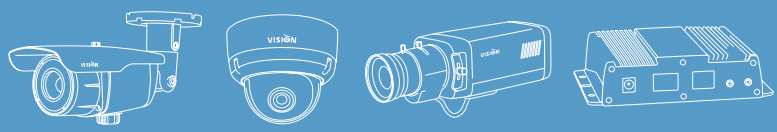
VISION
www.visionipvideo.com
www.visionhitech.co.kr

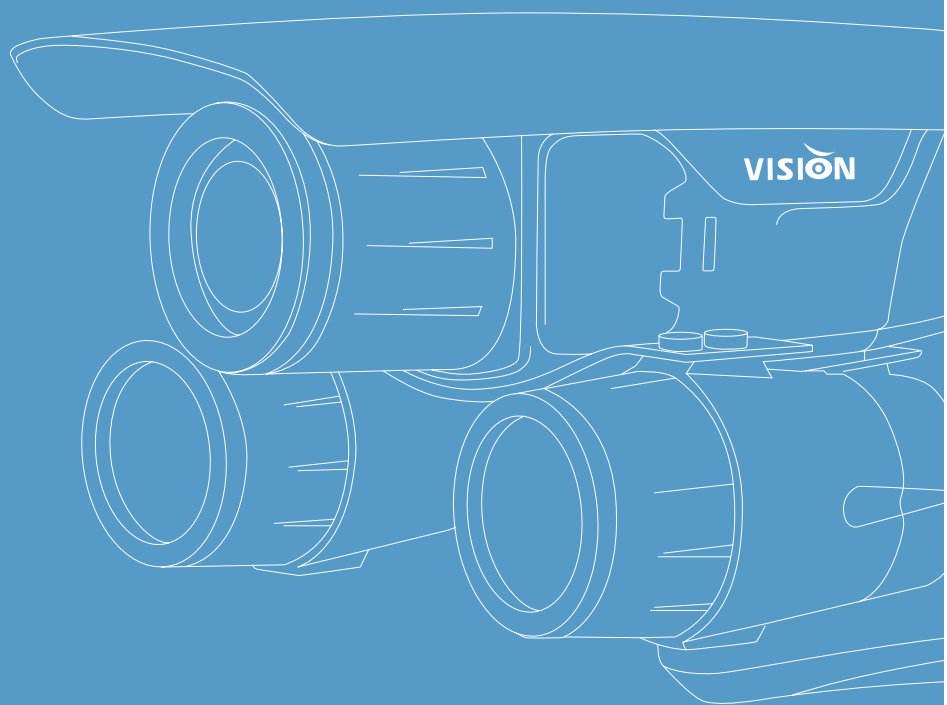
VISIONHITECH

# Vision Security System

Catalog 2012

- IP Networks
- HD-cctv
- High Quality Analog
- Poc
- Illuminator & Accessory





Visionhitech Co., Ltd. declares that security should never be compromised and we will dedicate ourselves to No quality events, Defect-free product launches, Low non-conformance costs, Highest quality image in the market, and More business due to satisfied customers. In order to comply with these targets, we are pursuing change and innovation in all aspects of People, Products, Process and Production every day.

# Company Introduction

## ■ Company position

Founded in 1997, Visionhitech Co., Ltd. has been focused itself for the development of video surveillance technology all the way through today. It has been achieved a lot of monumental technical break-through and innovative solutions with more than 50 patented core technologies released so far. Its products are made with the highest quality materials, providing exceptional reliability and durability, and are backed up by a company dedicated to customer service and support. We strive to earn customer loyalty, and for the Vision brand to be synonymous with premium quality and value.

## ■ Company Milestone

Based on the full product line-ups for IP camera and HD CCTV camera & System as well as Value added Analog cameras & system, Visionhitech is providing Total Video Surveillance solutions. Its own Smart Focus Technology unveils and has been adapted to all ranges of video surveillance cameras to help the easy installation. Visionhitech dedicates itself to providing customer-oriented solutions in one step earlier than competitors and until the time all mankind comes to safe and peaceful, our technical innovation will be continued.

## ■ Product design philosophy

We always unveil new technology era with unique and customer-oriented designs. Magnetic Anti-Vandal and Ultra Slim domes are the world's first and best solutions and help the easy installation which lessens the installation and the maintenance cost considerably.

## ■ R&D ability

More than 30 members of high-rank technical brains with in-house R&D, ranged in imaging board, IP web server, HD CCTV modulation, Software and Applications develop the products based on customer feedback and needs.

## ■ Sales and marketing

Diverse product portfolio and sincere customer service expand the strategic partnership with OEM manufacturers, distributors and system integrators which have capability and potential to promote and distribute our products in the global and their local market. Through more effective and efficient communication channel, we increase the communication level and understand the need of our partners.

## ■ Manufacturing

We are producing all Video Surveillance Equipment in South Korea and the capacity is 50,000pcs/Month.
These activities are severely controlled by ISO9001 Quality Management System and secure JIT(Just in Time). Picking quality vendors, Strict Incoming/Production/Outgoing QC guarantee its reliability. Our quality goal is to achieve 100% Customer Satisfaction, 0% Defect rate and On Time Delivery.

## ■ Service and support

Visionhitech guarantees a quick delivery support and lower return rate. According to market goes IP Networks, tech support is emerging the most important factor in the Service and Support. High-rank technical brains and Sales professionals are always with you.

## ■ Affiliations

Visionhitech is a member of ONVIF and HDcctv Alliance.

# Product Quick Guide - IP Networks

| Type | Image | Model no. | Imager | Video Compression | Max. Resolution | Max. Frame Rate | Lens | Min. Illumination & IR Beam Distance | Day & Night | Noise Reduction | Audio Direction | Audio Codec | Power Source | Motion Detection | Alarm Notification | Local Storage | Environment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Speed Dome Camera |  | VPD2200SM2i | 1/2.8" Sony 2MP Progressive Scan CMOS | H.264 & M-JPEG | 1920x1080 | H.264 : 15fps/1080p, M-JPEG : 15fps/VGA | 20x(f4.7~94mm) | [color]1CR off : 1.7Lux 1CR on : 0.3Lux [B/W] : 1CR off : 0.5Lux 1CR off : 0.095Lux | Auto(ICR), Color, B/W | 2D | Full Duplex | G.711 | PoE 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| |  | VPD330i-H | 1/4" Sony Color Vertical Double Density CCD | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | 33x(f3.5~115.5mm) | 0.7Lux/F1.6(Color), 0.002lux(Sens-up), 0.06Lux(B/W) | Auto(ICR), Color, B/W | 2D/3D | Full Duplex | G.711 | PoE(IEEE802.3at), 12VDC | Motion Vector Based | Sensor, Motion | N.A. | Indoor |
| |  | VPD330i-O | 1/4" Sony Color Vertical Double Density CCD | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | 33x(f3.5~115.5mm) | 0.7Lux/F1.6(Color), 0.002lux(Sens-up), 0.06Lux(B/W) | Auto(ICR), Color, B/W | 2D/3D | Full Duplex | G.711 | 24VAC | Motion Vector Based | Sensor, Motion | SD/SDHC Card Slot | IP 66 |
| |  | VPD370i-H | 1/4" Sony Color Vertical Double Density CCD | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | 37x(f3.5~129.5mm) | 0.7Lux/F1.6(Color), 0.002lux(Sens-up), 0.06Lux(B/W) | Auto(ICR), Color, B/W | 2D/3D | Full Duplex | G.711 | PoE(IEEE802.3at), 12VDC | Motion Vector Based | Sensor, Motion | N.A. | Indoor |
| |  | VPD370i-O | 1/4" Sony Color Vertical Double Density CCD | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | 37x(f3.5~129.5mm) | 0.7Lux/F1.6(Color), 0.002lux(Sens-up), 0.06Lux(B/W) | Auto(ICR), Color, B/W | 2D/3D | Full Duplex | G.711 | 24VAC | Motion Vector Based | Sensor, Motion | SD/SDHC Card Slot | IP 66 |
| IR Outdoor Camera |  | VA100SM3T-12SF | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 2048x1536 | H.264 : 20fps/3MP, 30fps/1080p, M-JPEG : 30fps/QVGA | 12x(f5~60mm) Smart Focus | 0 Lux, 80m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | 24VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| |  | VA100SM3T-12SF | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 2048x1536 | H.264 : 20fps/3MP, 30fps/1080p, M-JPEG : 30fps/QVGA | 12x(f5~60mm) Smart Focus | 0 Lux, 70m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | 24VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| |  | VN17XM3-x12AF | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 1920x1080 | H.264 : 15fps/1080p, M-JPEG : 15fps/VGA | 12x(f5~60mm) Auto Focus | 0 Lux, 30m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | 12VDC | Motion Vector Based | Sensor, Motion | N.A. | IP 67 |
| |  | VN17XMF-x12AF | 1/3" Sony 1.3MP Progressive Scan CMOS | H.264 & M-JPEG | 1280x720 | H.264 : 30fps/720p, M-JPEG : 15fps/VGA | 12x(f5~60mm) Auto Focus | 0 Lux, 30m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | 12VDC | Motion Vector Based | Sensor, Motion | N.A. | IP 67 |
| |  | VN17XM3Ti | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 2048x1536 | H.264 : 20fps/3MP, 30fps/1080p, M-JPEG : 30fps/QVGA | 12x(f5~60mm) Smart Focus | 0 Lux, 30m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3at), 12VDC | Motion Vector Based | Sensor, Motion | N.A. | IP 67 |

# Product Quick Guide - IP Networks

| Type | Image | Model no. | Imager | Video Compression | Max. Resolution | Max. Frame Rate | Lens | Min. Illumination & IR Beam Distance | Day & Night | Noise Reduction | Audio Direction | Audio Codec | Power Source | Motion Detection | Alarm Notification | Local Storage | Environment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IR Outdoor Camera |  | VN7XSM3i | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 1920x1080 | H.264 : 15fps/1080p, M-JPEG : 15fps/VGA | 12x(5~60mm) Motorized Zoom | 0 Lux, 30m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | N.A. | IP 67 |
| |  | VN7XSMI | 1/3" Sony 1.3MP Progressive Scan CMOS | H.264 & M-JPEG | 1280x720 | H.264 : 30fps/720p, M-JPEG : 15fps/VGA | 12x(5~60mm) Motorized Zoom | 0 Lux, 30m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | N.A. | IP 67 |
| |  | VN7XEH | 1/3" Sony 960H Ex-view HAD CCD II | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | 4x(2.8~12mm) Motorized Zoom | 0 Lux, 30m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | N.A. | IP 67 |
| |  | VN6XSM3Ti | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 2048x1536 | H.264 : 20fps/3MP, 30fps/1080p, M-JPEG : 30fps/QVGA | 3x(2.8~10mm) Smart Focus | 0 Lux, 20m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | N.A. | IP 67 |
| |  | VN6XSM3i | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 1920x1080 | H.264 : 15fps/1080p, M-JPEG : 15fps/VGA | 3x(2.8~10mm) Motorized Zoom | 0 Lux, 20m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | N.A. | IP 67 |
| |  | VN6XSMI | 1/3" Sony 1.3MP Progressive Scan CMOS | H.264 & M-JPEG | 1280x720 | H.264 : 30fps/720p, M-JPEG : 15fps/VGA | 3.7mm | 0 Lux, 20m | Electronic | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | N.A. | IP 67 |
| |  | VN6XEH | 1/3" Sony 960H Ex-view HAD CCD II | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | 4x(2.8~12mm) Motorized Zoom | 0 Lux, 20m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | N.A. | IP 67 |
| Vandal Dome Camera |  | VDA110SM3-IR | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 1920x1080 | H.264 : 15fps/1080p, M-JPEG : 15fps/VGA | 2.8~10mm | 0 Lux, 30m | Auto(ICR) | 2D | N.A. | N.A. | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| |  | VDA110SMI-IR | 1/3" Sony 1.3MP Progressive Scan CMOS | H.264 & M-JPEG | 1280x720 | H.264 : 30fps/720p, M-JPEG : 15fps/VGA | 3.5~16mm | 0 Lux, 30m | Auto(ICR) | 2D | N.A. | N.A. | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| |  | VDA110EHI-IR | 1/3" Sony 960H Ex-view HAD CCD II | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | 3.3~12mm | 0 Lux, 30m | Auto(ICR) | 2D | N.A. | N.A. | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |

# Product Quick Guide - IP Networks

| Type | Image | Model no. | Imager | Video Compression | Max. Resolution | Max. Frame Rate | Lens | Min. Illumination & IR Beam Distance | Day & Night | Noise Reduction | Audio Direction | Audio Codec | Power Source | Motion Detection | Alarm Notification | Local Storage | Environment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vandal Dome Camera |  | VDA1103M3i | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 1920x1080 | H.264 : 15fps/1080p, M-JPEG : 15fps/VGA | 2.8~10mm | 1.0Lux w/DSS 2x(30IRE, AGC On) | Auto(ICR), Color, B/W | 2D | N.A. | N.A. | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| |  | VDA1103Mi | 1/3" Sony 1.3MP Progressive Scan CMOS | H.264 & M-JPEG | 1280x720 | H.264 : 30fps/720p, M-JPEG : 15fps/VGA | 3.5~16mm | 0.5Lux w/o DSS(30IRE, AGC On) | Auto(ICR), Color, B/W | 2D | N.A. | N.A. | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| |  | VDA1110Hi | 1/3" Sony 960H Ex-view HAD CCD II | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | 3.3~12mm | 0.1Lux | Auto(ICR), Color, B/W | 2D | N.A. | N.A. | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| |  | VDA1003M3T-IR | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 2048x1536 | H.264 : 20fps/3MP, 30fps/1080p, M-JPEG : 30fps/QVGA | 2.8~10mm Smart Focus | 0 Lux, 30m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| |  | VDA1100EH-IR | 1/3" Sony 960H Ex-view HAD CCD II | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | 2.8~12mm | 0 Lux, 30m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| |  | VDA1003M3Ti | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 2048x1536 | H.264 : 20fps/3MP, 30fps/1080p, M-JPEG : 30fps/QVGA | 2.8~10mm Smart Focus | 1.0Lux w/DSS 2x(30IRE, AGC On) | Auto(ICR), Color, B/W | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| |  | VDA1100EHi | 1/3" Sony 960H Ex-view HAD CCD II | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | 2.8~12mm | 0.1Lux | Auto(ICR), Color, B/W | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| |  | VD1002M3T-IR | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 2048x1536 | H.264 : 20fps/3MP, 30fps/1080p, M-JPEG : 30fps/QVGA | 2.8~10mm | 0 Lux, 30m | Auto(ICR)/ Electronics | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | Indoor |

| Type | Image | Model no. | Imager | Video Compression | Max. Resolution | Max. Frame Rate | Lens | Min. Illumination & IR Beam Distance | Day & Night | Noise Reduction | Audio Direction | Audio Codec | Power Source | Motion Detection | Alarm Notification | Local Storage | Environment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Indoor Dome Camera |  | VD102EHi-IR | 1/3" Sony 960H Ex-view HAD CCD II | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | 2.8~12mm | 0 Lux, 30m | Auto(ICR) | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | Indoor |
| |  | VD102SM3Ti | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 2048x1536 | H.264 : 20fps/3MP, 30fps/1080p, M-JPEG : 30fps/QVGA | 2.8~10mm | 1.0Lux w/DSS 2x(30IRE, AGC On) | Auto(ICR), Color, B/W | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | Indoor |
| |  | VD102EHi | 1/3" Sony 960H Ex-view HAD CCD II | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | 2.8~12mm/ 3.6mm | 0.1Lux | Auto(ICR), Color, B/W | 2D | Full Duplex(Option) | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | Indoor |
| |  | VD101SMi | 1/3" Sony 1.3MP Progressive Scan CMOS | H.264 & M-JPEG | 1280x720 | H.264 : 30fps/720p, M-JPEG : 15fps/VGA | 3.7mm | 0.5Lux w/o DSS(30IRE, AGC On) | Auto(ICR), Color, B/W | 2D | N.A. | N.A. | 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | Indoor |
| Box Camera |  | VC58SM3Ti-ICR | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 2048x1536 | H.264 : 20fps/3MP, 30fps/1080p, M-JPEG : 30fps/QVGA | N.A. | 1.0Lux w/DSS 2x(30IRE, AGC On) | Auto(ICR) | 2D | Full Duplex | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | SD/SDHC Card Slot | Indoor |
| |  | VC58SM3i-ICR | 1/2.8" Sony 3MP Progressive Scan CMOS | H.264 & M-JPEG | 1920x1080 | H.264 : 15fps/1080p, M-JPEG : 15fps/VGA | N.A. | 1.0Lux w/DSS 2x(30IRE, AGC On) | Auto(ICR) | 2D | Full Duplex | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | SD/SDHC Card Slot | Indoor |
| |  | VC58SMi-ICR | 1/3" Sony 1.3MP Progressive Scan CMOS | H.264 & M-JPEG | 1280x720 | H.264 : 30fps/720p, M-JPEG : 15fps/VGA | N.A. | 0.5Lux w/o DSS(30IRE, AGC On) | Auto(ICR) | 2D | Full Duplex | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | SD/SDHC Card Slot | Indoor |
| |  | VC58EHi-ICR | 1/3" Sony 960H Ex-view HAD CCD II | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | N.A. | 0.1Lux | Auto(ICR) | 2D | Full Duplex | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | SD/SDHC Card Slot | Indoor |
| Slim Dome Camera |  | VDA50SMi | 1/3" Sony 1.3MP Progressive Scan CMOS | H.264 & M-JPEG | 1280x720 | H.264 : 30fps/720p, M-JPEG : 15fps/VGA | N.A. | 0.5Lux w/o DSS(30IRE, AGC On) | Electronic | 2D | N.A. | N.A. | PoE(IEEE802.3af) or 12VDC | Motion Vector Based | Sensor, Motion | Micro SD/SDHC Slot | IP 66 |
| Network Video Server |  | NVS102 | N. A. | H.264 & M-JPEG | D1 | H.264 : 25, 30fps/D1, M-JPEG : 25, 30fps/D1 | N.A. | N.A. | N.A. | N.A. | Full Duplex | G.711 | PoE(IEEE802.3af), 12VDC | Motion Vector Based | Sensor, Motion | SD/SDHC Card Slot | Indoor |

| Type | Image | Model no. | Imager | Resolution | Lens | Min. Illumination | HD-SDI Standard | WDR | DNR | LED | IR Beam Distance | RS-485 Interface | Power | Environment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IR Outdoor Camera |  | VA100FHD-VL60 | 1/2.8" Sony 3MP Progressive Scan CMOS | 1080p 60/50/30/25/59.94/29.97<br>1080i 60/50/59.94<br>720p 60/50/30/25/59.94/29.97 | 12x(5~60mm) Smart Focus | 0Lux | SMPTE 424M | ATR | 2D/3D | Hi-Power 850nm, 6ea+28ea | 70m | Yes | 24VDC | IP 66 |
| |  | VN7XFHD | 1/2.8" Sony 3MP Progressive Scan CMOS | 1080p 60/50/30/25/59.94/29.97<br>1080i 60/50/59.94<br>720p 60/50/30/25/59.94/29.97 | 12x(5~60mm) Motorized Zoom | 0Lux | SMPTE 424M | ATR | 2D/3D | Hi-Power 850nm, 14ea | 30m | Yes | 12VDC | IP 67 |
| |  | VN7XHD | 1/2.8" Sony 3MP Progressive Scan CMOS | 720p 60/50/30/25 | 12x(5~60mm) Motorized Zoom | 0Lux | SMPTE 292M | N.A. | 2D | Hi-Power 850nm, 14ea | 30m | Yes | 12VDC | IP 67 |
| Bullet Camera |  | VN40SFHD-IR | 1/2.9" Sony 2MP Progressive Scan CMOS | 1080p 30fps<br>720p 60fps | 3.7mm | 0Lux | SMPTE 292M | ACCE | 2D/3D | 850nm, 14ea | 10m | Yes | 12VDC | Indoor |
| |  | VN40SFHD | 1/2.9" Sony 2MP Progressive Scan CMOS | 1080p 30fps<br>720p 60fps | 3.7mm | 0.5Lux | SMPTE 292M | ACCE | 2D/3D | N.A. | N.A. | Yes | 12VDC | Indoor |
| Vandal Dome Camera |  | VDA110FHD-IR | 1/2.8" Sony 3MP Progressive Scan CMOS | 1080p 60/50/30/25/59.94/29.97<br>1080i 60/50/59.94<br>720p 60/50/30/25/59.94/29.97 | 2.8~10mm | 0Lux | SMPTE 424M | ATR | 2D | 850nm, 21ea | 20m | Yes | 12VDC | IP 66 |
| |  | VDA110HD-IR | 1/3" Sony 1.3MP Progressive Scan CMOS | 720p 60/50/30/25 | 3.5~16mm | 0Lux | SMPTE 292M | N.A. | 2D | 850nm, 21ea | 20m | Yes | 12VDC | IP 66 |
| |  | VDA110FHD | 1/2.8" Sony 3MP Progressive Scan CMOS | 1080p 60/50/30/25/59.94/29.97<br>1080i 60/50/59.94<br>720p 60/50/30/25/59.94/29.97 | 2.8~10mm | 1.0Lux | SMPTE 424M | ATR | 2D | N.A. | N.A. | Yes | 12VDC | IP 66 |
| |  | VDA110HD | 1/3" Sony 1.3MP Progressive Scan CMOS | 720p 60/50/30/25 | 3.5~16mm | 0.5Lux | SMPTE 292M | N.A. | 2D | N.A. | N.A. | Yes | 12VDC | IP 66 |
| |  | VDA100SFHD-IR | 1/2.9" Sony 2MP Progressive Scan CMOS | 1080p 30fps<br>720p 60fps | 2.8~10mm Motorized Zoom | 0Lux | SMPTE 292M | ACCE | 2D/3D | 850nm, 28ea | 20m | Yes | 12VDC | IP 66 |
| |  | VDA100SFHD-LIR | 1/2.9" Sony 2MP Progressive Scan CMOS | 1080p 30fps<br>720p 60fps | 2.8~10mm Motorized Zoom | 0Lux | SMPTE 292M | ACCE | 2D/3D | 850nm, 28ea | 20m | Yes | 12VDC /24VAC | IP 66 |
| |  | VDA100SFHD | 1/2.9" Sony 2MP Progressive Scan CMOS | 1080p 30fps<br>720p 60fps | 2.8~10mm Motorized Zoom | 0.5Lux | SMPTE 292M | ACCE | 2D/3D | N.A. | N.A. | Yes | 12VDC | IP 66 |
| |  | VDA100SFHD-L | 1/2.9" Sony 2MP Progressive Scan CMOS | 1080p 30fps<br>720p 60fps | 2.8~10mm Motorized Zoom | 0.5Lux | SMPTE 292M | ACCE | 2D/3D | N.A. | N.A. | Yes | 12VDC /24VAC | IP 66 |
| Indoor Dome Camera |  | VD102SFHD-IR | 1/2.9" Sony 2MP Progressive Scan CMOS | 1080p 30fps<br>720p 60fps | 2.8~10mm | 0Lux | SMPTE 292M | ACCE | 2D/3D | 850nm, 28ea | 20m | N.A. | 12VDC | Indoor |
| |  | VD102SFHD | 1/2.9" Sony 2MP Progressive Scan CMOS | 1080p 30fps<br>720p 60fps | 2.8~10mm | 0.5Lux | SMPTE 292M | ACCE | 2D/3D | N.A. | N.A. | N.A. | 12VDC | Indoor |

| Type | Image | Model no. | Imager | Resolution | Lens | Min. Illumination | HD-SDI Standard | WDR | DNR | LED | IR Beam Distance | RS-485 Interface | Power | Environment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mini Dome Camera |  | VD70SFHD | 1/2.9" Sony 2MP Progressive Scan CMOS | 1080p 30fps<br>720p 60fps | 3.7mm | 0.5Lux | SMPTE 292M | ACCE | 2D/3D | N.A. | N.A. | Yes | 12VDC | IP 66 |
| Box Camera |  | VC58FHD | 1/2.8" Sony 3MP Progressive Scan CMOS | 1080p 60/50/30/25/59.94/29.97<br>1080i 60/50/59.94<br>720p 60/50/30/25/59.94/29.97 | N.A. | 1.0Lux | SMPTE 424M | ATR | 2D | N.A. | N.A. | Yes | 12VDC | Indoor |
| |  | VC58FHD-24 | 1/2.8" Sony 3MP Progressive Scan CMOS | 1080p 60/50/30/25/59.94/29.97<br>1080i 60/50/59.94<br>720p 60/50/30/25/59.94/29.97 | N.A. | 1.0Lux | SMPTE 424M | ATR | 2D | N.A. | N.A. | Yes | 12VDC/ 24VAC | Indoor |
| |  | VC58SFHD | 1/2.9" Sony 2MP Progressive Scan CMOS | 1080p 30fps<br>720p 60fps | N.A. | 0.5Lux | SMPTE 292M | ACCE | 2D/3D | N.A. | N.A. | Yes | 12VDC | Indoor |
| |  | VC58HD | 1/3" Sony 1.3MP Progressive Scan CMOS | 720p 60/50/30/25 | N.A. | 0.5Lux | SMPTE 292M | N.A. | 2D | N.A. | N.A. | Yes | 12VDC | Indoor |

| Type | Image | Model no. | O/S | Video Compression | Recording | Video In | Video Out | Audio (Input/Output) | Sensor/Alarm (Input/Output) | Network | Storage (Capacity) | Power |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HD DVR |  | VHD400 | Embedded Linux | H.264 | 60fps – 720p only or 30fps – 1080p only | Channel : 4CH, Transmission : HD-SDI Standard | Main Display : HDMI, Resolution : 1920x1080p, 1920x1080i, 1280x720p, 1440x900, Sub-display : 1 x VGA | 4/1. | 4/1. | Type : Static IP, DHCP, DDNS<br>Base-T : 10/100/1000 Mbps<br>Browser : CMS, Web viewer, Smart phone(iPhone, Android, iPad) | Max. 12TB (3TB x 4HDDs) | AC100~220V (50Hz~60Hz) |
| |  | VHD400P | Embedded Linux | H.264 | 240fps – 720p only or 120fps – 1080p only | Channel : 4CH, Transmission : HD-SDI Standard | Main Display : HDMI, Resolution : 1920x1080p, 1920x1080i, 1280x720p, 1440x900, Sub-display : 1 x VGA Spot : 1 x HDMI, 1 x HD-SDI | 4/1. | 4/1. | Type : Static IP, DHCP, DDNS<br>Base-T : 10/100/1000 Mbps<br>Browser : CMS, Web viewer, Smart phone(iPhone, Android, iPad) | Max. 24TB (3TB x 8HDDs) | AC100~220V (50Hz~60Hz) |
| |  | VHD800 | Embedded Linux | H.264 | 240fps – 720p only or 120fps – 1080p only | Channel : 8CH, Transmission : HD-SDI Standard | Main Display : HDMI, Resolution : 1920x1080p, 1920x1080i, 1280x720p, 1440x900, Sub-display : 1 x VGA Spot : 1 x HDMI, 1 x HD-SDI | 8/1. | 8/2. | Type : Static IP, DHCP, DDNS<br>Base-T : 10/100/1001 Mbps<br>Browser : CMS, Web viewer, Smart phone(iPhone, Android, iPad) | Max. 24TB (3TB x 8HDDs) | AC100~220V (50Hz~60Hz) |
| |  | VHD1600 | Embedded Linux | H.264 | 240fps – 720p only or 120fps – 1080p only | Channel : 16CH, Transmission : HD-SDI Standard | Main Display : HDMI, Resolution : 1920x1080p, 1920x1080i, 1280x720p, 1440x900, Sub-display : 1 x VGA Spot : 1 x HDMI, 1 x HD-SDI | 16/1. | 16/2. | Type : Static IP, DHCP, DDNS<br>Base-T : 10/100/1001 Mbps<br>Browser : CMS, Web viewer, Smart phone(iPhone, Android, iPad) | Max. 24TB (3TB x 8HDDs) | AC100~220V (50Hz~60Hz) |
| Repeater |  | VRP102 | Repeater(1:2), 100m Transmission, 1 x HD-SDI in/ 2 x HD-SDI out | | | | | | | | | |
| Converter |  | VRP102 HDMI | Converter(1:2), 100m Transmission, 1 x HD-SDI in/ 1 x HD-SDI out & 1 x HDMI out | | | | | | | | | |

# Product Quick Guide - Analog Camera

| Type | Image | Model no. | Imager | H. Resolution | Lens | M. Illumination | DN | LED | IR Beam distance | Smart IR | WDR | DNR | Sens-up/DSS | Motion Detection | Privacy | DIS | Digital Zoom | Digital Pan/Tilt | OSD Button | RS-485 | 3-Axis | Power | Environment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Speed Dome Camera | | VPD330WD-I | 1/4" Sony Color Vertical Double Density CCD | 550TVL(D)/680TVL(N) | 33x, f3.5~115.5mm A/F | 0.7Lux(Color), 0.002Lux (Sens-up), 0.06Lux(B/W) | ICR | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 256x | Yes | 8 zones | Yes | 12x | N.A. | N.A. | Pelco-D/P | N.A. | 24VAC | Indoor |
| | | VPD330WD-O | 1/4" Sony Color Vertical Double Density CCD | 550TVL(D)/680TVL(N) | 33x, f3.5~115.5mm A/F | 0.7Lux(Color), 0.002Lux (Sens-up), 0.06Lux(B/W) | ICR | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 256x | Yes | 8 zones | Yes | 12x | N.A. | N.A. | Pelco-D/P | N.A. | 24VAC | IP66 |
| | | VPD370WD-I | 1/4" Sony Color Vertical Double Density CCD | 550TVL(D)/680TVL(N) | 37x, f3.5~129.5mm A/F | 0.7Lux(Color), 0.002Lux (Sens-up), 0.06Lux(B/W) | ICR | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 256x | Yes | 8 zones | Yes | 12x | N.A. | N.A. | Pelco-D/P | N.A. | 24VAC | Indoor. |
| | | VPD370WD-O | 1/4" Sony Color Vertical Double Density CCD | 550TVL(D)/680TVL(N) | 37x, f3.5~129.5mm A/F | 0.7Lux(Color), 0.002Lux (Sens-up), 0.06Lux(B/W) | ICR | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 256x | Yes | 8 zones | Yes | 12x | N.A. | N.A. | Pelco-D/P | N.A. | 24VAC | IP66 |
| IR Outdoor Camera | | VA332WD-VL60 | 1/4" Sony Color Vertical Double Density CCD | 550TVL(D)/680TVL(N) | 33x, f3.5~115.5mm A/F | 0 Lux | ICR | 850nm H-Power 12ea+28ea | 120m | N.A. | sWDR | 3D | Sens-up 256x | Yes | 8 zones | Yes | 12x | N.A. | N.A. | Pelco-D | N.A. | 24VDC | IP66 |
| | | VA372WD-VL60 | 1/4" Sony Color Vertical Double Density CCD | 550TVL(D)/680TVL(N) | 37x, f3.5~129.5mm A/F | 0 Lux | ICR | 850nm H-Power 12ea+28ea | 120m | N.A. | sWDR | 3D | Sens-up 256x | Yes | 8 zones | Yes | 12x | N.A. | N.A. | Pelco-D | N.A. | 24VDC | IP66 |
| | | VA102E-VL60 | 1/3" Sony 960H Double Scan Super HAD CCD II/Effio | 650TVL(D)/700TVL(N) | 7.5~50mm DC Iris | 0 Lux | ICR | 850nm H-Power 12ea+28ea | 120m | Yes | sWDR | 2D/3D | DSS 160x | 4 zones | 4 zones | N.A. | 3x | N.A. | Yes | Pelco-D | N.A. | 24VDC | IP66 |
| | | VA102E-VL60W | 1/3" Sony 960H Double Scan Super HAD CCD II/Effio | 650TVL(D)/700TVL(N) | 7.5~50mm DC Iris | 0 Lux | ICR | 850nm H+Power :12ea, White H+Power :12ea | 100m | Yes | sWDR | 2D/3D | DSS 160x | 4 zones | 4 zones | N.A. | 3x | N.A. | Yes | Pelco-D | N.A. | 24VDC | IP66 |
| | | VN80DZ-10 | 1/4" Sony Super HAD CCD | 500TVL(D)/570TVL(N) | 10x, f3.8~38mm A/F | 0 Lux | ICR | 850nm, 44ea | 70m | N.A. | N.A. | N.A. | Sens-up 128x | 8 zones | Yes | N.A. | 10x | N.A. | N.A. | Pelco-D | Yes | 24VDC/24VAC | IP67 |
| | | VN80S-V50L | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 4~9mm/9~22/ 5~50mm DC Iris | 0 Lux | ICR | 850nm H-Power 20ea | 70m | Yes | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | N.A | Yes | Pelco-D | Yes | 12VDC, 12VDC/24VAC | IP67 |
| | | VN7XEH-V50L | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 2.8~12mm /5~50mm DC Iris | 0 Lux | ICR | 850nm H-Power 14ea | 50m | Yes | ATR | 2D | N/A | N.A. | 4 zones | N.A. | N.A | N.A. | Yes | Pelco-D | Yes | 12VDC, 12VDC/24VAC | IP67 |
| | | VN7XS-SF | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 2.8~12mm /5~50mm Motorized | 0 Lux | ICR | 850nm H-Power 14ea | 50m | Yes | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D | Yes | 12VDC, 12VDC/24VAC | IP67 |
| | | VN70 II S-V50L | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 2.8~12mm /5~50mm DC Iris | 0 Lux | ICR | 850nm H-Power 14ea | 50m | Yes | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D | Yes | 12VDC, 12VDC/24VAC | IP67 |
| | | VN70 II EH-V50L | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 2.8~12mm /5~50mm DC Iris | 0 Lux | ICR | 850nm H-Power 14ea | 50m | Yes | ATR | 2D | N.A. | N.A. | 4 zones | N.A. | N.A. | N.A. | Yes | Pelco-D | Yes | 12VDC, 12VDC/24VAC | IP67 |
| | | VN820 | 1/3" WDR Digital Imaging device(Pixim Seawolf) | 690 HTVL Effective | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 35ea | 30m | Yes | sWDR | 2D/3D | DSS 32x | N.A. | 6 zones | N.A. | 8x | Yes | Yes | Pelco-D | Yes | 12VDC/24VAC | IP67 |
| | | VN300-HB | 1/3" Sony Super HAD CCD | 400TVL(D)/420TVL(N) | 3.6mm | 0 Lux | Electronic | 850nm, 63ea | 50m | Yes | N.A. | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC, 12VDC/24VAC | IP67 |
| | | VN310-HB | 1/3" Sony Super HAD CCD | 400TVL(D)/420TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 35ea | 35m | Yes | D-WDR | 2D | N.A. | Yes | 8 zones | N.A. | N.A. | N.A. | Yes | N.A. | Pelco-D/P | 12VDC, 12VDC/24VAC | IP67 |
| | | VN300-IBH | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 3.6mm | 0 Lux | Electronic | 850nm, 63ea | 50m | Yes | N.A. | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC, 12VDC/24VAC | IP67 |

# Product Quick Guide - Analog Camera

| Type | Image | Model no. | Imager | H. Resolution | Lens | M. Illumination | DN | LED | IR Beam distance | Smart IR | WDR | DNR | Sens-up/DSS | Motion Detection | Privacy | DIS | Digital Zoom | Digital Pan/ Tilt | OSD Button | RS-485 | 3-Axis | Power | Environment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IR Outdoor Camera | | VN310HBH | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 35ea | 35m | Yes | D-WDR | 2D | Yes | N.A. | 8 zones | N.A. | N.A. | N.A. | Yes | Pelco-D/P | Yes | 12VDC, 12/VDC/24VAC | IP67 |
| | | VN6XS-SF | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 2.8~12mm /5~50mm Motorized | 0 Lux | ICR | 850nm, 21ea | 30m | Yes | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D | Yes | 12VDC, 12/VDC/24VAC | IP67 |
| | | VN6XEH-V12IR | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 2.8~12mm DC Iris/3.6mm | 0 Lux | ICR | 850nm, 21ea | 30m | Yes | ATR | 2D | N.A | N.A. | 4 zones | N.A. | N.A | N.A. | Yes | Pelco-D | Yes | 12VDC, 12/VDC/24VAC | IP67 |
| | | VN220 | 1/3" MDR Digital Imaging device(Pixim Seavoil) | 690 HTVL Effective | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 21ea | 20m | Yes | sWDR | 2D/3D | DSS 32x | N.A. | 6 zones | N.A. | 8x | Yes | Yes | Pelco-D | Yes | 12VDC/24VAC | IP67 |
| | | VN200HB | 1/3" Sony Super HAD CCD | 400TVL(D)/420TVL(N) | 3.6mm | 0 Lux | Electronic | 850nm, 42ea | 30m | Yes | N.A. | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC, 12/VDC/24VAC | IP67 |
| | | VN210HB | 1/3" Sony Super HAD CCD | 400TVL(D)/420TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 21ea | 20m | Yes | D-WDR | 2D | N.A. | 8 zones | 8 zones | N.A. | N.A. | N.A. | Yes | Pelco-D/P | Yes | 12VDC, 12/VDC/24VAC | IP67 |
| | | VN200HBH | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 3.6mm | 0 Lux | Electronic | 850nm, 42ea | 30m | N.A. | N.A. | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC, 12/VDC/24VAC | IP67 |
| | | VN210HBH | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 21ea | 20m | Yes | D-WDR | 2D | N.A. | Yes | 8 zones | N.A. | N.A. | N.A. | Yes | Pelco-D/P | Yes | 12VDC, 12/VDC/24VAC | IP67 |
| | | VN5XEH | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.6mm | 0 Lux | Electronic | 850nm, 21ea | 15m | N.A. | ATR | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP67 |
| | | VN5XHB | 1/3" Sony Super HAD CCD | 400TVL(D)/420TVL(N) | 3.6mm | 0 Lux | Electronic | 850nm, 21ea | 15m | Yes | N.A. | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP67 |
| | | VN5XHBH | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 3.6mm | 0 Lux | Electronic | 850nm, 21ea | 15m | Yes | N.A. | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP67 |
| Vandal Dome Camera | | VDB106S-SF | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 2.8~12mm Motorized | 0 Lux | ICR | 850nm Hi-Power 14ea | 30m | Yes | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D/P | Yes | 12VDC, 12/VDC/24VAC | IP66 |
| | | VDA110S-V12LR | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 21ea | 30m | Yes | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D | Yes | 12VDC, 12/VDC/24VAC | IP66 |
| | | VDA110S-V12LDN | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 2.8~12mm DC Iris | 0.1Lux /0.0001Lux (Sens-up) | ICR | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D | Yes | 12VDC, 12/VDC/24VAC | IP66 |
| | | VDA110EH-V12LR | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.3~12mm DC Iris | 0 Lux | ICR | 850nm, 21ea | 30m | Yes | ATR | 2D | N.A | N.A. | 4 zones | N.A. | N.A. | N.A. | Yes | Pelco-D | Yes | 12VDC, 12/VDC/24VAC | IP66 |
| | | VDA110EH-V12LDN | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.3~12mm DC Iris | 0.1 Lux | ICR | N.A. | N.A. | N.A. | ATR | 2D | N.A | N.A. | 4 zones | N.A. | N.A. | N.A. | Yes | Pelco-D | Yes | 12VDC, 12/VDC/24VAC | IP66 |
| | | VDA100EP-V12LR | 1/3" Sony 960H Double Scan Super HAD CCD II/Effio-P | 650TVL(D)/700TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 35ea | 30m | Yes | sWDR+ ATR | 2D/3D | DSS 512x | 4 Zones | 4 Zones | Yes | 4x | Yes | Yes | Pelco-D | Yes | 12VDC, 12/VDC/24VAC | IP66 |
| | | VDA100EP-V12L | 1/3" Sony 960H Double Scan Super HAD CCD II/Effio-P | 650TVL(D)/700TVL(N) | 2.8~12mm DC Iris | 0.05Lux /0.00001Lux (DSS) | Electronic | N.A. | N.A. | N.A. | sWDR+ ATR | 2D/3D | DSS 512x | 4 Zones | 4 Zones | Yes | 4x | Yes | Yes | Pelco-D | Yes | 12VDC, 12/VDC/24VAC | IP66 |
| | | VDA100EH-V12LR | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 35ea | 30m | Yes | ATR | 2D | N.A | N.A. | 4 zones | N.A. | N.A. | N.A. | Yes | Pelco-D | Yes | 12VDC, 12/VDC/24VAC | IP66 |
| | | VDA100EH-V12LDN | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 2.8~12mm DC Iris | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A | N.A. | 4 zones | N.A. | N.A. | N.A. | Yes | Pelco-D | Yes | 12VDC, 12/VDC/24VAC | IP66 |
| | | VDA140S-V12IR | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 3.3~12mm DC Iris | 0 Lux | ICR | 850nm Hi-Power 10ea | 20m | Yes | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | N.A. | Pelco-D | Yes | 12VDC/24VAC | IP66 |

VISION

# Product Quick Guide - Analog Camera

| Type | Image | Model no. | Imager | H. Resolution | Lens | M. Illumination | DN | LED | IR Beam distance | Smart IR | WDR | DNR | Sens-up/DSS | Motion Detection | Privacy | DIS | Digital Zoom | Digital Pan/ Tilt | OSD Button | RS-485 | 3-Axis | Power | Environment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vandal Dome Camera | | VDA140EH-V12IR | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.3~12mm DC Iris | 0 Lux | ICR | 850nm HI-Power 10ea | 20m | Yes | ATR | 2D | N.A | N.A. | 4 zones | N.A. | N.A. | N.A. | N.A. | Pelco-D | Yes | 12VDC/24VAC | IP66 |
| | | VDA111S-V12DN | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 3.3~12mm DC Iris | 0.1Lux /0.0001Lux (Sens-up) | ICR | N.A. | N.A. | N.A. | sMDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D | Yes | 12VDC/24VAC | IP66 |
| | | VDA111EH-V12DN | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.3~12mm DC Iris | 0.1 Lux | ICR | N.A. | N.A. | N.A. | ATR | 2D | N.A | N.A. | 4 zones | N.A. | N.A. | N.A. | N.A. | Pelco-D | Yes | 12VDC/24VAC | IP66 |
| | | VDA111D88-V12DN | 1/3" WDR Digital Imaging device(Pixim Seawolf) | 690 HTVL Effective | 3.3~12mm DC Iris | 0.1Lux /0.003Lux (DSS) | ICR | N.A. | N.A. | N.A. | sMDR | 2D/3D | DSS 32x | N.A. | 6 zones | N.A. | 8x | Yes | N.A. | Pelco-D | Yes | 12VDC/24VAC | IP66 |
| Mini Vandal Dome Camera | | VD70EH-36R | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.6mm | 0 Lux | Electronic | 850nm, 14ea | 15m | Yes | ATR | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP66 |
| | | VD70D88-S | 1/3" WDR Digital Imaging device(Pixim Seawolf) | 690 HTVL Effective | 3.6mm | 0.1Lux /0.003Lux (DSS) | Electronic | N.A. | N.A. | N.A. | sMDR | 2D/3D | DSS 32x | N.A. | 6 zones | N.A. | 8x | Yes | N.A. | Pelco-D | Yes | 12VDC | IP66 |
| | | VD70D88-F | 1/3" WDR Digital Imaging device(Pixim Seawolf) | 690 HTVL Effective | 3.6mm | 0.1Lux /0.003Lux (DSS) | Electronic | N.A. | N.A. | N.A. | sMDR | 2D/3D | DSS 32x | N.A. | 6 zones | N.A. | 8x | Yes | N.A. | Pelco-D | Yes | 12VDC | IP66 |
| | | VD70EH-S | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.6mm | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP66 |
| | | VD70EH-F | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.6mm | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP66 |
| | | VDA30EH-B36 | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.6mm | Board 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP66 |
| | | VDA30EH-B37R | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.7mm | Pinhole 0 Lux | Electronic | 850nm, 7ea | 10m | Yes | ATR | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP66 |
| Indoor Dome Camera | | VD102HB-V12IR | 1/3" Sony Super HAD CCD | 400TVL(D)/420TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 28ea | 30m | Yes | D-WDR | 2D | N.A. | 4 Zones | 8 zones | N.A. | N.A. | N.A. | Yes | N.A. | Yes | 12VDC | Indoor |
| | | VD102HBH-V12IR | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 28ea | 30m | Yes | D-WDR | 2D | N.A. | 4 Zones | 8 zones | N.A. | N.A. | N.A. | Yes | N.A. | Yes | 12VDC | Indoor |
| | | VD102HB-V12 | 1/3" Sony Super HAD CCD | 400TVL(D)/420TVL(N) | 2.8~12mm DC Iris | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | D-WDR | 2D | N.A. | 4 Zones | 8 zones | N.A. | N.A. | N.A. | Yes | N.A. | Yes | 12VDC | Indoor |
| | | VD102HBH-V12 | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 2.8~12mm DC Iris | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | D-WDR | 2D | N.A. | 4 Zones | 8 zones | N.A. | N.A. | N.A. | Yes | N.A. | Yes | 12VDC | Indoor |
| | | VD101EP-V12LIR | 1/3" Sony 960H Double Scan Super HAD CCD II/Effio-P | 650TVL(D)/700TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 20ea | 20m | Yes | sMDR +ATR | 2D/3D | DSS 512x | 4 Zones | 4 Zones | Yes | 4x | Yes | Yes | Pelco-D | Yes | 12VDC, 12VDC/24VAC | Indoor |
| | | VD101EP-V12L | 1/3" Sony 960H Double Scan Super HAD CCD II/Effio-P | 650TVL(D)/700TVL(N) | 2.8~12mm DC Iris | 0.05Lux /0.00001Lux (DSS) | Electronic | N.A. | N.A. | N.A. | sMDR +ATR | 2D/3D | DSS 512x | 4 Zones | 4 Zones | Yes | 4x | Yes | Yes | Pelco-D | Yes | 12VDC, 12VDC/24VAC | Indoor |
| | | VD101S-V12LIR | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 20ea | 30m | Yes | sMDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D | Yes | 12VDC, 12VDC/24VAC | Indoor |
| | | VD101S-V12LDN | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 2.8~12mm DC Iris | 0.1Lux /0.0001Lux (Sens-up) | Electronic | N.A. | N.A. | N.A. | sMDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D | Yes | 12VDC, 12VDC/24VAC | Indoor |
| | | VD101EH-V12LIR | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm, 20ea | 30m | Yes | ATR | 2D | N.A | N.A. | 4 zones | N.A. | N.A. | N.A. | N.A. | Yes | Yes | 12VDC, 12VDC/24VAC | Indoor |
| | | VD101EH-V12LDN | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 2.8~12mm DC Iris | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A | N.A. | 4 zones | N.A. | N.A. | N.A. | N.A. | Yes | Yes | 12VDC, 12VDC/24VAC | Indoor |

# Product Quick Guide - Analog Camera

| Type | Image | Model no. | Imager | H. Resolution | Lens | M. Illumination | DN | LED | IR Beam distance | Smart IR | WDR | DNR | Sens-up/DSS | Motion Detection | Privacy | D/S | Digital Zoom | Digital Pan/ Tilt | OSD Button | RS-485 | 3-Axis | Power | Environment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Indoor Dome Camera | | VDS120S-V12DN | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 3.3~12mm DC Iris | 0.1Lux /0.0001Lux (Sens-up) | ICR | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D | Yes | 12VDC/24VAC | Indoor |
| | | VDS120EH-V12DN | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.3~12mm DC Iris | 0.1 Lux | ICR | N.A. | N.A. | N.A. | ATR | 2D | N.A | 8 zones | 4 zones | N.A. | N.A. | N.A. | Yes | Pelco-D | Yes | 12VDC/24VAC | Indoor |
| | | VDS120D88-VFA | 1/3" MDR Digital Imaging device(Pixim Seavoir) | 690 HTVL Effective | 3.3~12mm DC Iris | 0.1Lux /0.003Lux (DSS) | ICR | N.A. | N.A. | N.A. | sWDR | 2D/3D | DSS 32x | N.A. | 6 zones | N.A. | 8x | Yes | Yes | Pelco-D | Yes | 12VDC/24VAC | Indoor |
| Box Camera | | VC570D8 | 1/3" MDR Digital Imaging device(Pixim Seavoir) | 690 HTVL Effective | N.A. | 0.1Lux /0.003Lux (DSS) | ICR | N.A. | N.A. | N.A. | sWDR | 2D/3D | DSS 32x | N.A. | 6 zones | N.A. | 8x | Yes | Yes | Pelco-D | N.A. | 12VDC, 12VDC/24VAC | Indoor |
| | | VC56EP | 1/3" Sony 960H Double Scan Super HAD CCD II/Effio-P | 650TVL(D)/700TVL(N) | N.A. | 0.05Lux /0.0001Lux (DSS) | ICR | N.A. | N.A. | N.A. | sWDR | 2D/3D | DSS 512x | 4 Zones | 4 Zones | Yes | 4x | Yes | Yes | Pelco-D | N.A. | 12VDC, 12VDC/24VAC | Indoor |
| | | VC58S | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | N.A. | 0.1Lux /0.0001Lux (Sens-up) | ICR | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D | N.A. | 12VDC, 12VDC/24VAC | Indoor |
| | | VC59EH | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | N.A. | 0.1 Lux | ICR | N.A. | N.A. | N.A. | ATR | 2D | N.A | N.A. | 4 zones | N.A. | N.A. | N.A. | Yes | Pelco-D | N.A. | 12VDC, 12VDC/24VAC | Indoor |
| | | VC580D8 | 1/3" MDR Digital Imaging device(Pixim Seavoir) | 690 HTVL Effective | N.A. | 0.1Lux /0.003Lux (DSS) | ICR | N.A. | N.A. | N.A. | sWDR | 2D/3D | DSS 32x | N.A. | 6 zones | N.A. | 8x | Yes | Yes | Pelco-D | N.A. | 12VDC, 12VDC/24VAC | Indoor |
| | | VC56S | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | N.A. | 0.1Lux /0.0001Lux (Sens-up) | Electronic | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D | N.A. | 12VDC, 12VDC/24VAC | Indoor |
| | | VC56EH | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | N.A. | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A | N.A. | 4 zones | N.A. | N.A. | N.A. | Yes | Pelco-D | N.A. | 12VDC, 12VDC/24VAC | Indoor |
| | | VC34S | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | N.A. | 0.1Lux /0.0001Lux (Sens-up) | Electronic | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | Yes | Pelco-D | N.A. | 12VDC | Indoor |
| Bullet Camera | | VB60EH-VF | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 4~9mm/ 9~22mm | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP67 |
| | | VB30S | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 3.5~16mm | 0.1Lux /0.0001Lux (Sens-up) | Electronic | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | N.A. | Pelco-D | Yes | 12VDC | IP67 |
| | | VB30EH | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.5~16mm | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP67 |
| | | VB30EP | 1/3" Sony 960H Double Scan Super HAD CCD II/Effio-P | 650TVL(D)/700TVL(N) | 3.5~16mm | 0.05Lux | Electronic | N.A. | N.A. | N.A. | sWDR +ATR | 2D/3D | DSS 4x | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP67 |
| | | VB21EP | 1/3" Sony 960H Double Scan Super HAD CCD II/Effio-P | 650TVL(D)/700TVL(N) | 3.6mm Board/2.8mm, 3.7mm, 5.0mm Pinhole | 0.05Lux | Electronic | N.A. | N.A. | N.A. | sWDR +ATR | 2D/3D | DSS 4x | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP67(Option) |
| | | VB21S | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 3.6mm Board/2.8mm, 3.7mm, 5.0mm Pinhole | 0.1Lux /0.0001Lux (Sens-up) | Electronic | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | N.A. | Pelco-D | Yes | 12VDC | IP67(Option) |
| | | VB21EH | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.6mm Board/2.8mm, 3.7mm, 5.0mm Pinhole | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC | IP67(Option) |
| Miniature Camera | | VQ33S | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 3.6mm Board/ 2.8mm, 3.7mm, 5.0mm Pinhole | 0.1Lux /0.0001Lux (Sens-up) | Electronic | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | N.A. | Pelco-D | Yes(Option) | 12VDC | IP67(Option) |

| Type | Image | Model no. | Imager | H. Resolution | Lens | M. Illumination | DN | LED | IR Beam distance | Smart IR | WDR | DNR | Sens-up/DSS | Motion Detection | Privacy | DIS | Digital Zoom | Digital Pan/ Tilt | OSD Button | RS-485 | 3-Axis | Power | Environment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Miniature Camera |  | VQ33EH | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.6mm Board/2.8mm, 3.7mm, 5.0mm Pinhole | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes(Option) | 12VDC | IP67(Option) |
| Board Camera |  | VM32S | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 3.6mm Board/2.8mm, 3.7mm, 5.0mm Pinhole/ 2.8-12mm | 0.1Lux /0.0001Lux (Sens-up) | Electronic | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | N.A. | Pelco-D | N.A. | 12VDC | Indoor |
| | | VM38S | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 3.6mm Board/2.8mm, 3.7mm, 5.0mm Pinhole/ 2.8-12mm DC Iris | 0.1Lux /0.0001Lux (Sens-up) | Electronic | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | N.A. | Pelco-D | N.A. | 12VDC | Indoor |
| | | VM42S | 1/3" Sony Super HAD CCD II | 600TVL(D)/650TVL(N) | 3.6mm Board/2.8mm, 3.7mm, 5.0mm Pinhole/ 2.8-12mm DC Iris | 0.1Lux /0.0001Lux (Sens-up) | Electronic | N.A. | N.A. | N.A. | sWDR | 2D/3D | Sens-up 512x | 8 zones | 8 zones | Yes | 8.3x | Yes | N.A. | Pelco-D | N.A. | 12VDC | Indoor |
| | | VM32EH | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.6mm Board/2.8mm, 3.7mm, 5.0mm Pinhole/ 2.8-12mm | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A | N.A | N.A | N.A | N.A. | N.A. | N.A. | N.A. | N.A. | 12VDC | Indoor |
| | | VM38EH | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.6mm Board/2.8mm, 3.7mm, 5.0mm Pinhole/ 2.8-12mm DC Iris | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A | N.A | N.A | N.A | N.A. | N.A. | N.A. | N.A. | N.A. | 12VDC | Indoor |
| | | VM42EH | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 650TVL(D)/700TVL(N) | 3.6mm Board/2.8mm, 3.7mm, 5.0mm Pinhole/ 2.8-12mm DC Iris | 0.1 Lux | Electronic | N.A. | N.A. | N.A. | ATR | 2D | N.A | N.A | N.A | N.A | N.A. | N.A. | N.A. | N.A. | N.A. | 12VDC | Indoorw |

## PoC

| Type | Image | Model no. | Imager | H. Resolution | Lens | M. Illumination | DN | LED | IR Beam distance | Smart IR | WDR | DNR | Sens-up/ DSS | Motion Detection | Privacy | DIS | Digital Zoom | Digital Pan/ Tilt | OSD Button | RS-485 | 3-Axis | Power | Weatherproof |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IR Outdoor Camera |  | VN7XEH-V50-PoC | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 560TVL(D) /600TVL(N) | 2.8~12mm /5~50mm DC Iris | 0 Lux | ICR | 850nm Hi-Power 14ea | 50m | Yes | ATR | 2D | N.A. | N.A. | Yes | N.A | N.A | N.A | Yes | N.A. | Yes | 12VDC | IP67 |
| |  | VN6XEH-V12-PoC | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 560TVL(D) /600TVL(N) | 2.8~12mm DC Iris | 0 Lux | ICR | 850nm 21ea | 30m | Yes | ATR | 2D | N.A. | N.A. | Yes | N.A | N.A | N.A | Yes | N.A. | Yes | 12VDC | IP67 |
| Vandal Dome Camera |  | VDA110EH-V12IR-PoC | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 560TVL(D) /600TVL(N) | 3.3~12mm DC Iris | 0 Lux | ICR | 850nm, 20ea | 30m | Yes | ATR | 2D | N.A. | N.A. | Yes | N.A | N.A | N.A | Yes | N.A. | N.A. | 12VDC | IP67 |
| |  | VDA110EH-V12DN-PoC | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 560TVL(D) /600TVL(N) | 3.3~12mm DC Iris | 0.1Lux | ICR | N.A. | N.A. | Yes | ATR | 2D | N.A. | N.A. | Yes | N.A | N.A | N.A | Yes | N.A. | N.A. | 12VDC | IP67 |

| Type | Image | Model no. | Imager | H. Resolution | Lens | M. Illumination | DN | LED | IR Beam distance | Smart IR | WDR | DNR | Sens-up/ DwSS | Motion Detection | Privacy | DIS | Digital Zoom | Digital Pan/ Tilt | OSD Button | RS-485 | 3-Axis | Power | Weatherproof |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Indoor Dome Camera |  | VD101EH-V12IR-PoC | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 560TVL(D) /600TVL(N) | 2.8-12mm DC Iris | 0 Lux | ICR | 850nm, 21ea | 30m | Yes | ATR | 2D | N.A. | N.A. | Yes | N.A | N.A | N.A | Yes | N.A. | N.A. | 12VDC | N.A. |
| |  | VD101EH-V12DN-PoC | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 560TVL(D) /600TVL(N) | 2.8-12mm DC Iris | 0.1Lux | Electronic | N.A. | N.A. | Yes | ATR | 2D | N.A. | N.A. | Yes | N.A | N.A | N.A | Yes | N.A. | N.A. | 12VDC | N.A. |
| Box Camera |  | VC58EH-PoC | 1/3" Sony 960H Ex-view HAD CCD II/Effio-E | 560TVL(D) /600TVL(N) | N.A | 0.1Lux | ICR | N.A. | N.A. | Yes | ATR | 2D | N.A. | N.A. | Yes | N.A | N.A | N.A | Yes | Yes | N.A. | 12VDC | N.A. |
| Tx |  | VPTx1 | 1CH Tx Unit for One cable transmission with Video and Power | | | | | | | | | | | | | | | | | | | | |
| Rx |  | VPRx1 | 1CH Rx Unit for One cable transmission with Video and Power | | | | | | | | | | | | | | | | | | | | |
| |  | VPRx4 | 4CH Rx Unit for One cable transmission with Video and Power | | | | | | | | | | | | | | | | | | | | |
| |  | VPRx8 | 8CH Rx Unit for One cable transmission with Video and Power | | | | | | | | | | | | | | | | | | | | |

## Special Camera

| Type | Image | Model no. | Imager | H. Resolution | Lens | M. Illumination | DN | LED | IR Beam distance | Smart IR | WDR | DNR | Sens-up/ DSS | Motion Detection | Privacy | DIS | Digital Zoom | Digital Pan/ Tilt | OSD Button | RS-485 | 3-Axis | Power | Weatherproof |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| License Plate Camera |  | VN7XLP | 1/3" Sony Super HAD CCD II | 580TVL | 5-50mm DC Iris | 0 Lux | ICR | 850nm Hi-Power 14ea | 20m | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 12VDC/24VAC | IP67 |
| |  | VN70LP | 1/3" Sony B/W Ex-view HAD CCD | 600TVL | 16mm/35mm | 0 Lux | N.A. | 850nm Hi-Power 14ea | 10m/20m | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | Yes | 24VAC/24VAC | IP67 |
| Vehicle Camera |  | VR100CNH | 1/3" Super Sensitive CCD | 520TVL(D) / 560TVL(N) | 2.9mm | 0 Lux | Electronic | 850nm 8ea | 10m | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | 12VDC | IP67 |

# Product Quick Guide - Embedded DVR

| Type | Image | Item Nr. | O/S | Video | Audio (Input/Output) | HDD | Loop out | Spot out | Jog | DVD-R/W | Resolution(H.264) | Event | Power |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DVR | | VH04120P | Embedded Linux | 4CH, H.264 /M-JPEG | 4CH/1CH | 4(3) x Int. SATA | O | O | O | O(Option) | NTSC : 120fps@CIF, 120fps@HD1,120fps@D1 PAL : 100fps@CIF, 100fps@HD1,100fps@D1 | 4CH Alarm In & 4CH Alarm Out | DC12V/7A |
| | | VH04460S | Embedded Linux | 4CH, H.264 /M-JPEG | 1CH/1CH | 2(1) x Int. SATA | - | O | - | O(Option) | NTSC : 120fps@CIF, 120fps@HD1,60fps@D1 PAL : 100fps@CIF, 100fps@HD1,50fps@D1 | 4CH Alarm In & 1CH Alarm Out | DC12V/5A |
| | | VH04430E | Embedded Linux | 4CH, H.264 /M-JPEG | 1CH/1CH | 1 x Int. SATA | - | - | - | - | NTSC : 120fps@CIF, 60fps@HD1,30fps@D1 PAL : 100fps@CIF, 50fps@HD1,25fps@D1 | - | DC12V/3A |
| | | VH08240P | Embedded Linux | 8CH, H.264 /M-JPEG | 4CH/1CH | 4(3) x Int. SATA | O | O | O | O(Option) | NTSC : 240fps@CIF, 240fps@HD1,240fps@D1 PAL : 200fps@CIF, 200fps@HD1,200fps@D1 | 8CH Alarm In & 4CH Alarm Out | DC12V/7A |
| | | VH08660S | Embedded Linux | 8CH, H.264 /M-JPEG | 1CH/1CH | 2(1) x Int. SATA | - | O | - | O(Option) | NTSC : 240fps@CIF, 120fps@HD1,60fps@D1 PAL : 200fps@CIF, 100fps@HD1,50fps@D1 | 4CH Alarm In & 1CH Alarm Out | DC12V/5A |
| | | VH08630E | Embedded Linux | 8CH, H.264 /M-JPEG | 1CH/1CH | 1 x Int. SATA | - | - | - | - | NTSC : 240fps@CIF, 120fps@HD1,60fps@D1 PAL : 200fps@CIF, 100fps@HD1,50fps@D1 | - | DC12V/3A |
| | | VH16480P | Embedded Linux | 16CH, H.264 /M-JPEG | 8CH/1CH | 4(3) x Int. SATA | O | O | O | O(Option) | NTSC : 480fps@CIF, 480fps@HD1,480fps@D1 PAL : 400fps@CIF, 400fps@HD1,400fps@D1 | 16CH Alarm In & 4CH Alarm Out | DC12V/7A |
| | | VH16660S | Embedded Linux | 16CH, H.264 /M-JPEG | 1CH/1CH | 2(1) x Int. SATA | - | O | - | O(Option) | NTSC : 240fps@CIF, 120fps@HD1,60fps@D1 PAL : 200fps@CIF, 100fps@HD1,50fps@D1 | 4CH Alarm In & 1CH Alarm Out | DC12V/5A |

*Security Innovation*

# IP Networks




VISION
www.visionipvideo.com
www.visionhitech.co.kr

# VISION IP Video Technology

## Competitiveness of VISION IP Video

Visionhitech, with its proven technology and quality, ensures the most competent IP video products and solution from mega pixel lines to D1 as well as NVR solution. By choosing Vision IP Video, you may challenge successfully for the upcoming and blooming IP era.

## WHY VISION IP?

**Megapixel image and standard D1 image** are ready according to users' environment and needs.
Visionhitech provides diverse IP camera products from D1 to full HD range, which enables you to choose whatever IP cameras according to your user environment and needs.

Progressive scan image processing and de-interlaced D1 image processing enables **crystal clear image quality.** Those imaging technology of the most natural color reproduction, enhanced low light sensitivity, super WDR, etc. has been the strongest edge of Visionhitech for over 15 years since its incorporation.

## Multi streaming of H.264 and M-JPEG

Vision IP camera supports both H.264 and M-JPEG streaming simultaneously which enables diverse use of surveillance video. Full HD resolution of 1920x1080 full framed H.264 video streaming comes as first streaming while M-JPEG video streaming is also enabled.

## Smart Focus Technology enables Quick and Easy Lens Focus on GUI

For mega pixel cameras, it is very hard to get exact focus from the installation field as they usually use compact video tester to focus the lens. Apart from SD grade analog cameras, for mega pixel cameras, getting genuine focus from this small SD video screen via composite(CVBS) test video is really troublesome and hard to finish. From this back ground, Visionhitech have provided Smart Focus Technology on its mega pixel IP cameras, which enables quick and easy focus of lens by just clicks on the button on the GUI. You don' t need stay so long on the staggering ladder to get lens focus while installing IP camera.

# VISION IP Video Technology

## Hybrid video of IP and analog

Vision IP camera and video server support both IP video through Ethernet and analog composite video out simultaneously. Hence users can utilize IP camera and video server with IP video solutions or equipment as well as analog CCTV systems. When your system is migrating from analog to IP, Vision IP products enable hybrid use of them with one product.

## Quick and easy, plug & play setup

By just hooking-up an Ethernet connector onto Vision IP video products, users can easily find their IP camera in their network and by click it from list, setup is to be finished. Besides, it supports UPnP function, which makes it more easy and convenient.

## NVR Pro

Vision NVR Pro or Lite, which comes with Vision IP video supports all key functions essential for a state-of-the-art digital security system, such as LIVE VIDEO, SEARCH & PLAYBACK, EVENT VIEWER and e-MAP. Besides, client-server based NVR enables multiple connection of NVR's and IP cameras onto one system, while enabling LIVE, SEARCH & PLAYBACK as well as EVENT MANAGEMENT of all those connected NVRs and IP cameras.

## Open Platform IP Video

Vision IP video supports open IP video platform of ONVIF, which ensures interoperability with those prominent 3rd party surveillance solutions like MILESTONE, NUUO, GENETEC, AXXON, EXACQVISION, AVIGILON, AIMETIS, PELCO, etc.

## Full Line-up of Cameras

Visionhitech provides full line-up of IP cameras from basic box cameras to Full HD high speed dome cameras, IR bullet cameras, etc. Hence, any large project can be implemented by using Vision IP cameras only, without mixing one or two kinds of other manufacturer's IP camera.

# VPD200SM2i

## Full HD 20x High Speed Dome Camera




1080p | PoE | SD SDHC | Auto Focus

## Features

- 1/2.8" SONY progressive scan CMOS image sensor for excellent image quality
- Dual Streaming of H.264 and M-JPEG
- Supports image resolutions up to Full HD (1920x1080)
- Max. 20x optical zoom and digital 12x zoom
- 360 degree endless panning
- Tilt range of 0~90 degree
- True Day/Night(ICR)
- WDR
- Built-in FAN,HEATER
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support
- UPnP supported
- Micro SD/SDHC Local storage, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- External microphone input & speaker output connector
- external sensors or external alarm devices
- Supports CBR (constant bit rate) and VBR (variable bit rate) modes
- Adjustable frame rate
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported (Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Includes Windows based IP Installer and license-free 16 channel NVR(Network Video Recorder) software

| MODEL | | VPD200SM2i |
|---|---|---|
| Image sensor | | 1/2.8" SONY progressive scan CMOS image sensor |
| Day & Night(ICR) | | Auto/Color/BW |
| Environment | | Outdoor(IP66) |
| Optical Zoom | | 20X |
| Digital Zoom | | 12X |
| Lens | | 20x AF zoom ( f4.7~94mm (F1.6~F3.5)] |
| Min. illumination / Light sensitivity (Lux) | | [color] ICR off : 1.7Lux<br>ICR on : 0.3Lux<br>[B/W] ICR off : 0.5Lux<br>ICR on : 0.095Lux |
| Pan Tilt Operation | Pan | 360 Endless (400 deg/sec) |
| | Tilt | 0~90 deg (400 deg/sec) |
| WDR/BLC | | On/Off |
| Noise Reduction | | 2DNR |
| AE Mode | | Auto, Manual, Bright, Shutter Priority, Iris Priority, Spot |
| GAIN Control | | Auto / Manual (-3 ~ 28dB) |
| Shutter Control | | Auto / Manual (1/1 ~ 1/10,000 sec) |
| WhiteBlance | | Auto / Manual (Red, Blue Gain Adjustable) |
| Video | Compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1920 x 1080 |
| | Frame rate | H.264 Up to 15fps with 1920x1080 |
| | | MJPEG Up to 30fps with 720p resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio | Audio streaming | Two-way, full duplex |
| | Compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono) |
| | Audio output | Line output/ 1 x Line-Out (Mono) |
| Serial | Port 1 | RS-485 |
| | Data Rate | 600bps ~ 115200bps |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DDNS, NTP |
| | | RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1920x1080 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recording | Save to Micro SD card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface[(ocx(dll) + document)] |

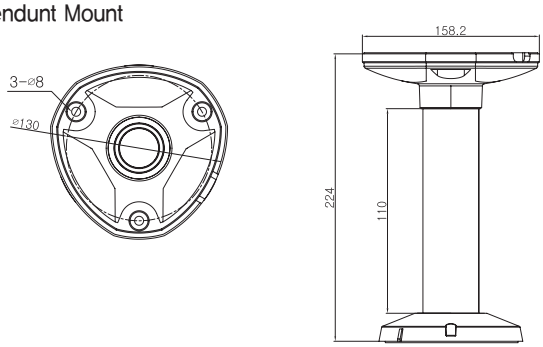
# VPD200SM2i

## Full HD 20x High Speed Dome Camera

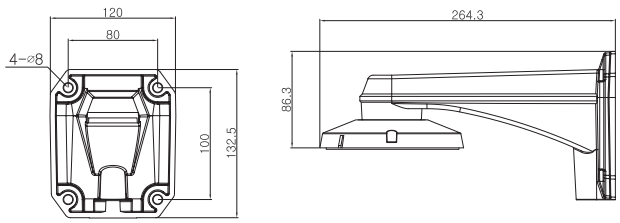


| MODEL | | VPD200SM2i |
|---|---|---|
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/5.0A, POE |
| | Power Consumption | Max. 36W |
| | Weight (Approx.) | 3,800g (Wall) / 3,200 g (Ceiling) |
| | LED's | Power, Network Connection |
| | Dimension(mm) | 185(Ø) x 193.5(H) |
| Environment | Operating Temperature | –10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | –20 degree~60 degree Celsius (–4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package Contents | | Network Camera, Use Manual, External Power Adaptor, Software CD |

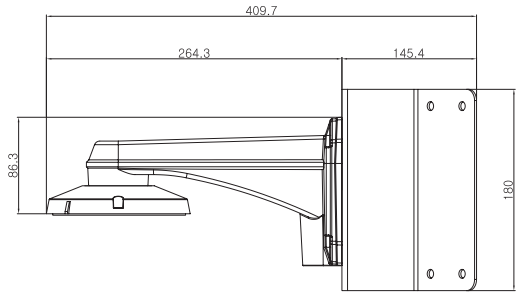
### Pendunt Mount



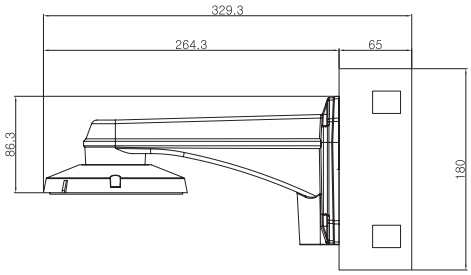

### Wall Mount



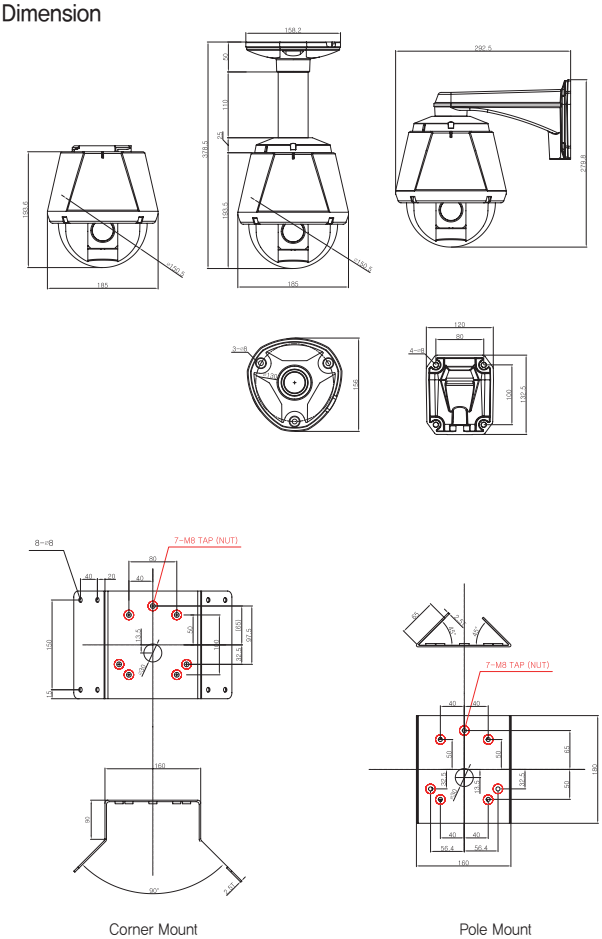

### Corner Mount Ass'y




### Junction Box Ass'y




### Dimension



# VPD330i-I/ VPD330i-O

## D1 33x Speed Dome Camera



Indoor

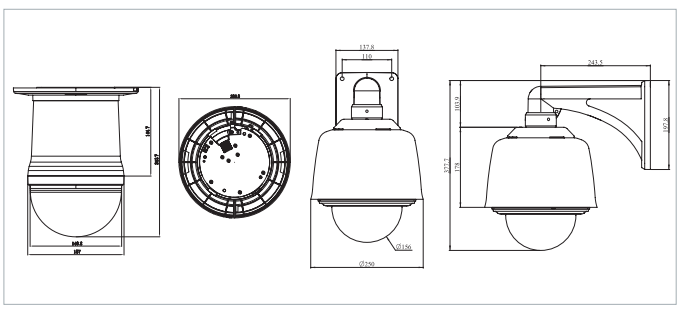


Outdoor

D1 WDR Auto Focus True Day/Night ICR

## Features

- Fast and precise pan/ tilt operation (Pan 400° /sec., Tilt 400° /sec.)
- 360 degree endless panning
- Wide tilt range of −4° ~184°
- 37x optical zoom and 12x digital zoom
- 128X WDR
- 2D and 3D DNR(Digital Noise Reduction)
- 128 presets and touring function
- 8 privacy zones
- Dual Streaming of H.264 and M-JPEG
- 30fps/D1 support
- Integrated motion detection with pre-and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support
- UPnP supported
- SD card slot(Outdoor only), event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- External microphone input & speaker output connector
- Terminal block for external sensors or external alarm devices
- Supports CBR and VBR modes
- ntegrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software



| MODEL | | VPD330i-I | VPD330i-O |
|---|---|---|---|
| Image sensor | | 1/4" Sony Color vertical Double Density CCD | |
| Day & Night | | Auto/Color/BW | |
| Environment | | INDOOR | OUTDOOR(IP66) |
| Optical Zoom | | 33X | 33X |
| Digital Zoom | | 12X | 12X |
| Lens | | 33x AF zoom ( 3.5~115.5mm(F1.6)) | |
| Min. illumination / Light sensitivity (Lux) | | 0.7Lux at F1.6 (Color),<br>0.002Lux(Sens-up, 256x)<br>0.06Lux at F1.6 (B/W) | |
| Pan Tilt | Pan | 360 Endless (400 deg/sec) | |
| Operation | Tilt | -4~184 deg (400 deg/sec) | |
| WDR/BLC | | On/Off (User selectable on OSD) | |
| Noise Reduction | | 2D+3DNR | |
| Video | Compression | H.264 baseline profile, Motion JPEG | |
| | Resolutions | Up to D1(NTSC:720X480, PAL:720X576) | |
| | Frame rate | H.264 Up to 30fps at D1 | |
| | | MJPEG Up to 30fps at D1 | |
| | Video streaming | Support multi stream with H.264, MJPEG | |
| | | Adjustable frame rate | |
| | | VBR/CBR in H.264 | |
| | Image setting | Day & Night | |
| | | Auto White Balance | |
| | | Auto Exposure | |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. | |
| | | Privacy Mask | |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. | |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL | |
| Audio | Audio streaming | Two-way, full duplex | |
| | Compression | G.711 | |
| | Sample Rate | 8KHZ | |
| | Data Rate | 64Kbps | |
| | Audio input | Microphone input /1 x Line-In (Mono) | |
| | Audio output | Line output/ 1 x Line-Out (Mono) | |
| Network | Security | Password protection | |
| | | User access log | |
| | | HTTPS encryption | |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP | |
| System integration | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks | |
| | Alarm trigger | Motion detection | |
| | | External input/Normal Open/Close Type | |
| | Alarm events | File upload via ftp, e-mail | |
| | | Notification via email, FTP and TCP | |
| | Video buffer | 16MB pre-alarm and post-alarm | |
| | Local Storage | N.A. | SD/SDHC Slot |
| | Firmware upgrade | Remote upgrade via network | |
| | API | CGI Interface document | |
| | | ActiveX Interface(ocx(dll) + document) | |
| Physical | RESET Button | 1 x Factory Reset Button | |
| | Power Source | DC 12V/3.0A, PoE(Power over Ethernet): 802.3at | 24VAC |
| | Power Consumption | Max. 15W | |
| | Weight (Appr.) | 3,500g (Indoor) | 4,500 g (Outdoor) |
| | LED's | Power, Network Connection | |
| | Dimension(mm) | 156(Ø) x 236.6(H) | 250(Ø) x 377(H) |
| Environ-ment | Operating Temperature | -20℃~50℃ | -40℃~50℃ |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) | |
| Package Contents | | Network Camera, Use Manual, External Power Adaptor, Software CD | |

# VPD370i-I/ VPD370i-O

## D1 37x Speed Dome Camera



Indoor

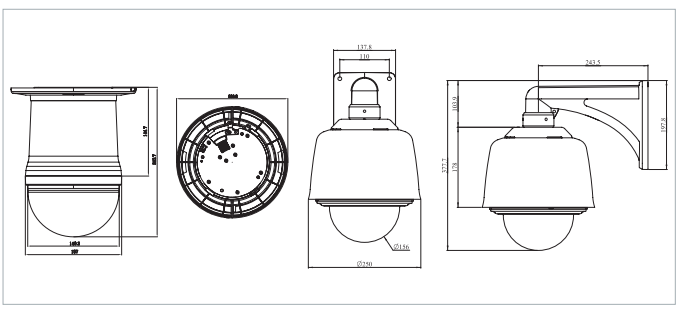


Outdoor

D1 WDR Auto Focus True Day/Night ICR

## Features

- Fast and precise pan/ tilt operation (Pan 400˚ /sec., Tilt 400˚ /sec.)
- 360 degree endless panning
- Wide tilt range of −4˚ ~184˚
- 37x optical zoom and 12x digital zoom
- 128X WDR
- 2D and 3D DNR(Digital Noise Reduction)
- 128 presets and touring function
- 8 privacy zones
- Dual Streaming of H.264 and M-JPEG
- 30fps/D1 support
- Integrated motion detection with pre-and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support
- UPnP supported
- SD card slot(Outdoor only), event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- External microphone input & speaker output connector
- Terminal block for external sensors or external alarm devices
- Supports CBR and VBR modes
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software



| MODEL | | VPD370i-I | VPD370i-O |
|---|---|---|---|
| Image sensor | | 1/4" Sony Color vertical Double Density CCD | |
| Day & Night | | Auto/Color/BW | |
| Environment | | INDOOR | OUTDOOR(IP66) |
| Optical Zoom | | 37X | 33X |
| Digital Zoom | | 12X | 12X |
| Lens | | 37x AF zoom ( f3.5~129.5mm (F1.6)) | |
| Min. illumination / Light sensitivity (Lux) | | 0.7Lux at F1.6 (Color),<br>0.002Lux(Sens-up, 256x)<br>0.06Lux at F1.6 (B/W) | |
| Pan Tilt | Pan | 360 Endless (400 deg/sec) | |
| Operation | Tilt | -4~184 deg (400 deg/sec) | |
| WDR/BLC | | On/Off (User selectable on OSD) | |
| Noise Reduction | | 2D+3DNR | |
| Video | Compression | H.264 baseline profile, Motion JPEG | |
| | Resolutions | Up to D1(NTSC:720X480, PAL:720X576) | |
| | Frame rate | H.264 Up to 30fps at D1 | |
| | | MJPEG Up to 30fps at D1 | |
| | Video streaming | Support multi stream with H.264, MJPEG | |
| | | Adjustable frame rate | |
| | | VBR/CBR in H.264 | |
| | Image setting | Day & Night | |
| | | Auto White Balance | |
| | | Auto Exposure | |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. | |
| | | Privacy Mask | |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. | |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL | |
| Audio | Audio streaming | Two-way, full duplex | |
| | Compression | G.711 | |
| | Sample Rate | 8KHZ | |
| | Data Rate | 64Kbps | |
| | Audio input | Microphone input /1 x Line-In (Mono) | |
| | Audio output | Line output/ 1 x Line-Out (Mono) | |
| Network | Security | Password protection | |
| | | User access log | |
| | | HTTPS encryption | |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP | |
| System integration | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks | |
| | Alarm trigger | Motion detection | |
| | | External input/Normal Open/Close Type | |
| | Alarm events | File upload via ftp, e-mail | |
| | | Notification via email, FTP and TCP | |
| | Video buffer | 16MB pre-alarm and post-alarm | |
| | Local Storage | N.A. | SD/SDHC Slot |
| | Firmware upgrade | Remote upgrade via network | |
| | API | CGI Interface document | |
| | | ActiveX Interface(ocx(dll) + document) | |
| Physical | RESET Button | 1 x Factory Reset Button | |
| | Power Source | DC 12V/3.0A, PoE(Power over Ethernet): 802.3at | 24VAC |
| | Power Consumption | Max. 15W | |
| | Weight (Appr.) | 3,500g (Indoor) | 4,500 g (Outdoor) |
| | LED's | Power, Network Connection | |
| | Dimension(mm) | 156(Ø) x 236.6(H) | 250(Ø) x 377(H) |
| Environ-ment | Operating Temperature | -20℃~50℃ | -40℃~50℃ |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) | |
| Package Contents | | Network Camera, Use Manual, External Power Adaptor, Software CD | |

# VA102SM3Ti-12SF

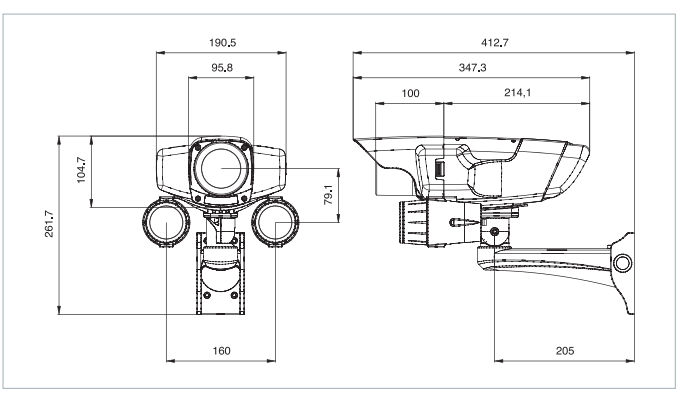
## 3MP 12x Smart Focus Apache II Camera



3MP | SD SDHC | Smart Focus

## Features

- 3.0 Mega pixel 1/2.8" SONY progressive scan CMOS image sensor
- IP66 rated weatherproof
- Remote lens control on the UI
- 12x(5~60mm) Smart Focus
- 80mm IR Beam Distance
- Multi Streaming of H.264 and M-JPEG
- Supports image resolutions up to 2048x1536
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-triggered FTP and email upload of still images and videos
- Digital PTZ
- UPnP supported
- SD/SDHC Card Slot
- 1 Port analog video loop-out port
- External sensors devices
- Supports CBR (constant bit rate) and VBR (variable bit rate) modes
- Controllable frame rate
- Video access through any standard Web browser
- Privacy Masking up to 4 areas
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported (Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Includes Windows based IP Installer and License-free 16 channel NVR software




| MODEL | | VA102SM3Ti-12SF |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 432MHz |
| | Video Buffer | 128Mbyte Video Frame Buffer |
| | Flash | 128Mbyte |
| | SDRAM | 128Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 80M |
| | Day & Night | ICR |
| | Lens Control | Smart Focus |
| | Lens | 5~60mm Smart Focuss |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 2048 x 1536 |
| | Frame rate | H.264 Up to 20fps with 2048x1536 |
| | | MJPEG Up to 30fps with 1080p resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Serial | Port1 | RS-485 |
| | Data Rate | 600bps~ 115200bps |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP |
| | | RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 2048x1536 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Firmware upgrade | Remote upgrade via network |
| | Recording | Save to SD/SDHC Card |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Power Source | DC 24V |
| | Power Consumption | Max 13.2W with IR On |
| | Net Weight | 5000g |
| | LED's | Network Connection |
| | Dimension | 220mm(W) X 261.7mm(H) X412.7mm(D) including Bracket |
| Environment | Operating Temperature | -10℃~50℃ |
| | Storage Temperature | -20℃~60℃ |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VA100SM3Ti-12SF

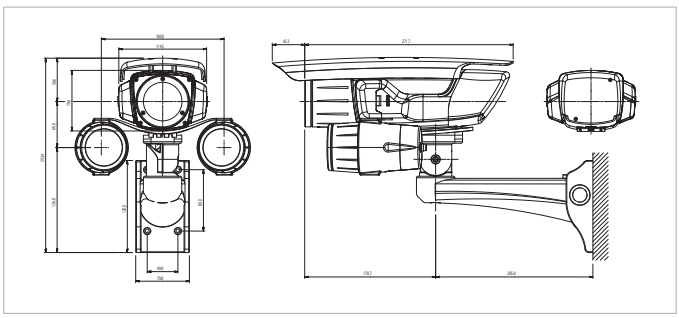
## 3MP 12x Smart Focus Apache Camera



3MP | SD SDHC | Smart Focus

## Features

- 3.0 Mega pixel 1/2.8" SONY progressive scan CMOS image sensor for excellent image quality
- IP66 rated weatherproof
- Remote lens control on the UI
- 12x(5~60mm) Smart Focus
- 70m IR Beam Distance
- Multi Streaming of H.264 and M-JPEG
- Supports image resolutions up to 2048x1536
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-triggered FTP and email upload of still images and videos
- Digital PTZ
- UPnP supported
- SD/SDHC Card Slot
- 1 Port analog video loop-out port
- External sensors devices
- Supports CBR (constant bit rate) and VBR (variable bit rate) modes
- Controllable frame rate
- Video access through any standard Web browser
- Privacy Masking up to 4 areas
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported (Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Includes Windows based IP Installer and License-free 16 channel NVR software



| MODEL | | VA100SM3Ti-12SF |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 432MHz |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 128Mbyte |
| | SDRAM | 128Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 70M |
| | Day & Night | ICR |
| | Lens Control | Smart Focus |
| | Lens | 5~60mm Smart Focus |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 2048 x 1536 |
| | Frame rate | H.264 Up to 20fps with 2048x1536 |
| | | MJPEG Up to 30fps with 1080p resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Serial | Port1 | RS-485 |
| | Data Rate | 600bps~ 115200bps |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 2048x1536 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Firmware up-grade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Power Source | DC 24V |
| | Power Con-sumption | Max 13.2W with IR On |
| | Net Weight | 3400g |
| | LED's | Network Connection |
| | Dimension | 220mm(W) X 253mm(H) X366mm(D) including Bracket |
| Environment | Operating Temperature | -10℃~50℃ |
| | Storage Temperature | -20℃~60℃ |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VN7XSM3i-x12AF

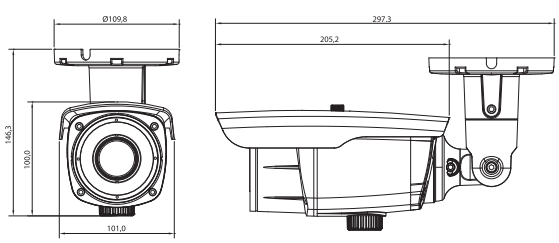
## Full HD 12x Auto Focus IR Outdoor Camera




1080p | PoE | Auto Focus

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- 12x(5~60mm) Auto Focus
- Local lens control by OSD switch and Remote lens control on UI
- 30m IR Beam Distance
- Dual Streaming of H.264 and M-JPEG
- H.264 : 15fps/ 1920x1080, M-JPEC : 15fps/ VGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Cable managed bracket
- IP67 Weatherproof




| MODEL | | VN7XSM3i-x12AF |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 30M |
| | Day & Night | ICR |
| | Lens Control | AF Zoom Control |
| | Lens | 5~60mm (12x Optical Zoom) |
| | AF mode | Manual/One-push/AUTO |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1920 x 1080 |
| | Frame rate | H.264 Up to 15fps with 1920x1080 |
| | | MJPEG Up to 30fps with 720p resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1920x1080 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Power Source | DC 12V/3A |
| | Power Consumption | Max. 6.6W, Max. 11.4W with IR On |
| | Net Weight | 1500g (Camera Only) |
| | LED's | Power, Network Connection |
| | Dimension | 101mm(W) X 108.7mm(H) X 297mm(D) including Bracket |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VN7XSMi-x12AF

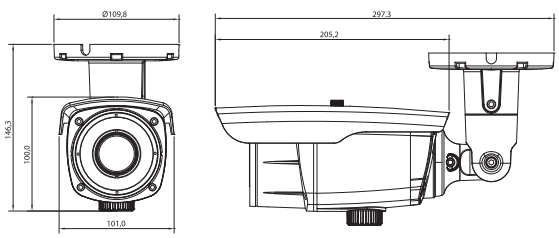
## HD 12x Auto Focus IR Outdoor Camera




720p PoE Auto Focus

## Features

- 1.3MP 1/3" Sony progressive scan CMOS image sensor
- 12x(5–60mm) Auto Focus
- Local lens control by OSD switch and Remote lens control on UI
- 30m IR Beam Distance
- Dual Streaming of H.264 and M–JPEG
- H.264 : 30fps/ 1280x720, M–JPEC : 15fps/ VGA
- Integrated motion detection with pre– and post–alarm image/video buffering
- Event–Triggered FTP and email upload of still images and videos
- Full Duplex Two–Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- 1 Port analog video loop–out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid– and end–spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E–Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license–free 16 CH NVR software
- Cable managed bracket
- IP67 Weatherproof




| MODEL | | VN7XSMi–x12AF |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32–bit ARM9 RISC CPU up to 533MHz, 32KB I/D–Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1.3 Megapixel 1/3" SONY progressive scan CMOS image sensor |
| | Total Pixels | 1384(H) x 1076(V) 1.49 Megapixel |
| | Effective Pixels | 1329(H) x 1049(V) 1.39 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 30M |
| | Day & Night | ICR |
| | Lens Control | AF Zoom Control |
| | Lens | 5~60mm (12x) |
| | AF mode | Manual/One–push/AUTO |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1280 x 720 |
| | Frame rate | H.264 Up to 30fps with 1280x720 |
| | | MJPEG Up to 30fps with VGA resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect – Color, Sharpness, Mirror/V–Flip, etc. |
| | Output | BNC x1, 1.0Vp–p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two–way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line–In (Mono)–Option |
| | Audio output | Line output/ 1 x Line–Out (Mono)–Option |
| Serial | Port1 | RS–485 |
| | Data Rate | 600bps~ 115200bps |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e–mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre–alarm and post–alarm |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Power Source | DC 12V/3A |
| | Power Consumption | Max. 6.6W, Max. 11.4W with IR On |
| | Net Weight | 1500g (Camera Only) |
| | LED's | Power, Network Connection |
| | Dimension | 101mm(W) X 108.7mm(H) X 297mm(D) including Bracket |
| Environment | Operating Temperature | –10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | –20 degree~60 degree Celsius (–4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VN7XSM3Ti

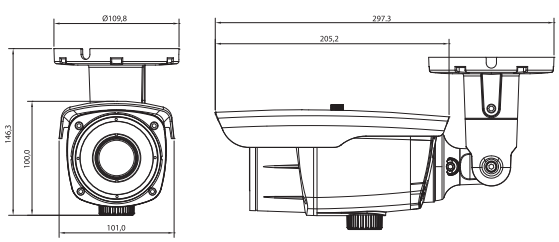
## 3MP 12x Motorized Zoom IR Outdoor Camera




3MP PoE Smart Focus

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- 12x(5~60mm) Smart Focus
- Local lens control by OSD switch and Remote lens control on UI
- 30m IR Beam Distance
- Multi Streaming of H.264 and M-JPEG
- H.264 : 20fps/ 2048x1536, M-JPEC : 20fps/ QVGA
- H.264 : 30fps/ 1920x1080, M-JPEC : 30fps/ QVGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Cable managed bracket
- IP67 Weatherproof




| MODEL | | VN7XSM3Ti |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 432MHz |
| | Video Buffer | 128Mbyte |
| | Flash | 128Mbyte |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 30M |
| | Day & Night | ICR |
| | Lens Control | Smart Focus |
| | Lens | 5~60mm Smart Focus |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 2048 x 1536 |
| | Frame rate | H.264 Up to 15fps with 2048x1536 |
| | | MJPEG Up to 30fps with 1080p resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 2048x1536 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 6.6W, Max. 11.4W with IR On |
| | Net Weight | 1500g (Camera Only) |
| | LED's | Power, Network Connection |
| | Dimension | 101mm(W) X 108.7mm(H) X 297mm(D) including Bracket |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VN7XSM3i

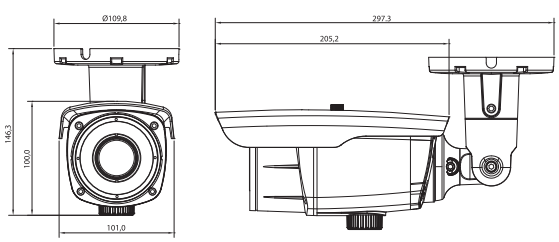
## Full HD 12x Motorized Zoom IR Outdoor Camera




1080p | PoE | Motorized Zoom

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- 12x(5~60mm) Motorized zoom
- Local lens control by OSD switch and Remote lens control on UI
- 30m IR Beam Distance
- Dual Streaming of H.264 and M-JPEG
- H.264 : 15fps/ 1920x1080, M-JPEC : 15fps/ VGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Cable managed bracket
- IP67 Weatherproof




| MODEL | | VN7XSM3i |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 52dB |
| | Min. Illumination | 0 Lux (IR On) |
| | IR Distance | 30M |
| | Day & Night | ICR |
| | Lens Control | Motorized Lens Control |
| | Lens | 5~60mm Vari-focal Auto Iris Megapixel Lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1920 x 1080 |
| | Frame rate | H.264 Up to 15fps with 1920x1080 |
| | | MJPEG Up to 30fps with 720P resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | ATR-EX(WDR) |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1920x1080 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 6.6W, Max. 11.4W with IR On |
| | Net Weight | 1500g (Camera Only) |
| | LED's | Power, Network Connection |
| | Dimension | 101mm(W) X 108.7mm(H) X 297mm(D) including Bracket |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VN7XSMi

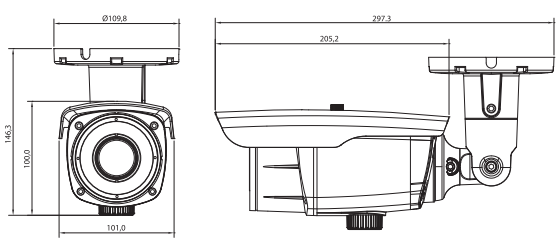
## HD 12x Motorized Zoom IR Outdoor Camera




720p PoE Motorized Zoom

## Features

- 1.3MP 1/3" Sony progressive scan CMOS image sensor
- 12x(5~60mm) Motorized zoom
- Local lens control by OSD switch and Remote lens control on UI
- 30m IR Beam Distance
- Dual Streaming of H.264 and M-JPEG
- H.264 : 30fps/ 1280x720, M-JPEC : 15fps/ VGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Cable managed bracket
- IP67 Weatherproof




| MODEL | | VN7XSMi |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1.3 mega pixel 1/3" SONY progressive scan CMOS image sensor |
| | Total Pixels | 1384(H) x 1076(V) 1.49 Megapixel |
| | Effective Pixels | 1329(H) x 1049(V) 1.39 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 30M |
| | Day & Night | ICR |
| | Lens Control | Motorized Lens Control |
| | Lens | 5~60mm Vari-focal Auto Iris Mega Pixel Lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1280 x 720 |
| | Frame rate | H.264 Up to 30fps with 1280x720 |
| | | MJPEG Up to 30fps with VGA resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | controllable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | 1 x Composite(Loop-out) (1 Vpp 75 Ohm) |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Single Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Single Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks |
| | Alarm trigger | Intelligent video |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| etc | RESET Button | 1 x Factory Reset Button |
| Physical | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 6.6W, Max. 11.4W with IR On |
| | Net Weight | 1500g (Camera Only) |
| | LED's | Power, Network Connection |
| | Dimension | 101mm(W) X 108.7mm(H) X 297mm(D) including Bracket |
| Environment | Operating Temperature | -10 degree~50 degree Celsius |
| | Storage Temperature | -20 degree~60 degree Celsius |
| Software | Included Software | NVR Lite (16 Channel), IP Installer |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VN7XEHi

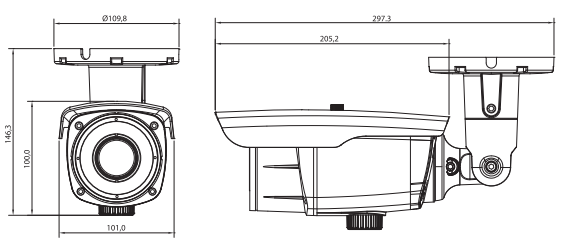
## D1 4x Motorized Zoom IR Outdoor Camera




D1 PoE Motorized Zoom

## Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 2.8-12mm Motorized zoom
- Local lens control by OSD switch and Remote lens control on UI
- 30m IR Beam Distance
- ATR(Adaptive Tone-Curve Reproduction)
- Dual Streaming of H.264 and M-JPEG
- H.264 : 25/30fps/ D1, M-JPEC : 25/30fps/ D1
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Cable managed bracket
- IP67 Weatherproof




| MODEL | | VN7XEHi |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| | Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| | Synchronizing system | Internal |
| | Scanning system | NTSC : 525 Lines PAL : 625 Lines |
| | S/N Ratio | More than 52dB (AGC Off) |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 30M |
| | Shutter Speed | NTSC:1/60~1/10,000 sec. PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | Lens | 2.8-12mm Motorized zoom lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to D1(NTSC:720X480, PAL:720X576) |
| | Frame rate | H.264 Up to 30fps at D1 |
| | | MJPEG Up to 30fps at D1 |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio | Audio streaming | Two-way, full duplex |
| (Option) | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks |
| integration | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W, Max. 7.2W with IR On |
| | Net Weight | 520g |
| | LED's | Power, Network Connection |
| | Dimension | 101mm(W) X 108.7mm(H) X 297mm(D) including Bracket |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VN6XSM3Ti

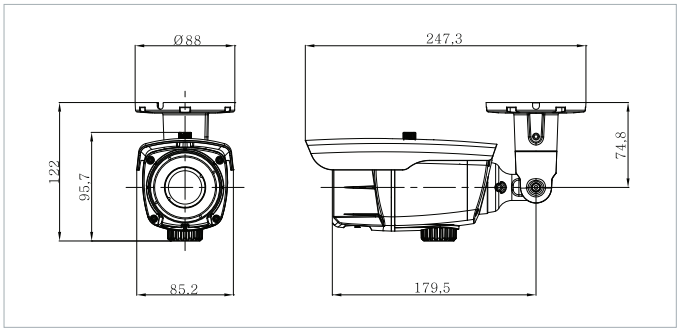
## 3MP 3x Motorized Zoom IR Outdoor Camera




3MP PoE Smart Focus

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- 2.8–10mm Motorized zoom Smart Focus
- Local lens control by OSD switch and Remote lens control on UI
- 20m IR Beam Distance
- Multi Streaming of H.264 and M–JPEG
- H.264 : 20fps/ 2048x1536, M–JPEC : 20fps/ QVGA
- H.264 : 30fps/ 1920x1080, M–JPEC : 30fps/ QVGA
- Integrated motion detection with pre– and post–alarm image/video buffering
- Event–Triggered FTP and email upload of still images and videos
- Full Duplex Two–Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- 1 Port analog video loop–out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid– and end–spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E–Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license–free 16 CH NVR software
- Cable managed bracket
- IP67 Weatherproof




| MODEL | | VN6XSM3Ti |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32–bit ARM9 RISC CPU up to 432MHz |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 128Mbyte |
| | SDRAM | 128Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 20M |
| | Day & Night | ICR |
| | Lens | 2.8–10mm Smart Focus |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 2048 x 1536 |
| | Frame rate | H.264 Up to 20fps with 2048x1536 |
| | | MJPEG Up to 30fps with 1080p resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect – Color, Sharpness, Mirror/V–Flip, etc. |
| | Output | BNC x1, 1.0Vp–p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two–way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line–In (Mono)–Option |
| | Audio output | Line output/ 1 x Line–Out (Mono)–Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 2048x1536 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e–mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre–alarm and post–alarm |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 6.6W, Max. 11.4W with IR On |
| | Net Weight | 1500g |
| | LED's | Power, Network Connection |
| | Dimension | 87.7mm(W) X 108.7mm(H) X 297mm(D) including Bracket |
| Environment | Operating Temperature | –10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | –20 degree~60 degree Celsius (–4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VN6XSM3i

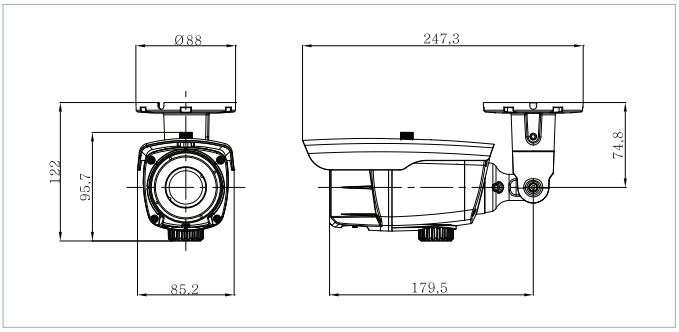
## Full HD 3x Motorized Zoom IR Outdoor Camera




1080p | PoE | Motorized Zoom

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- 2.8–10mm Motorized zoom
- Local lens control by OSD switch and Remote lens control on UI
- 20m IR Beam Distance
- Dual Streaming of H.264 and M–JPEG
- H.264 : 15fps/ 1920x1080, M–JPEC : 15fps/ VGA
- Integrated motion detection with pre– and post–alarm image/video buffering
- Event–Triggered FTP and email upload of still images and videos
- Full Duplex Two–Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- 1 Port analog video loop–out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid– and end–spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E–Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license–free 16 CH NVR software
- Cable managed bracket
- IP67 Weatherproof




| MODEL | | VN6XSM3i |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32–bit ARM9 RISC CPU up to 533MHz, 32KB I/D–Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 52dB |
| | Min. Illumination | 0 Lux (IR On) |
| | IR Distance | 20M |
| | Lens | 2.8–10mm Motorized zoom |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1920 x 1080 |
| | Frame rate | H.264 Up to 15fps with 1920x1080 |
| | | MJPEG Up to 30fps with VGA resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | ATR–EX(WDR) |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect – Color, Sharpness, Mirror/V–Flip, etc. |
| | Output | BNC x1, 1.0Vp–p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two–way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line–In (Mono)–Option |
| | Audio output | Line output/ 1 x Line–Out (Mono)–Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1920x1080 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e–mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre–alarm and post–alarm |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 6.0W, Max. 10.8W with IR On |
| | Net Weight | 1500g (Camera Only) |
| | LED's | Power, Network Connection |
| | Dimension | 87.7(W) X 96mm(H) X 278.1mm(D) including Bracket |
| Environment | Operating Temperature | –10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | –20 degree~60 degree Celsius (–4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VN6XSMi

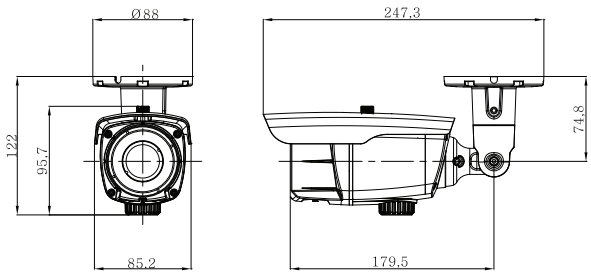
## HD IR Outdoor Camera




720p PoE

## Features

- 1.3MP 1/3" Sony progressive scan CMOS image sensor
- 3.7mm Board lens
- 20m IR Beam Distance
- Dual Streaming of H.264 and M-JPEG
- H.264 : 15fps/ 1280x720, M-JPEC : 15fps/ VGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Cable managed bracket
- IP67 Weatherproof




| MODEL | | VN6XSMi |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1.3 mega pixel 1/3" SONY progressive scan CMOS image sensor |
| | Total Pixels | 1384(H) x 1076(V) 1.49 Megapixel |
| | Effective Pixels | 1329(H) x 1049(V) 1.39 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 20M |
| | Lens | 3.7mm Mega Pixel Board Lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1280 x 720 |
| | Frame rate | H.264 Up to 30fps with 1280x720 |
| | | MJPEG Up to 30fps with VGA resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | controllable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | 1 x Composite(Loop-out) (1 Vpp 75 Ohm) |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Single Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Single Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks |
| | Alarm trigger | Intelligent video |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recording | Save to SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 6.0W, Max. 10.8W with IR On |
| | Net Weight | 1500g |
| | LED's | Power, Network Connection |
| | Dimension | 87.7(W) X 96mm(H) X 278.1mm(D) including Bracket |
| Environment | Operating Temperature | -25 degree~50 degree Celsius |
| | Storage Temperature | -25 degree~60 degree Celsius |
| Software | Included Software | NVR Lite (16 Channel), IP Installer |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VN6XEHi

## D1 4x Motorized Zoom IR Outdoor Camera

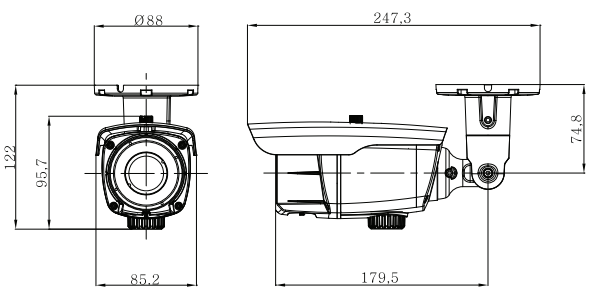





D1 PoE

## Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 2.8-12mm Motorized zoom
- Local lens control by OSD switch and Remote lens control on UI
- 20m IR Beam Distance
- ATR(Adaptive Tone-Curve Reproduction)
- Dual Streaming of H.264 and M-JPEG
- H.264 : 25/30fps/ D1, M-JPEC : 25/30fps/ D1
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Cable managed bracket
- IP67 Weatherproof




| MODEL | | VN6XEHi |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| | Synchronizing system | Internal |
| | Scanning system | NTSC : 525 Lines PAL : 625 Lines |
| | S/N Ratio | More than 52dB (AGC Off) |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 20M |
| | Shutter Speed | NTSC:1/60~1/10,000 sec. PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | Lens | 2.8-12mm Motorized zoom lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to D1(NTSC:720X480, PAL:720X576) |
| | Frame rate | H.264 Up to 30fps at D1 |
| | | MJPEG Up to 30fps at D1 |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W, Max. 7.2W with IR On |
| | Net Weight | 520g Appr.(Camera Only) |
| | LED's | Power, Network Connection |
| | Dimension | 87.7(W) X 96mm(H) X 278.1mm(D) including Bracket |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VDA110SM3i-IR

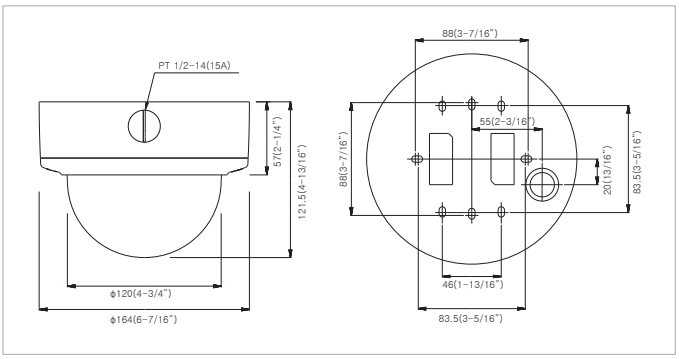
## Full HD IR Vandal SuperDome Camera




1080p | PoE | SD SDHC | 3 Axis

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- 2.8~10mm lens
- 30m IR Beam Distance
- Dual Streaming of H.264 and M-JPEG
- H.264 : 15fps/ 1920x1080, M-JPEC : 15fps/ VGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support
- External microphone input & speaker output connector
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Axis
- Vandalproof/ Tamperproof
- IP66 Weatherproof




| MODEL | | VDA110SM3i-IR |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2144(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 52dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 30M |
| | Day & Night | ICR |
| | Lens Control | DC Iris |
| | Lens | 2.8~10mm Vari-focal Megapixel Lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1920 x 1080 |
| | Frame rate | H.264 Up to 15fps with 1920x1080 |
| | | MJPEG Up to 30fps with 720P resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | ATR-EX(WDR) |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP |
| | | RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1920x1080 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | | External output activation/Normal Open/Close Type |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recording | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| etc | RESET Button | 1 x Factory Reset Button |
| Physical | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W, Max. 7.2W with IR On |
| | Net Weight | 2000g |
| | LED's | Power, Network Connection |
| | Dimension | 164(Ø) x121.5(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VDA110SMi-IR

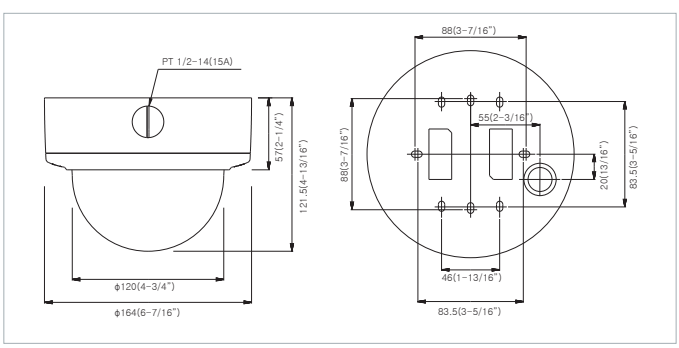
## HD IR Vandal SuperDome Camera




720p | PoE | SD SDHC | 3 Axis

## Features

- 1.3MP 1/3" Sony progressive scan CMOS image sensor
- 3.5~16mm lens
- 30m IR Beam Distance
- Dual Streaming of H.264 and M-JPEG
- H.264 : 30fps/ 1280x720, M-JPEC : 15fps/ VGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Aixs
- Vandalproof/ Tamperproof
- IP66 Weatherproof




| MODEL | | VDA110SMi-IR |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1.3 mega pixel 1/3" SONY progressive scan CMOS image sensor |
| | Total Pixels | 1384(H) x 1076(V) 1.49 Megapixel |
| | Effective Pixels | 1329(H) x 1049(V) 1.39 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 30M |
| | Day & Night | ICR |
| | Lens Control | DC Iris |
| | Lens | 3.5~16mm Vari-focal Mega Pixel Lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1280 x 720 |
| | Frame rate | H.264 Up to 30fps with 1280x720 |
| | | MJPEG Up to 15fps with VGA resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | controllable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | 1 x Composite(Loop-out) (1 Vpp 75 Ohm) |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks |
| | Alarm trigger | Intelligent video |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recording | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W, Max. 7.2W with IR On |
| | Net Weight | 2000g |
| | LED's | Power, Network Connection |
| | Dimension | 164(Ø) x121.5(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VDA110EHi-IR

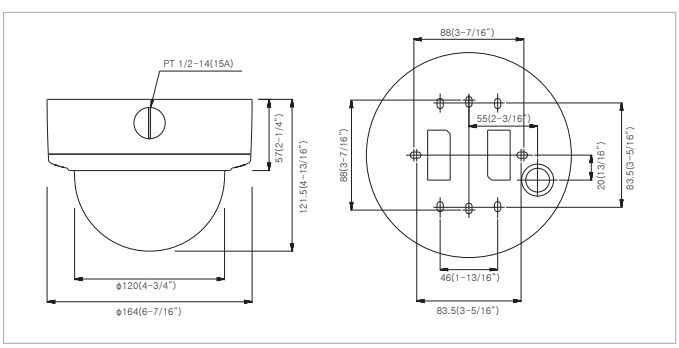
## D1 IR Vandal SuperDome Camera




D1 | PoE | SD SDHC | 3 Axis

## Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 3.3-12mm lens
- 30m IR Beam Distance
- Dual Streaming of H.264 and M-JPEG
- H.264 : 25/30fps/ D1, M-JPEC : 25/30fps/ D1
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Axis
- Vandalproof/ Tamperproof
- IP66 Weatherproof




| MODEL | | VDA110EHi-IR |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| | Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| | Synchronizing system | Internal |
| | Scanning system | NTSC : 525 Lines PAL : 625 Lines |
| | S/N Ratio | More than 52dB (AGC Off) |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 30M |
| | Shutter Speed | NTSC:1/60~1/10,000 sec. PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | Lens | 3.3-12mm Varifocal DC Auto Iris lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to D1(NTSC:720X480, PAL:720X576) |
| | Frame rate | H.264 Up to 30fps at D1 |
| | | MJPEG Up to 30fps at D1 |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recording | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W, Max. 7.2W with IR On |
| | Net Weight | 2000g |
| | LED's | Power, Network Connection |
| | Dimension | 164(Ø) x121.5(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VDA110SM3i

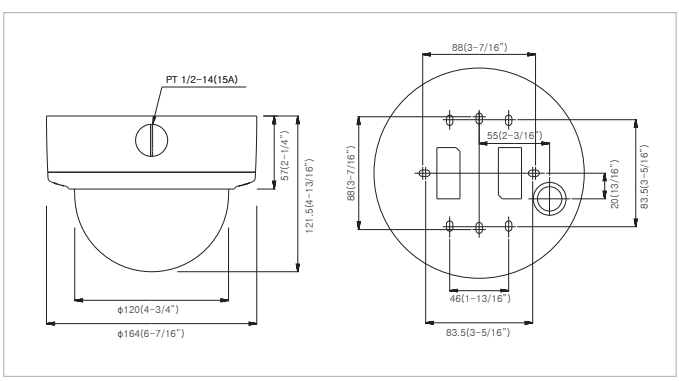
## Full HD Vandal SuperDome Camera




1080p | PoE | SD SDHC | 3 Axis

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- 2.8~10mm lens
- Dual Streaming of H.264 and M-JPEG
- H.264 : 15fps/ 1920x1080, M-JPEC : 15fps/ VGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Axis
- Vandalproof/ Tamperproof
- IP66 Weatherproof




| MODEL | | VDA110SM3i |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2144(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 52dB |
| | Min. Illumination | 1 Lux with DSSX2 |
| | Day & Night | ICR |
| | Lens Control | DC Iris |
| | Lens | 2.8~10mm Vari-focal Megapixel Lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1920 x 1080 |
| | Frame rate | H.264 Up to 15fps with 1920x1080 |
| | | MJPEG Up to 30fps with 720P resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | ATR-EX(WDR) |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP |
| | | RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1920x1080 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | | External output activation/Normal Open/Close Type |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recording | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W |
| | Net Weight | 2000g |
| | LED's | Power, Network Connection |
| | Dimension | 164(Ø) x121.5(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VDA110SMi

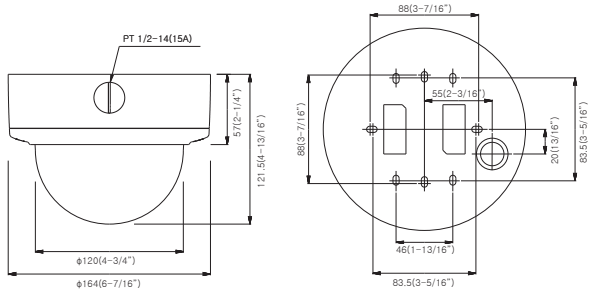
## HD Vandal SuperDome Camera




720p | PoE | SD SDHC | 3 Axis

## Features

- 1.3MP 1/3" Sony progressive scan CMOS image sensor
- 3.5–16mm lens
- Dual Streaming of H.264 and M–JPEG
- H.264 : 30fps/ 1280x720, M–JPEC : 15fps/ VGA
- Integrated motion detection with pre– and post–alarm image/video buffering
- Event–Triggered FTP and email upload of still images and videos
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop–out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid– and end–spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E–Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license–free 16 CH NVR software
- Tool–free 3–Aixs
- Vandalproof/ Tamperproof
- IP66 Weatherproof




| MODEL | | VDA110SMi |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32–bit ARM9 RISC CPU up to 533MHz, 32KB I/D–Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1.3 mega pixel 1/3" SONY progressive scan CMOS image sensor |
| | Total Pixels | 1384(H) x 1076(V) 1.49 Megapixel |
| | Effective Pixels | 1329(H) x 1049(V) 1.39 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0.5 Lux with DSSX2, 30IRE, AGC(on) |
| | Day & Night | ICR |
| | Lens Control | DC Iris |
| | Lens | 3.5~16mm Vari–focal Mega Pixel Lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1280 x 720 |
| | Frame rate | H.264 Up to 30fps with 1280x720 |
| | | MJPEG Up to 15fps with VGA resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | controllable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect – Color, Sharpness, Mirror/V–Flip, etc. |
| | Output | 1 x Composite(Loop–out) (1 Vpp 75 Ohm) |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP |
| | | RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks |
| | Alarm trigger | Intelligent video |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e–mail |
| | | Notification via email, FTP and TCP |
| | | External output activation/Normal Open/Close Type |
| | Video buffer | 16MB pre–alarm and post–alarm |
| | Recording | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W |
| | Net Weight | 2000g |
| | LED's | Power, Network Connection |
| | Dimension | 164(Ø) x121.5(H) |
| Environment | Operating Temperature | –10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | –20 degree~60 degree Celsius (–4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VDA110EHi

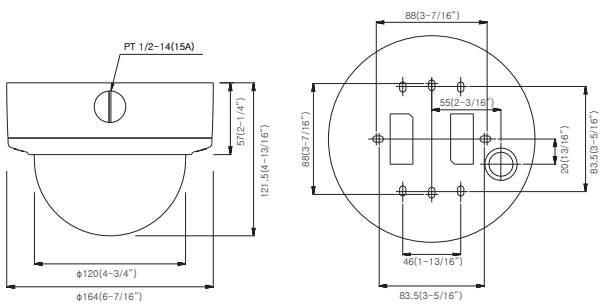
## D1 Vandal SuperDome Camera




D1 | PoE | SD SDHC | 3 Axis

## Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 3.3-12mm lens
- Dual Streaming of H.264 and M-JPEG
- H.264 : 25/30fps/ D1, M-JPEC : 25/30fps/ D1
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Axis
- Vandalproof/ Tamperproof
- IP66 Weatherproof




| MODEL | | VDA110EHi |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| | Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| | Synchronizing system | Internal |
| | Scanning system | NTSC : 525 Lines PAL : 625 Lines |
| | S/N Ratio | More than 52dB (AGC Off) |
| | Min. Illumination | 0.1 Lux |
| | Shutter Speed | NTSC:1/60~1/10,000 sec. PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | Lens | 3.3-12mm Varifocal DC Auto Iris lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to D1(NTSC:720X480, PAL:720X576) |
| | Frame rate | H.264 Up to 30fps at D1 |
| | | MJPEG Up to 30fps at D1 |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recording | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W |
| | Net Weight | 2000g |
| | LED's | Power, Network Connection |
| | Dimension | 164(Ø) x 121.5(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VDA100SM3Ti-IR

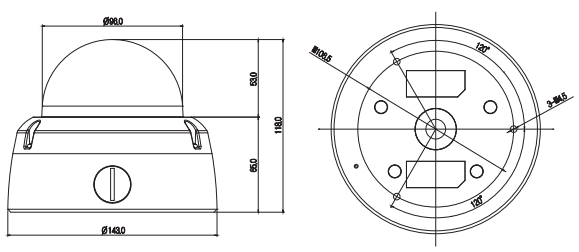
## 3MP IR Vandal Dome Camera




3MP | PoE | SD SDHC | Smart Focus | 3 Axis

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- 2.8~10mm Smart Focus
- 30m IR Beam Distance
- Dual Streaming of H.264 and M-JPEG
- H.264 : 20fps/ 2048x1536, M-JPEC : 20fps/ QVGA
- H.264 : 30fps/ 1920x1080, M-JPEC : 30fps/ QVGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Axis
- Vandalproof/ Tamperproof
- IP66 Weatherproof




| MODEL | | VDA100SM3Ti-IR |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 432MHz |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 128Mbyte |
| | SDRAM | 128Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 30m |
| | Day & Night | ICR |
| | Lens Control | Smart Focus |
| | Lens | 2.8~10mm Smart Focus |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 2048 x 1536 |
| | Frame rate | H.264 Up to 15fps with 2048x1536 |
| | | MJPEG Up to 30fps with 1080p resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 2048x1536 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recoding | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Reset Buttom | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W, Max. 7.2W with IR On |
| | Net Weight | 2000g Appr.(Camera Only) |
| | LED's | Power, Network Connection |
| | Dimension | 164(Ø) x121.5(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VDA100EHi-IR

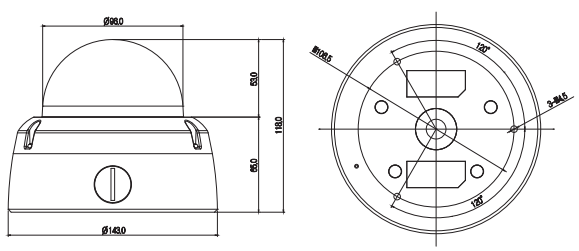
## D1 IR Vandal Dome Camera




D1 | PoE | SD SDHC | 3 Axis

## Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 2.8-12mm lens
- 30m IR Beam Distance
- Dual Streaming of H.264 and M-JPEG
- H.264 : 25/30fps/ D1, M-JPEC : 25/30fps/ D1
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Axis
- Vandalproof/ Tamperproof
- IP66 Weatherproof




| MODEL | | VDA100EHi-IR |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| | Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976( H) x 582(V) |
| | Synchronizing system | Internal |
| | Scanning system | NTSC : 525 Lines PAL : 625 Lines |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 30m |
| | Day & Night | ICR |
| | Shutter Speed | NTSC:1/60~1/10,000 sec. PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | Lens | 2.8~12mm Varifocal DC Auto Iris lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up t o D1(N TSC:7 20X480, PAL:720X576) |
| | Frame rate | H.264 Up to 30fps with D1 |
| | | MJPEG Up to 30fps with D1 |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to D1 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recoding | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Reset Buttom | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W, Max. 7.2W with IR On |
| | Net Weight | 2000g |
| | LED's | Power, Network Connection |
| | Dimension | 143(Ø) x 118(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VDA100SM3Ti

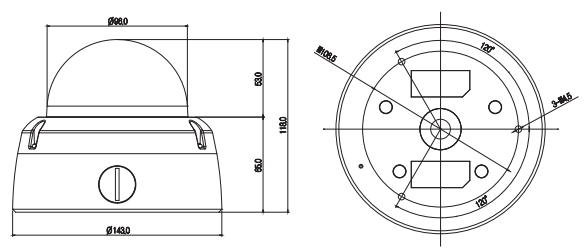
## 3MP Vandal Dome Camera




3MP | PoE | SD SDHC | Smart Focus | 3 Axis

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- 2.8~10mm Smart Focus
- Dual Streaming of H.264 and M-JPEG
- H.264 : 20fps/ 2048x1536, M-JPEC : 20fps/ QVGA
- H.264 : 30fps/ 1920x1080, M-JPEC : 30fps/ QVGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Axis
- Vandalproof/ Tamperproof
- IP66 Weatherproof




| MODEL | | VDA100SM3Ti |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 432MHz |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 128Mbyte |
| | SDRAM | 128Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 1 Lux with DSSX2 |
| | Day & Night | ICR |
| | Lens Control | DC Iris |
| | Lens | 2.8~10mm Smart Focus |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 2048 x 1536 |
| | Frame rate | H.264 Up to 15fps with 2048x1536 |
| | | MJPEG Up to 30fps with 1080p resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 2048x1536 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recoding | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Reset Buttom | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W |
| | Net Weight | 1200g |
| | LED's | Power, Network Connection |
| | Dimension | 143(Ø) x118(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VDA100EHi

## D1 Vandal Dome Camera

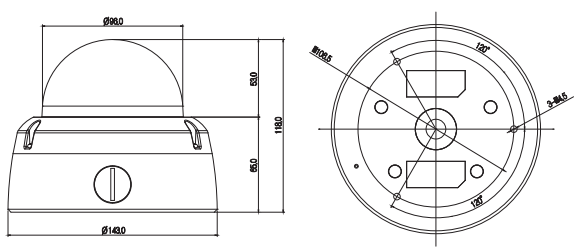





D1 | PoE | SD SDHC | 3 Axis

## Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 2.8-12mm lens
- Dual Streaming of H.264 and M-JPEG
- H.264 : 25/30fps/ D1, M-JPEC : 25/30fps/ D1
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Axis
- Vandalproof/ Tamperproof
- IP66 Weatherproof




| MODEL | | VDA100EHi |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| | Effective pixels | NTSC : 976(H)x494(V), PAL : 976(H)x582(V) |
| | Synchronizing system | Internal |
| | Scanning system | NTSC : 525 Lines PAL : 625 Lines |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0.1 Lux with DSSX2 |
| | Day & Night | ICR |
| | Shutter Speed | NTSC:1/60~1/10,000 sec. PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | Lens | 2.8~12mm Varifocal DC Auto Iris lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up t o D1(N TSC:7 20X480, PAL:720X576) |
| | Frame rate | H.264 Up to 30fps with D1 |
| | | MJPEG Up to 30fps with D1 |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to D1 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recoding | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Reset Buttom | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W |
| | Net Weight | 1200g |
| | LED's | Power, Network Connection |
| | Dimension | 143(Ø) x 118(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VD102SM3Ti-IR

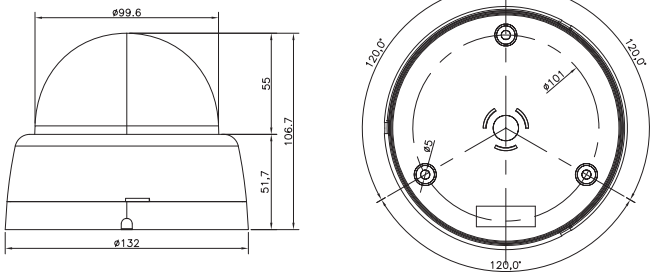
## 3MP IR Indoor Dome Camera




3MP | PoE | SD SDHC | 3 Axis

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- 2.8~10mm
- 30m IR Beam Distance
- Dual Streaming of H.264 and M-JPEG
- H.264 : 20fps/ 2048x1536, M-JPEC : 20fps/ QVGA
- H.264 : 30fps/ 1920x1080, M-JPEC : 30fps/ QVGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Axis




| MODEL | | VD102SM3Ti-IR |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 432MHz |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 128Mbyte |
| | SDRAM | 128Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 30m |
| | Day & Night | ICR |
| | Lens Control | DC Iris |
| | Lens | 2.8~10mm |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 2048 x 1536 |
| | Frame rate | H.264 Up to 15fps with 2048x1536 |
| | | MJPEG Up to 30fps with 1080p resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1920x1080 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recoding | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Reset Buttom | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W, Max. 7.2W with IR On |
| | Net Weight | 520g |
| | LED's | Power, Network Connection |
| | Dimension | 132(Ø) x106.7(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VD102EHi-IR

## D1 IR Indoor Dome Camera

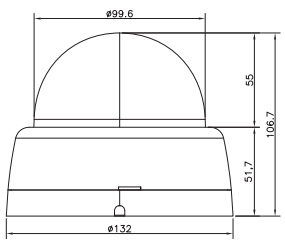


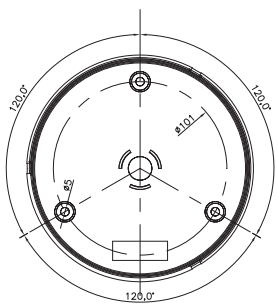



D1 | PoE | SD SDHC | 3 Axis

## Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 2.8-12mm
- 30m IR Beam Distance
- Dual Streaming of H.264 and M-JPEG
- H.264 : 25/30fps/ D1, M-JPEC : 25/30fps/ D1
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Axis




| MODEL | | VD102EHi-IR |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| | Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976( H) x 582(V) |
| | Synchronizing system | Internal |
| | Scanning system | NTSC : 525 Lines PAL : 625 Lines |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0Lux (IR On) |
| | IR Distance | 30m |
| | Day & Night | ICR |
| | Shutter Speed | NTSC:1/60~1/10,000 sec. PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | Lens(Standard) | 2.8~12mm Varifocal DC Auto Iris lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up t o D1(N TSC:7 20X480, PAL:720X576) |
| | Frame rate | H.264 Up to 30fps with D1 |
| | | MJPEG Up to 30fps with D1 |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to D1 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recoding | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Reset Buttom | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W, Max. 7.2W with IR On |
| | Net Weight | 520g |
| | LED's | Power, Network Connection |
| | Dimension | 132(Ø) x106.7(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VD102SM3Ti

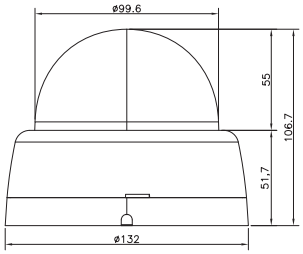
## 3MP Indoor Dome Camera

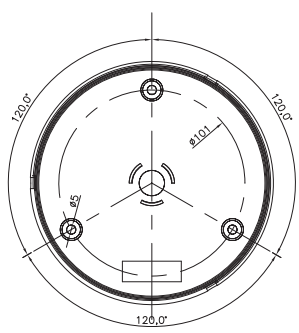



3MP | PoE | SD SDHC | 3 Axis

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- 2.8–10mm
- Dual Streaming of H.264 and M–JPEG
- H.264 : 20fps/ 2048x1536, M–JPEG : 20fps/ QVGA
- H.264 : 30fps/ 1920x1080, M–JPEG : 30fps/ QVGA
- Integrated motion detection with pre– and post–alarm image/video buffering
- Event–Triggered FTP and email upload of still images and videos
- Full Duplex Two–Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop–out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid– and end–spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E–Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license–free 16 CH NVR software
- Tool–free 3–Axis




| MODEL | | VD102SM3Ti |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32–bit ARM9 RISC CPU up to 432MHz |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 128Mbyte |
| | SDRAM | 128Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 1 Lux with DSSX2 |
| | Day & Night | ICR |
| | Lens Control | DC Iris |
| | Lens | 2.8~10mm |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 2048 x 1536 |
| | Frame rate | H.264 Up to 15fps with 2048x1536 |
| | | MJPEG Up to 30fps with 1080p resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect – Color, Sharpness, Mirror/V–Flip, etc. |
| | Output | BNC x1, 1.0Vp–p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two–way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line–In (Mono)–Option |
| | Audio output | Line output/ 1 x Line–Out (Mono)–Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1920x1080 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e–mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre–alarm and post–alarm |
| | Recoding | Save to SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Reset Buttom | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power Over Ethernet) : 802.3af |
| | Power Consumption | Max. 5.5W |
| | Net Weight | 520g |
| | LED's | Power, Network Connection |
| | Dimension | 132(Ø) x106.7(H) |
| Environment | Operating Temperature | –10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | –20 degree~60 degree Celsius (–4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VD102EHi

## D1 Indoor Dome Camera

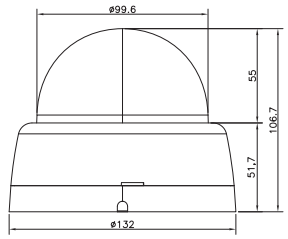


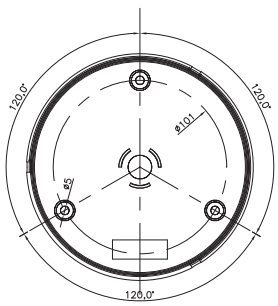



D1 | PoE | SD SDHC | 3 Axis

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- 2.8~10mm/ 3.6mm lens
- Dual Streaming of H.264 and M-JPEG
- H.264 : 15fps/ 1920x1080, M-JPEC : 15fps/ VGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support(Option)
- External microphone input & speaker output connector(Option)
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Axis




| MODEL | | VD102EHi |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| | Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976( H) x 582(V) |
| | Synchronizing system | Internal |
| | Scanning system | NTSC : 525 Lines PAL : 625 Lines |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0.1 Lux with DSSX2 |
| | Day & Night | ICR |
| | Shutter Speed | NTSC:1/60~1/10,000 sec. PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | Lens | 2.8~12mm Varifocal DC Auto Iris lens / 3.6mm |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up t o D1(N TSC:7 20X480, PAL:720X576) |
| | Frame rate | H.264 Up to 30fps with D1 |
| | | MJPEG Up to 30fps with D1 |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio (Option) | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to D1 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recoding | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Reset Buttom | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af(Option) |
| | Power Consumption | Max. 5.5W |
| | Net Weight | 520g |
| | LED's | Power, Network Connection |
| | Dimension | 132(Ø) x106.7(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VD101SMi

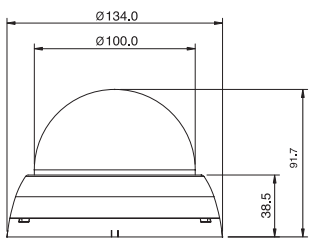
## HD Indoor Dome Camera

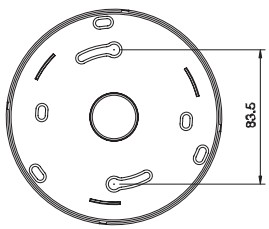



720p | SD SDHC | 3 Axis

## Features

- 1.3MP 1/3" Sony progressive scan CMOS image sensor
- 3.7mm lens
- 30m IR Beam Distance
- Dual Streaming of H.264 and M-JPEG
- H.264 : 30fps/ 1280x720, M-JPEG : 15fps/ VGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Digital PTZ
- UPnP supported
- Micro SD/SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Axis




| MODEL | | VD101SMi |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1.3 Megapixel 1/3" SONY progressive scan CMOS image sensor |
| | Total Pixels | 1384(H) x 1076(V) 1.49 Megapixel |
| | Effective Pixels | 1329(H) x 1049(V) 1.39 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 1 Lux with DSSX2 |
| | Day & Night | Electronic |
| | Lens | 3.7mm |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1280x720 |
| | Frame rate | H.264 Up to 30fps with 1280x720 |
| | | MJPEG Up to 15fps with VGA Resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Controllable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to D1 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recoding | Save to Micro SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Reset Buttom | 1 x Factory Reset Button |
| | Power Source | DC 12V |
| | Power Consumption | Max. 5.5W |
| | Net Weight | 500g |
| | LED's | Power, Network Connection |
| | Dimension | 134(Ø) x91.7(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VC58SM3Ti-ICR

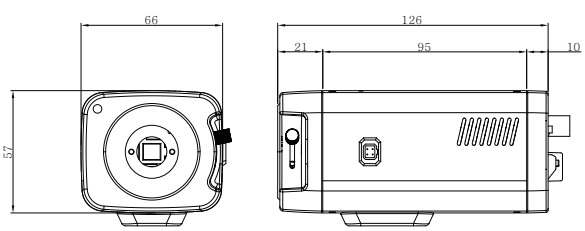
## 3MP True Day/Night Box Camera




3MP | PoE | SD SDHC | True Day/Night ICR

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- Dual Streaming of H.264 and M-JPEG
- H.264 : 20fps/ 2048x1536, M-JPEC : 20fps/ QVGA
- H.264 : 30fps/ 1920x1080, M-JPEC : 30fps/ QVGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support
- External microphone input & speaker output connector
- Digital PTZ
- UPnP supported
- SD card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software




| MODEL | | VC58SM3Ti-ICR |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 432MHz |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 128Mbyte |
| | SDRAM | 128Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 1 Lux with DSSX2 (F1.2, 30IRE, AGC On) |
| | Lens Control | D/N Output Port, ICR |
| | Lens (Not included) | C/CS Mount, DC Iris |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 2048 x 1536 |
| | Frame rate | H.264 Up to 15fps with 2048x1536 |
| | | MJPEG Up to 30fps with 1080p resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Mono)-Option |
| Serial | Port1 | RS-485 |
| | Data Rate | 600bps~ 115200bps |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 2048x1536 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recoding | Save to SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | Reset Buttom | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W |
| | Net Weight | 580g |
| | LED's | Power, Network Connection |
| | Dimension | 66mm(W) X 57mm(H) X 126mm(D) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VC58SM3i-ICR

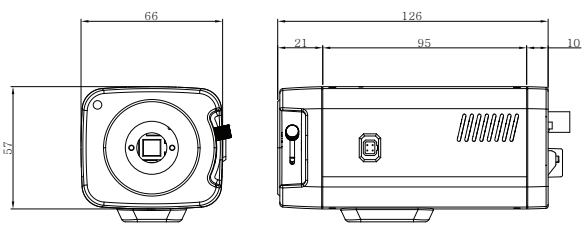
## 1080p True Day/Night Box Camera




1080p | PoE | SD SDHC | True Day/Night ICR

## Features

- 3.0MP 1/2.8" Sony progressive scan CMOS image sensor
- Dual Streaming of H.264 and M-JPEG
- H.264 : 15fps/ 1920x1080, M-JPEC : 15fps/ VGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support
- External microphone input & speaker output connector
- Digital PTZ
- UPnP supported
- SD card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software




| MODEL | | VC58SM3i-ICR |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 3.0 Megapixel 1/2.8" SONY progressive scan CMOS image sensor |
| | Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| | Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| | S/N Ratio | More than 52dB |
| | Min. Illumination | 1 Lux with DSSX2 (F1.2, 30IRE, AGC On), |
| | Day & Night | D/N Output Port, ICR |
| | Lens (Not included) | C/CS Mount, DC Iris |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1920 x 1080 |
| | Frame rate | H.264 Up to 15fps with 1920x1080 |
| | | MJPEG Up to 30fps with 720P resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | ATR-EX(WDR) |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Single Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Single Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| | Wireless LAN | IEEE 802.11 b/g/n (for VC58SM3i-U) |
| System integration | Intelligent video | Motion detection up to 1920x1080 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | | External output activation/Normal Open/Close Type |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recording | Save to SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W |
| | Net Weight | 580g (Camera Only, without Lens) |
| | LED's | Power, Network Connection |
| | Dimension | 66mm(W) X 57mm(H) X 126mm(D) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VC58SMi-ICR

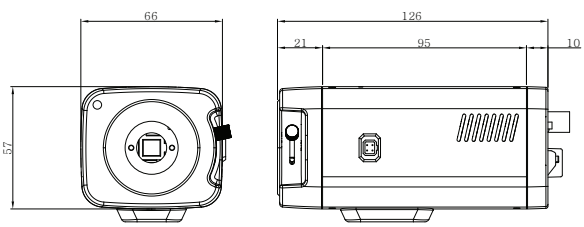
## HD True Day/Night Box Camera




720p | PoE | SD SDHC | True Day/Night ICR

## Features

- 1.3MP 1/3" Sony progressive scan CMOS image sensor
- Dual Streaming of H.264 and M-JPEG
- H.264 : 30fps/ 1280x720, M-JPEC : 15fps/ VGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support
- External microphone input & speaker output connector
- Digital PTZ
- UPnP supported
- SD card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software




| MODEL | | VC58SMi-ICR |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 32 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1.3 Megapixel 1/3" SONY progressive scan CMOS image sensor |
| | Total Pixels | 1384(H) x 1076(V) 1.49 Megapixel |
| | Effective Pixels | 1329(H) x 1049(V) 1.39 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0.5 Lux with DSSX2 (F1.2, 30IRE, AGC On), |
| | Day & Night | D/N Output Port, ICR |
| | Lens (Not included) | C/CS Mount, DC Iris |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 1280 x 720 |
| | Frame rate | H.264 Up to 30fps with 1280x720 |
| | | MJPEG Up to 30fps with VGA resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect – Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Single Mono)-Option |
| | Audio output | Line output/ 1 x Line-Out (Single Mono)-Option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| | Wireless LAN | IEEE 802.11 b/g/n (for VC58SMi-W) |
| System integration | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | | External output activation/Normal Open/Close Type |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recording | Save to SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W |
| | Net Weight | 580g |
| | LED's | Power, Network Connection |
| | Dimension | 66mm(W) X 57mm(H) X 126mm(D) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VC58EHi-ICR

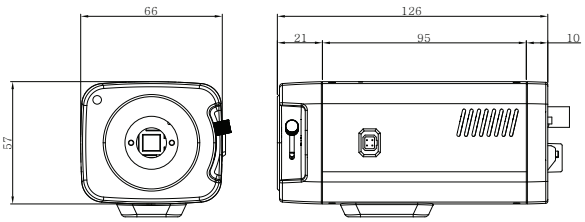
## D1 True Day/Night Box Camera




D1 | PoE | SD SDHC | True Day/Night ICR

## Features

- 1/3" Sony 960H Ex-view HAD CCD II
- Dual Streaming of H.264 and M-JPEG
- H.264 : 25/30fps/ D1, M-JPEC : 25/30fps/ D1
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support
- External microphone input & speaker output connector
- Digital PTZ
- UPnP supported
- SD card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC/ IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software




| MODEL | | VC58EHi-ICR |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| | Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| | Synchronizing system | Internal |
| | Scanning system | NTSC : 525 Lines PAL : 625 Lines |
| | S/N Ratio | More than 52dB (AGC Off) |
| | Min. Illumination | 0.1 Lux |
| | Shutter Speed | NTSC:1/60~1/10,000 sec. PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | Iris Control | DC/ Manual |
| | Day & Night | D/N Output Port, ICR |
| | Lens (Not included) | C/CS Mount, DC Iris |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to D1(NTSC:720X480, PAL:720X576) |
| | Frame rate | H.264 Up to 30fps at D1 |
| | | MJPEG Up to 30fps at D1 |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect - Color, Sharpness, Mirror/V-Flip, etc. |
| | Output | BNC x1, 1.0Vp-p, 75 ohm Composite Video, NTSC/PAL |
| Audio | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Single Mono)-option |
| | Audio output | Line output/ 1 x Line-Out (Single Mono)-option |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| | Wireless LAN | IEEE 802.11 b/g/n (for VC58EHi-W) |
| System integration | Intelligent video | Motion detection up to D1 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | | External output activation/Normal Open/Close Type |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recording | Save to SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 5.5W |
| | Net Weight | 580g |
| | LED's | Power, Network Connection |
| | Dimension | 66mm(W) X 57mm(H) X 126mm(D) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

# VDA50SMi

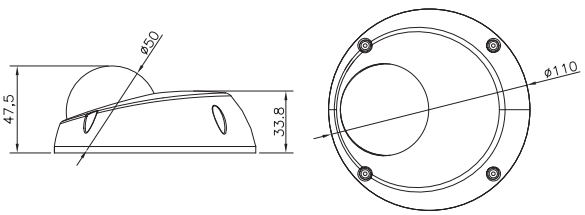
## HD Slim Vandal Dome Camera



720p | PoE | SD SDHC | IP 66

## Features

- 1.3MP 1/3" Sony progressive scan CMOS image sensor
- 3.0mm board lens
- Dual Streaming of H.264 and M-JPEG
- H.264 : 30fps/ 1280x720, M-JPEC : 15fps/ VGA
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-Triggered FTP and email upload of still images and videos
- Digital PTZ
- UPnP supported
- SDHC card slot, event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port
- Supports CBR and VBR modes
- Supports 12VDC or IEEE 802.3af PoE injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported(Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Window based IP installer and license-free 16 CH NVR software
- Tool-free 3-Aixs
- Vandalproof/ Tamperproof
- IP66 Weatherproof




| MODEL | | VDA50SMi |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Image Pickup | Image sensor | 1.3 Megapixel 1/3" SONY progressive scan CMOS image sensor |
| | Total Pixels | 1384(H) x 1076(V) 1.49 Megapixel |
| | Effective Pixels | 1329(H) x 1049(V) 1.39 Megapixel |
| | S/N Ratio | More than 50dB |
| | Min. Illumination | 0.5 Lux with DSSX2 (F1.2, 30IRE, AGC On) |
| | Lens | 3.0mm Megapixel Board Lens |
| Video | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to 720p (1280 X 720) |
| | Frame rate | H.264 Up to 30fps with 1280x720 |
| | | MJPEG Up to 15fps with VGA resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | Adjustable frame rate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | Digital PTZ |
| | Image setting | Day & Night |
| | | Auto White Balance |
| | | Auto Exposure |
| | | Privacy Mask |
| | | Effect – Color, Sharpness, Mirror/V-Flip, etc. |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to 1280x720 with 32x24 blocks |
| | Alarm trigger | Motion detection |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recording | Save to Micro SD card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | PoE (Power over Ethernet): 802.3af or 12VDC |
| | Power Consumption | Max. 4.2W |
| | Net Weight | 380g |
| | LED's | Power, Network Connection |
| | Dimension | 110(Ø) x47.5(H) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| | IP Grade | IP67 |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, User Manual, Software CD |

# NVS102

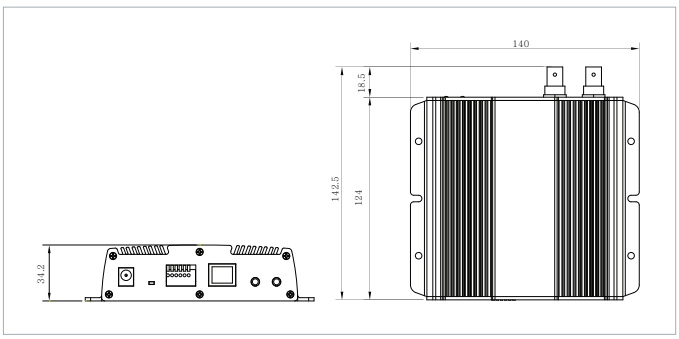
## 1CH Network Video Server



D1 PoE SD SDHC

## Features

- Dual Streaming of H.264 and M-JPEG
- Up to 30 frames per second in all image resolutions
- Supports image resolutions up to D1
- Integrated motion detection with pre- and post-alarm image/video buffering
- Event-triggered FTP and email upload of still images and videos
- Full Duplex Two-Way Audio Support
- Support PTZ control (with Pelco-D/P protocol)
- Digital PTZ
- SD/SDHC Local storage, Event triggered, scheduled and continuous recording supported
- 1 Port analog video loop-out port (Concurrent use of IP video & CCTV)
- External microphone input & speaker output connector
- Terminal block for external sensors or external alarm devices
- Supports CBR (constant bit rate) and VBR (variable bit rate) modes
- Controllable frame rate
- Video access through any standard Web browser
- Supports IEEE 802.3af Power over Ethernet injectors, mid- and end-spans
- Integrated HTTP Web server supporting 50 simultaneous user connections
- HTTPS supported (Hyper Text Transfer Protocol Secured)
- Integrated E-Mail, FTP, DDNS and DHCP client
- Extensive CGI API for software integration and remote programming operations
- Including Windows based IP Installer and NVR(Network Video Recorder) software for up to 16 channels




| MODEL | | NVS102 |
|---|---|---|
| Classification | | Specification |
| General | CPU | 32-bit ARM9 RISC CPU up to 533MHz, 32KB I/D-Cache, MMU |
| | Video Buffer | 16Mbyte Video Frame Buffer |
| | Flash | 16 Mbyte Flash Memory |
| | SDRAM | 256Mbyte |
| Video | Analog Video Input | 1 channel input through BNC |
| | Video compression | H.264 baseline profile, Motion JPEG |
| | Resolutions | Up to D1 (NTSC 720x480, PAL 720x576) |
| | Frame rate | H.264 Up to 30fps with D1 |
| | | MJPEG Up to 30fps with VGA resolution |
| | Video streaming | Support multi stream with H.264, MJPEG |
| | | controllable framerate |
| | | VBR/CBR in H.264 |
| | Pan/Tilt/Zoom | PTZ camera control via Pelco-D/P protocol |
| | | Digital PTZ, Preset, tour |
| | Image setting | Brightness, Contrast, Sharpness control |
| | Output | 1 x Composite(Loop-out) (1 Vpp 75 Ohm) |
| Audio | Audio streaming | Two-way, full duplex |
| | Audio compression | G.711 |
| | Sample Rate | 8KHZ |
| | Data Rate | 64Kbps |
| | Audio input | Microphone input /1 x Line-In (Single Mono) |
| | Audio output | Line output/ 1 x Line-Out (Single Mono) |
| Serial | Port | RS-485, RS-232 (Internal Port for Console) |
| | Data Rate | 600bps~ 115200bps |
| Network | Security | Password protection |
| | | User access log |
| | | HTTPS encryption |
| | Supported protocol | HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP |
| System integration | Intelligent video | Motion detection up to D1 with 32x24 blocks |
| | Alarm trigger | Intelligent video |
| | | External input/Normal Open/Close Type |
| | Alarm events | File upload via ftp, e-mail |
| | | Notification via email, FTP and TCP |
| | | External ouput activation/Normal Open/Close Type |
| | Video buffer | 16MB pre-alarm and post-alarm |
| | Recording | Save to SD/SDHC card with event mode and continuous mode |
| | Firmware upgrade | Remote upgrade via network |
| | API | CGI Interface document |
| | | ActiveX Interface(ocx(dll) + document) |
| Physical | RESET Button | 1 x Factory Reset Button |
| | Power Source | DC 12V/1.5A, PoE(Power over Ethernet): 802.3af |
| | Power Consumption | Max. 3.5W |
| | Net Weight | 1.2Kg |
| | LED's | Power, Network Connection |
| | Dimension | 140mm(W) X347mm(H) X 124mm(D) |
| Environment | Operating Temperature | -10 degree~50 degree Celsius (14F~122F) |
| | Storage Temperature | -20 degree~60 degree Celsius (-4F~140F) |
| Software | Included Software | NVR Lite (16 Channel), IP Installer (Windows Only) |
| Package | Package Contents | Network Camera, Use Manual, External Power Adaptor, Software CD |

*Security Innovation*

# H D c c t v




VISION

www.visionipvideo.com

www.visionhitech.co.kr

# VA100FHD-VL60

## Full HD 12x Smart Focus Apache Camera

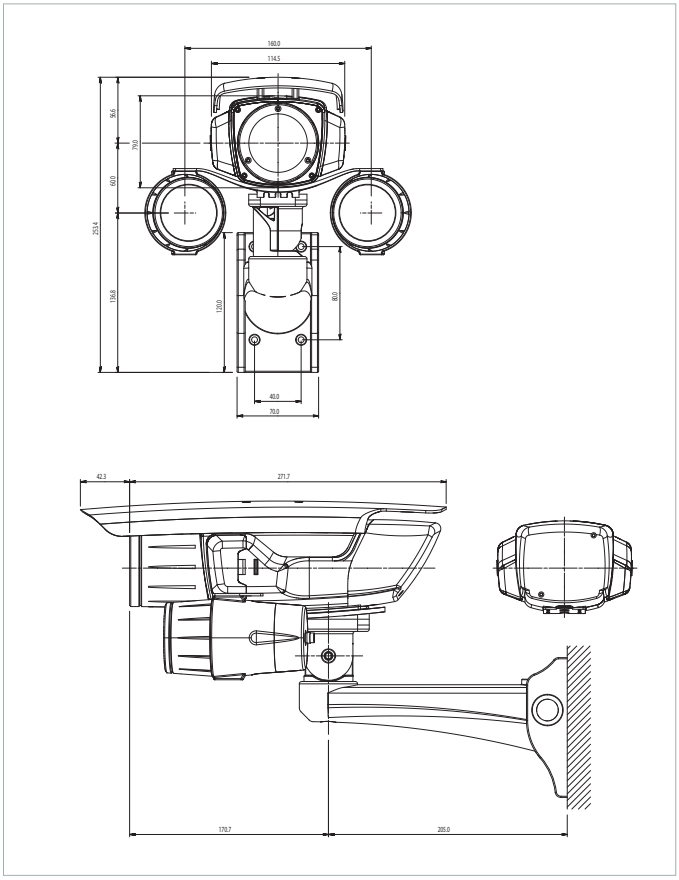


1080p | Smart Focus | ATR | IP 66

| MODEL | VA100FHD-VL60 |
|---|---|
| Sensor Device | Sony 1/2.8" progressive scan CMOS, 3 Mega pixel |
| Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| Scanning System | Progressive Scan |
| Horizontal | More than 1100 TVL |
| S/N Ratio | More than 52dB |
| Min. Illumination | 0 Lux (IR On) |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1920 x 1080P 60/50/30/25/59.94/29.97, 1920x 1080i 60/50/59.94/ |
| | 1280x 720P 60/50/30/25//59.94/29.97 (Mode Select) |
| Video Output Format | 2.97 G/s, 3G-SDI Output (SMPTE 424M) |
| AV Output | 1V p-p Composite, 75 Ohms |
| Digital Output | SDI Output |
| Day & Night | ICR |
| Serial Port | RS485 |
| Lens | 12x(5-60mm)Smart Focus |
| Lens Control | Smart Focus |
| IR Distance | 70M |
| Power Source | DC 24V(IR Off:330mA, IR On:550mA) |
| Operating Temperature | -10° C ~ 50° C |
| Storage Temperature | -20° C ~ 60° C |
| Operating Humidity | Under 90% Non-condensing |
| OSD | Video Mode / D&N / AWB / AE /Privacy Mask / Flickerless / |
| | Brightness / Sharpness / Mirror & Flip / DSS/DNR, etc. |

## Features

- Uncompressed high quality Full HD video with full frame rate
- Standard 3G-SDI video interface
- Patented intelligent IR protection technology
- Simple and convenient motorized lens control of tele/wide and focus+/- (Simple focus adjustment)
- Remote lens control via standard controller (RS485)
- Extended IR life cycle
- Full HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.8 inch Progressive scan 3M CMOS Sensor
- Up to 1920X1080p resolution
- 12x(5-60mm)Smart Focus (Control with simple Focus Adjustment)
- Built-in Auto Iris with IR cut Filter
- Quick and easy OSD control
- Composite video output for instant camera test
- 2D/3D DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- Long IR beam Distance : up to 70M View at "0" Lux
- Dust and Moisture free (IP66 Weatherproof)
- Protection from extreme temperature range of -10℃~+50℃
- DC24V



# VN7XFHD

## Full HD 12x Motorized Zoom IR Outdoor Camera

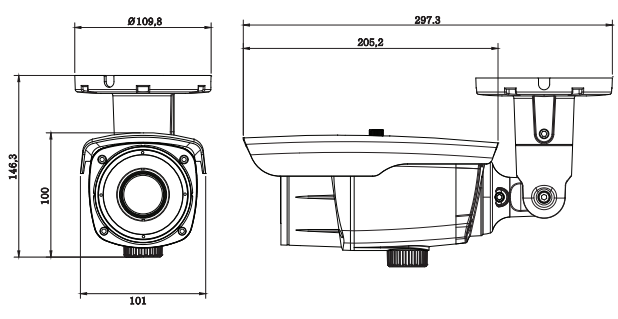



1080p | Motorized Zoom | ATR | IP 67

## Features

- Uncompressed high quality Full HD video with full frame rate
- Standard 3G-SDI video interface
- Patented intelligent IR protection technology
- Extended IR life cycle
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.8 inch Progressive scan 3M SONY CMOS Sensor
- Up to 1920X1080p resolution
- 5-60mm VF Motorized Lens (Control with Simple Focus Adjustment.)
- Built-in Auto Iris with IR cut Filter
- Quick and easy OSD control
- Test video output for instant camera test
- Composite video output for conventional use with SD DVR
- 2D/3D DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD ( Using controllers, etc. )
- Privacy Masking
- Long IR beam Distance : up to 30M View at "0" Lux
- 3-Axis concealed bracket
- Dust and Moisture free (IP67 Weatherproof)
- Protection from extreme temperature range of -40℃~+50℃ - w/ additional heater
- DC12V

| MODEL | VN7XFHD |
|---|---|
| Sensor Device | Sony 1/2.8" progressive scan CMOS, 3Megapixel |
| Total Pixels | 2144(H) x1588(V) 3.4 Megapixel |
| Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| Scanning System | Progressive Scan |
| Horizontal | More than 1100 TVL |
| S/N Ratio | More than 52dB |
| Min. Illumination | 0 Lux (IR On) |
| Shutter Speed | 1/60s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1920 x 1080P 60/50/30/25/59.94/29.97, 1920x 1080i 60/50/59.94/ |
| | 1280x 720P 60/50/30/25//59.94/29.97 (Mode Select) |
| Video Output Format | 2.97G/s, 3G-SDI Output (SMPTE 424M) |
| AV Output | 1V p-p Composite, 75 Ohms |
| Digital Output | SDI Output |
| Day & Night | ICR |
| Serial Port | RS485 |
| Lens | 5-60 mm Vari-focal Auto Iris Megapixel Lens with Built-in IR cut filter |
| Lens Control | Motorized Lens Control. (Simplified Adjustment) |
| IR Distance | 30M |
| Power Source | DC 12V |
| Operating Temperature | -10° C ~ 50° C (-40℃~+50℃ with Heater) |
| Storage Temperature | -20° C ~ 70° C |
| Operating Humidity | Under 90% Non-condensing |
| OSD | Video Mode / D&N / AWB / AE /Privacy Mask / Flickerless / |
| | Brightness / Sharpness / Mirror & Flip / DSS/DNR, etc. |



# VN7XHD

## HD 12x Motorized Zoom IR Outdoor Camera

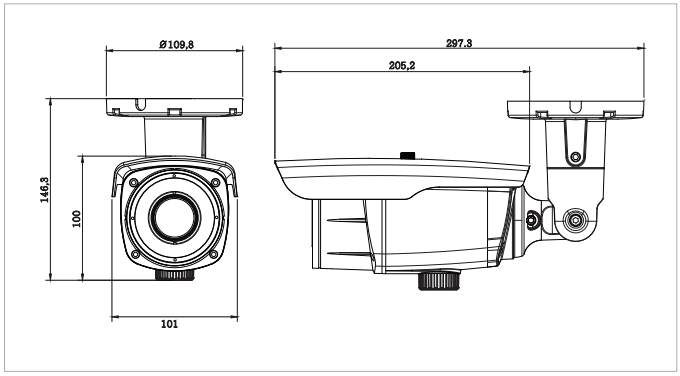



720p | Motorized Zoom | IP 67

| MODEL | VN7XHD |
|---|---|
| Sensor Device | Sony 1/3" progressive scan CMOS, 1.3 Mega pixel |
| Total Pixels | 1384(H) x 1076(V) 1.49 Megapixel |
| Effective Pixels | 1329(H) x 1049(V) 1.39 Megapixel |
| Scanning System | Progressive Scan |
| Horizontal | More than 800 TVL |
| S/N Ratio | More than 50dB |
| Min. Illumination | 0 Lux (IR On) |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1280 x 720p 60/50/30/25 (Mode Select) |
| Video Output Format | 1.485G/s, HD-SDI Output (SMPTE 292M) |
| AV Output | 1V p-p Composite, 75 Ohms |
| Digital Output | SDI Output |
| Day & Night | ICR |
| Serial Port | RS485 |
| Lens | 5-60 mm Vari-focal Auto Iris Megapixel Lens with Built-in IR cut filter |
| Lens Control | Motorized Lens Control, (Simplified Adjustment) |
| IR Distance | 30M |
| Power Source | DC 12V(IR Off:500mA, IR On:1A) |
| Operating Temperature | -10° C ~ 50° C |
| Storage Temperature | -20° C ~ 70° C |
| Operating Humidity | Under 90% Non-condensing |
| OSD | Video Mode / D&N / AWB / AE /Privacy Mask / Flickerless / |
| | Brightness / Sharpness / Mirror & Flip / DSS/DNR, etc. |

## Features

- Uncompressed high quality HD video with full frame rate
- Standard HD-SDI video interface
- Patented intelligent IR protection technology
- Simple and convenient motorized lens control of tele/wide and focus+/- (Simple focus adjustment)
- Remote lens control via standard controller (RS485)
- Extended IR life cycle
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/3 inch Progressive scan 1.3M CMOS Sensor
- Up to 1280X720p resolution
- 5-60mm VF Motorized control Lens
- Built-in Auto Iris with IR cut Filter
- Quick and easy OSD control
- Test video output for instant camera test
- 2D DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- Long IR beam Distance : up to 30M View at "0" Lux
- 3-Axis concealed bracket
- Dust and Moisture free (IP67 Weatherproof)
- Protection from extreme temperature range of -10℃~+50℃
- DC12V



# VN40SFHD-IR

## Full HD IR Bullet Camera



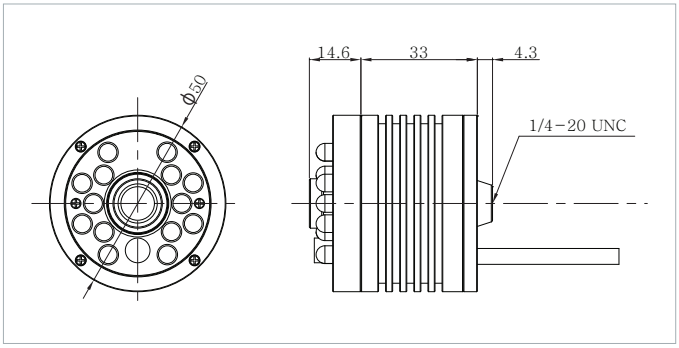
1080p ACCE 2D + 3D

## Features

- Uncompressed high quality Full HD video with full frame rate
- Standard 1.485G/s video interface
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.9 inch Progressive scan 2M SONY CMOS Sensor
- Up to 1920X1080 30p resolution
- Diverse video outputs for diverse applications. ( HD-SDI & Composite )
- 2D/3DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD ( Using controllers, etc. )
- Privacy Masking
- Night Sensitivity up to 10M
- 12VDC

| MODEL | VN40SFHD-IR |
|---|---|
| Image sensor | Sony 1/2.9" progressive scan CMOS, 2Megapixel |
| Total Pixels | 2000(H) x 1241(V) 2.48 Megapixel |
| Effective Pixels | 1984(H) x 1105(V) 2.19 Megapixel |
| H. Resolution | More than 1000 TVL |
| Scanning system | Progressive Scan |
| AV Output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1280 x 720 60p, 1920 x 1080 30p (Mode Select) |
| Video Output Format | 1.485G/s, HD-SDI Output (SMPTE 292M) |
| Digital Output | SDI Output |
| Day & Night | ICR |
| Serial Port | RS485 |
| Power source | 12VDC |
| Operating current | 200mA/12VDC(IR Off), 330mA/12VDC(IR On) |
| Lens | 3.7mm(90 ° ) |
| Viewable Distance | Up to 10M Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10° C ~ 50° C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 134(Φ) x 91.7(H) |
| Weight (Approx.g) | 400 |

| Function | |
|---|---|
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-Up | Off/x2 ~ x60 |
| Shutter speed | 1/30~50,000sec(NTSC), 1/25~50,000sec(PAL) |
| LANGUAGE | English, Japanese, Chinese |
| Privacy Mask | Off / On (8 Zone setting available & Mosaic) |
| Motion Detection | Off / On (3 Zone setting available & Mosaic) |
| White Balance | ATW/AWC→SET/INDOOR/OUTDOOR/MANUAL |
| BLC | Off / BLC / HLC |
| DEFOG | Off / On (User selectable by OSD) |



# VN40SFHD

## Full HD Bullet Camera



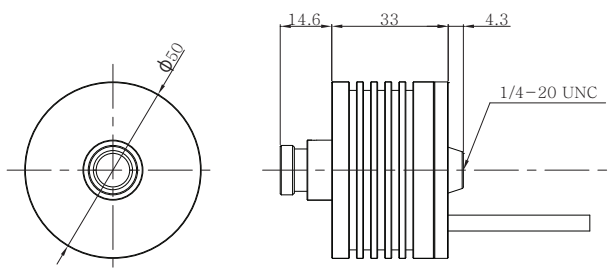
1080p ACCE 2D + 3D

## Features

- Uncompressed high quality Full HD video with full frame rate
- Standard 1.485G/s video interface
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.9 inch Progressive scan 2M SONY CMOS Sensor
- Up to 1920X1080 30p resolution
- Diverse video outputs for diverse applications.( HD-SDI & Composite )
- 2D/3DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- 12VDC

| MODEL | VN40SFHD |
|---|---|
| Image sensor | Sony 1/2.9" progressive scan CMOS, 2Megapixel |
| Total Pixels | 2000(H) x 1241(V) 2.48 Megapixel |
| Effective Pixels | 1984(H) x 1105(V) 2.19 Megapixel |
| H. Resolution | More than 1000 TVL |
| Scanning system | Progressive Scan |
| AV Output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 1.0 Lux with Sens-Up X2 (F1.2, 30IRE, AGC On) |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1280 x 720 60p, 1920 x 1080 30p (Mode Select) |
| Video Output Format | 1.485G/s, HD-SDI Output (SMPTE 292M) |
| Digital Output | SDI Output |
| Day & Night | Digital Day & Night |
| Serial Port | RS485 |
| Power source | 12VDC |
| Operating current | 160mA |
| Lens | 3.7mm(90 ° ) |
| Iris Control | Auto |
| Operating temp./Humidity | -10° C ~ 50° C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 134(Φ) x 91.7(H) |
| Weight (Approx.g) | 300 |

| Function | |
|---|---|
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-Up | Off/x2 ~ x60 |
| Shutter speed | 1/30~50,000sec(NTSC), 1/25~50,000sec(PAL) |
| LANGUAGE | English, Japanese, Chinese |
| Privacy Mask | Off / On (8 Zone setting available & Mosaic) |
| Motion Detection | Off / On (3 Zone setting available & Mosaic) |
| White Balance | ATW/AWC→SET/INDOOR/OUTDOOR/MANUAL |
| BLC | Off / BLC / HLC |
| DEFOG | Off / On (User selectable by OSD) |



# VDA110FHD-IR

## Full HD IR Vandal SuperDome Camera

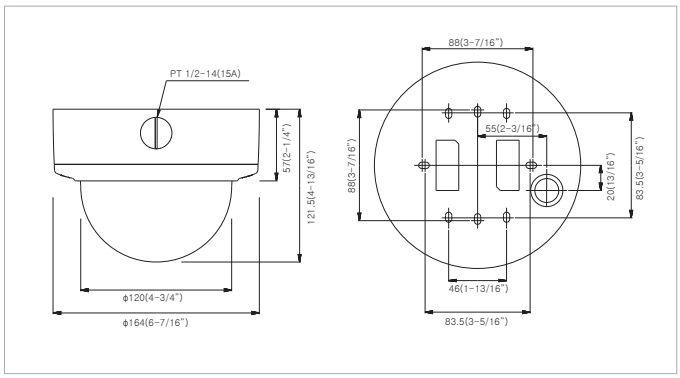


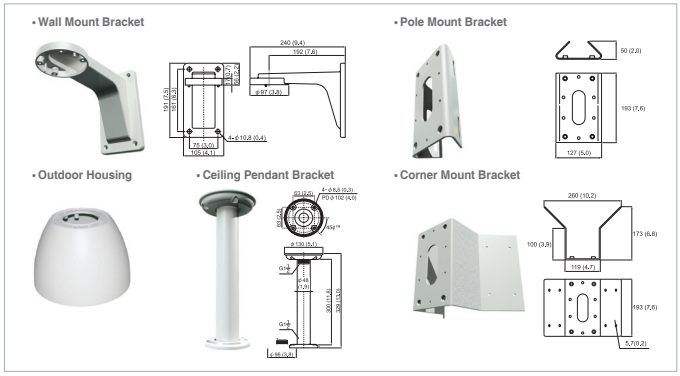

1080p | ATR | 3 Axis | IP 66

## Features

- Uncompressed high quality Full HD video with full frame rate
- Standard 3G-SDI video interface
- Patented intelligent IR protection technology
- Extended IR life cycle
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.8 inch Progressive scan 3M SONY CMOS Sensor
- Up to 1920X1080p resolution
- Quick and easy OSD control
- Perfect tool-free 3-Axis mechanism
- Composite video output for instant camera test
- 2D/3D DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD ( Using controllers, etc. )
- Privacy Masking
- Long IR beam Distance : up to 20M View at "0" Lux
- Vandal-proof , Fire resistant, Tamper resistant
- Dust and Moisture free (IP66 Waterproof)
- Protection from extreme temperature range of -40℃~+50℃ - W/Additional heater
- DC12V

| MODEL | VDA110FHD-IR |
|---|---|
| Sensor Device | Sony 1/2.8" progressive scan CMOS, 3Megapixel |
| Total Pixels | 2144(H) x1588(V) 3.4 Megapixel |
| Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| Scanning System | Progressive Scan |
| Horizontal | More than 1100 TVL |
| S/N Ratio | More than 52dB |
| Min. Illumination | 0 Lux |
| Shutter Speed | 1/60s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1920 x 1080P 60/50/30/25/59.94/29.97, 1920x 1080i 60/50/59.94/ |
| | 1280x 720P 60/50/30/25//59.94/29.97 (Mode Select) |
| Video Output Format | 2.97G/s, 3G-SDI Output (SMPTE 424M) |
| AV Output | 1V p-p Composite, 75 Ohms |
| Digital Output | SDI Output |
| Day & Night | ICR |
| Serial Port | RS485 |
| Lens | 2.8~10mm Vari-focal Megapixel Lens |
| Lens Control | DC IRIS Lens |
| IR Distance | 20M |
| Power Source | DC 12V(9~19V) |
| Operating Temperature | -10° C ~ 50° C (-40℃~+50℃ with Heater) |
| Storage Temperature | -20° C ~ 70° C |
| Operating Humidity | Under 90% Non-condensing |
| Measurement (mm) | 164(Ø) x121.5(H) |
| Weight ( Approx.) | 2,000 g |
| OSD | Video Mode / D&N / AWB / AE /Privacy Mask / Flickerless / |
| | Brightness / Sharpness / Mirror & Flip / DSS/DNR, etc. |



# VDA110HD-IR

## HD IR Vandal SuperDome Camera

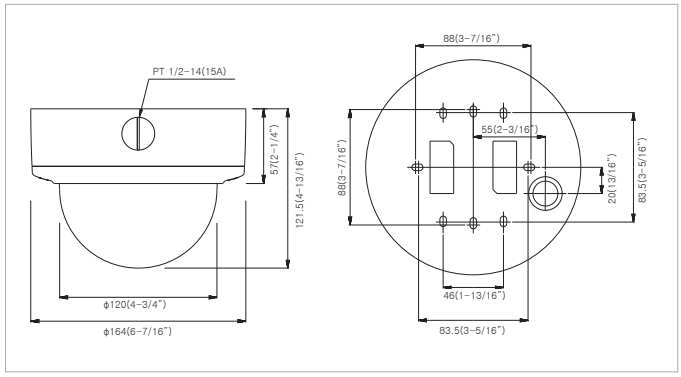


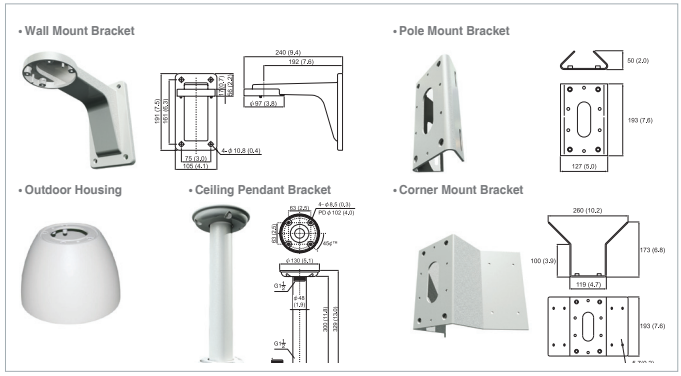

720p | 3 Axis | IP 66

## Features

- Uncompressed high quality HD video with full frame rate
- Standard HD-SDI video interface
- Patented intelligent IR protection technology
- Extended IR life cycle
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/3 inch Progressive scan 1.3M SONY CMOS Sensor
- Up to 1280X720 60p resolution
- Quick and easy OSD control
- Perfect tool-free 3-Axis mechanism
- Composite video output for instant camera test
- DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- Long IR beam Distance : up to 20M View at "0" Lux
- Vandal-proof , Fire resistant, Tamper resistant
- Dust and Moisture free (IP66 Waterproof)
- Protection from extreme temperature range of -40℃~+50℃ - W/Additional heater
- DC12V

| MODEL | VDA110HD-IR |
|---|---|
| Sensor Device | Sony 1/3" progressive scan CMOS, 1.3Megapixel |
| Total Pixels | 1384(H) x 1076(V) 1.49 Megapixel |
| Effective Pixels | 1329(H) x 1049(V) 1.39 Megapixel |
| Scanning System | Progressive Scan |
| Horizontal | More than 800 TVL |
| S/N Ratio | More than 50dB |
| Min. Illumination | VDA110HD-IR : 0 Lux (IR On) |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1280 x 720p 59.94/50 (Mode Select) |
| Video Output Format | 1.485G/s, HD-SDI Output (SMPTE 292M) |
| AV Output | 1V p-p Composite. 75 Ohms |
| Digital Output | SDI Output |
| Day & Night | D/N Output Port, ICR |
| Serial Port | RS485 |
| Lens | 3.5~16mm Vari-focal Megapixel Lens |
| Lens Control | DC IRIS Lens |
| IR Distance | 20M |
| Power Source | DC 12V(9~19V) |
| Operating Temperature | -10° C ~ 50° C (-40℃~+50℃ with Heater) |
| Storage Temperature | -20° C ~ 70° C |
| Operating Humidity | Under 90% Non-condensing |
| Measurement (mm) | 164(Ø) x121.5(H) |
| Weight ( Approx.) | 2,000 g |
| OSD | Video Mode / D&N / AWB / AE /Privacy Mask / Flickerless / |
| | Brightness / Sharpness / Mirror & Flip / DSS/DNR, etc. |



# VDA110FHD

## Full HD Vandal SuperDome Camera

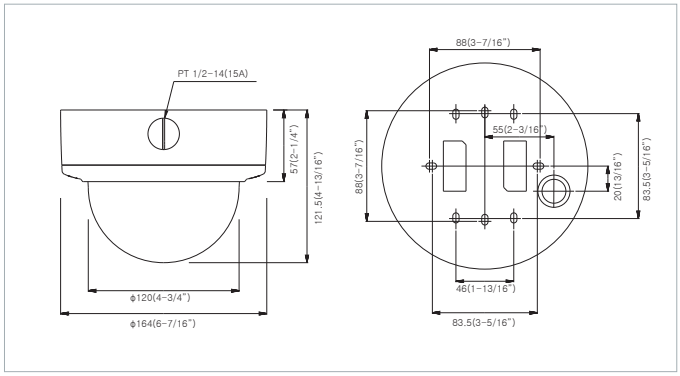


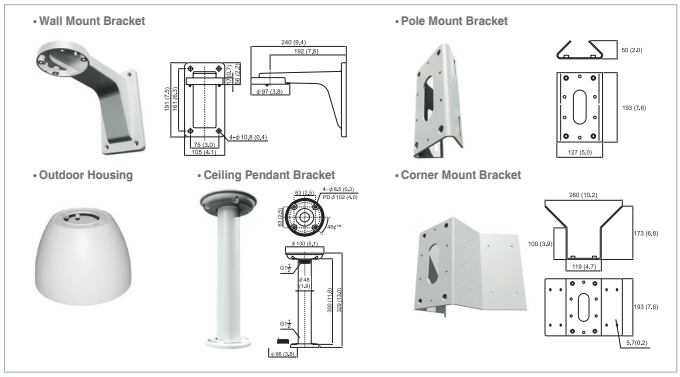

1080p | ATR | 3 Axis | IP 66

## Features

- Uncompressed high quality Full HD video with full frame rate
- Standard 3G-SDI video interface
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.8 inch Progressive scan 3M SONY CMOS Sensor
- Up to 1920X1080p resolution
- Quick and easy OSD control
- Perfect tool-free 3-Axis mechanism
- Composite video output for instant camera test
- 2D/3D DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- Vandal-proof , Fire resistant, Tamper resistant
- Dust and Moisture free (IP66 Waterproof)
- Protection from extreme temperature range of -40℃~+50℃ - W/Additional heater
- DC12V

| MODEL | VDA110FHD |
|---|---|
| Sensor Device | Sony 1/2.8" progressive scan CMOS, 3Megapixel |
| Total Pixels | 2144(H) x1588(V) 3.4 Megapixel |
| Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| Scanning System | Progressive Scan |
| Horizontal | More than 1100 TVL |
| S/N Ratio | More than 52dB |
| Min. Illumination | VDA110FHD : 1 Lux with DSSX2 (F1.2, 30IRE, AGC On) |
| Shutter Speed | 1/60s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1920 x 1080P 60/50/30/25/59.94/29.97, 1920x 1080i 60/50/59.94/ |
| | 1280x 720P 60/50/30/25//59.94/29.97 (Mode Select) |
| Video Output Format | 2.97G/s, 3G-SDI Output (SMPTE 424M) |
| AV Output | 1V p-p Composite, 75 Ohms |
| Digital Output | SDI Output |
| Day & Night | ICR |
| Serial Port | RS485 |
| Lens | 2.8~10mm Vari-focal Megapixel Lens |
| Lens Control | DC IRIS Lens |
| IR Distance | 30M (21 Built-in IR LED's with CDS) |
| Power Source | DC 12V(9~19V) |
| Operating Temperature | -10° C ~ 50° C (-40℃~+50℃ with Heater) |
| Storage Temperature | -20° C ~ 70° C |
| Operating Humidity | Under 90% Non-condensing |
| Measurement (mm) | 164(Ø) x121.5(H) |
| Weight ( Approx.) | 1,900 g |
| OSD | Video Mode / D&N / AWB / AE /Privacy Mask / Flickerless / |
| | Brightness / Sharpness / Mirror & Flip / DSS/DNR, etc. |



# VDA110HD

## HD Vandal SuperDome Camera

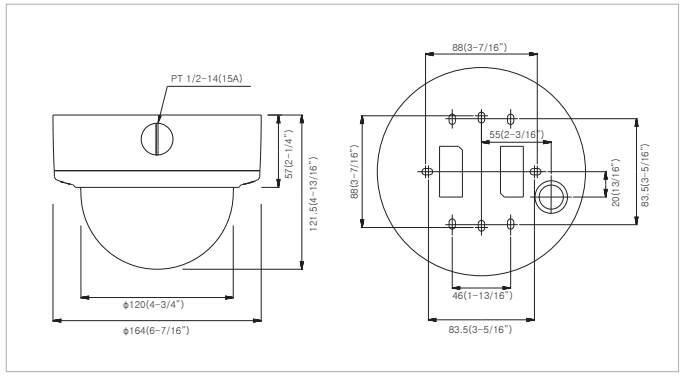


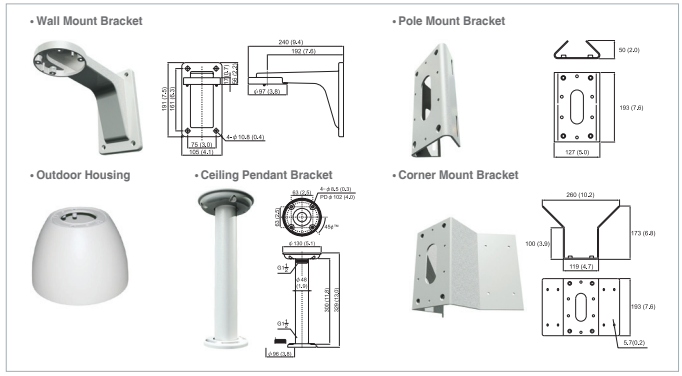

720p | 3 Axis | IP 66

| MODEL | VDA110HD |
|---|---|
| Sensor Device | Sony 1/3" progressive scan CMOS, 1.3Megapixel |
| Total Pixels | 1384(H) x 1076(V) 1.49 Megapixel |
| Effective Pixels | 1329(H) x 1049(V) 1.39 Megapixel |
| Scanning System | Progressive Scan |
| Horizontal | More than 800 TVL |
| S/N Ratio | More than 50dB |
| Min. Illumination | 0.5 Lux with DSSX2 (F1.2, 30IRE, AGC On) |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1280 x 720P 59.94/50 (Mode Select) |
| Video Output Format | 1.485G/s, HD-SDI Output (SMPTE 292M) |
| AV Output | 1V p-p Composite, 75 Ohms |
| Digital Output | SDI Output |
| Day & Night | D/N Output Port, ICR |
| Serial Port | RS485 |
| Lens | 3.5~16mm Vari-focal Megapixel Lens |
| Lens Control | DC IRIS Lens |
| Power Source | DC 12V(9~19V) |
| Operating Temperature | -10° C ~ 50° C (-40℃~+50℃ with Heater) |
| Storage Temperature | -20° C ~ 70° C |
| Operating Humidity | Under 90% Non-condensing |
| Measurement (mm) | 164(Ø) x121.5(H) |
| Weight ( Approx.) | 1,900 g |
| OSD | Video Mode / D&N / AWB / AE /Privacy Mask / Flickerless / |
| | Brightness / Sharpness / Mirror & Flip / DSS/DNR, etc. |

## Features

- Uncompressed high quality HD video with full frame rate
- Standard HD-SDI video interface
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/3 inch Progressive scan 1.3M SONY CMOS Sensor
- Up to 1280X720 60p resolution
- Quick and easy OSD control
- Perfect tool-free 3-Axis mechanism
- Composite video output for instant camera test
- DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD ( Using controllers, etc. )
- Privacy Masking
- Vandal-proof, Fire resistant, Tamper resistant
- Dust and Moisture free (IP66 Waterproof)
- Protection from extreme temperature range of -40℃~+50℃ - W/Additional heater
- DC12V



# VDA100SFHD-IR

## Full HD Vandal Dome Camera

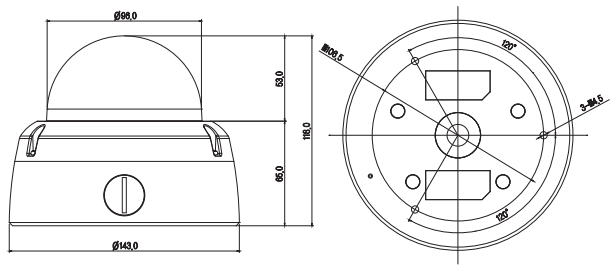



1080p | Motorized Zoom | ACCE | 3 Axis | IP 66

- Uncompressed high quality Full HD video with full frame rate
- Standard 1.485G/s video interface
- ICR mechanism enables Day & Night support.
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.9 inch Progressive scan 2M SONY CMOS Sensor
- Up to 1920X1080 30p resolution
- 2.8~12mm Motorized zoom lens
- Quick and easy OSD control
- 2D/3DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- 12VDC, 12VDC/24VAC
- Night Sensitivity up to 20M
- 12VDC

| MODEL | VDA100SFHD-IR I VDA100SFHD-LIR |
|---|---|
| Image sensor | Sony 1/2.9" progressive scan CMOS, 2Megapixel |
| Total Pixels | 2000(H) x 1241(V) 2.48 Megapixel |
| Effective Pixels | 1984(H) x 1105(V) 2.19 Megapixel |
| H. Resolution | More than 1000 TVL |
| Scanning system | Progressive Scan |
| AV Output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0 Lux |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1280 x 720 60p, 1920 x 1080 30p (Mode Select) |
| Video Output Format | 1.485G/s, HD-SDI Output (SMPTE 292M) |
| Digital Output | SDI Output |
| Day & Night | ICR |
| Serial Port | RS485 |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 220mA/12VDC(IR Off), 550mA/12VDC(IR On) |
| | 120mA/24VAC(IR Off), 250mA/24VAC(IR On) |
| Lens | 2.8~10mm Motorized zoom lens |
| Viewable Distance | 20M |
| MTBF of IR | 20,000 hours |
| Iris Control | DC IRIS Lens |
| Operating temp./Humidity | -10° C ~ 50° C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 143(Φ) x 118(H) |
| Weight (Approx.g) | 1200 |

| Function | |
|---|---|
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-Up | Off/x2 ~ x60 |
| Shutter speed | 1/30~50,000sec(NTSC), 1/25~50,000sec(PAL) |
| LANGUAGE | English, Japanese, Chinese |
| Privacy Mask | Off / On (8 Zone setting available & Mosaic) |
| Motion Detection | Off / On (3 Zone setting available & Mosaic) |
| White Balance | ATW/AWC→SET/INDOOR/OUTDOOR/MANUAL |
| BLC | Off / BLC / HLC |
| DEFOG | Off / On (User selectable by OSD) |



# VDA100SFHD

## HD Vandal Dome Camera



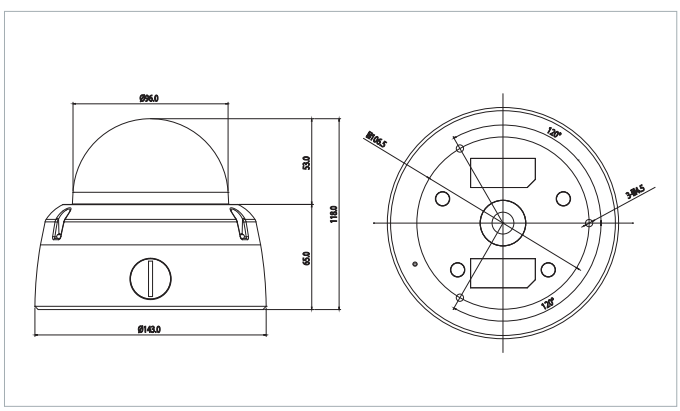

1080p | Motorized Zoom | ACCE | 3 Axis | IP 66

## Features

- Uncompressed high quality Full HD video with full frame rate
- Standard 1.485G/s video interface
- ICR mechanism enables Day & Night support.
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.9 inch Progressive scan 2M SONY CMOS Sensor
- Up to 1920X1080 30p resolution
- Quick and easy OSD control
- 2D/3DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- 12VDC, 12VDC/24VAC

| MODEL | VDA100SFHD I VDA100SFHD-L |
|---|---|
| Image sensor | Sony 1/2.9" progressive scan CMOS, 2Megapixel |
| Total Pixels | 2000(H) x 1241(V) 2.48 Megapixel |
| Effective Pixels | 1984(H) x 1105(V) 2.19 Megapixel |
| H. Resolution | More than 1000 TVL |
| Scanning system | Progressive Scan |
| AV Output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 1.0 Lux with Sens-Up X2 (F1.2, 30IRE, AGC On) |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1280 x 720 60p, 1920 x 1080 30p (Mode Select) |
| Video Output Format | 1.485G/s, HD-SDI Output (SMPTE 292M) |
| Digital Output | SDI Output |
| Day & Night | ICR |
| Serial Port | RS485 |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 220mA at 12VDC |
| | 120mA at 24VAC |
| Lens | 2.8~10mm Motorized 200m lens |
| Iris Control | DC IRIS Lens |
| Operating temp./Humidity | -10° C ~ 50° C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 143(Φ) x 118(H) |
| Weight (Approx.g) | 1,200 |

| Function | |
|---|---|
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-Up | Off/x2 ~ x60 |
| Shutter speed | 1/30~50,000sec(NTSC), 1/25~50,000sec(PAL) |
| LANGUAGE | English, Japanese, Chinese |
| Privacy Mask | Off / On (8 Zone setting available & Mosaic) |
| Motion Detection | Off / On (3 Zone setting available & Mosaic) |
| White Balance | ATW/AWC→SET/INDOOR/OUTDOOR/MANUAL |
| BLC | Off / BLC / HLC |
| DEFOG | Off / On (User selectable by OSD) |



# VD102SFHD-IR

## Full HD IR Indoor Dome Camera



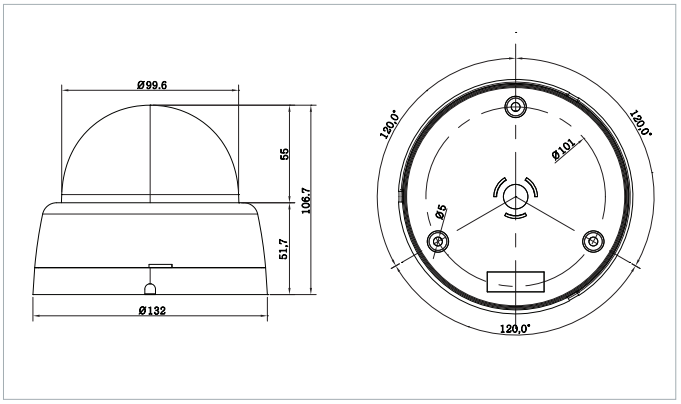

1080p ACCE 3 Axis

## Features

- Uncompressed high quality Full HD video with full frame rate
- Standard 1.485G/s video interface
- ICR mechanism enables Day & Night support.
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.9 inch Progressive scan 2M SONY CMOS Sensor
- Up to 1920X1080 30p resolution
- Quick and easy OSD control
- 2D/3DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- Night Sensitivity up to 20M
- 12VDC

| MODEL | VD102SFHD-IR |
|---|---|
| Image sensor | Sony 1/2.9" progressive scan CMOS, 2Megapixel |
| Total Pixels | 2000(H) x 1241(V) 2.48 Megapixel |
| Effective Pixels | 1984(H) x 1105(V) 2.19 Megapixel |
| H. Resolution | More than 1000 TVL |
| Scanning system | Progressive Scan |
| AV Output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1280 x 720 60p, 1920 x 1080 30p (Mode Select) |
| Video Output Format | 1.485G/s, HD-SDI Output (SMPTE 292M) |
| Digital Output | SDI Output |
| Day & Night | ICR |
| Serial Port | RS485 |
| Power source | 12VDC |
| Operating current | 220mA/12VDC(IR Off), 460mA/12VDC(IR On) |
| Lens | 2.8~10mm |
| Viewable Distance | 20M |
| MTBF of IR | 20,000 hours |
| Iris Control | DC IRIS Lens |
| Operating temp./Humidity | -10° C ~ 50° C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 132(Φ) x 106.7(H) |
| Weight (Approx.g) | 520 |

| Function | |
|---|---|
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-Up | Off/x2 ~ x60 |
| Shutter speed | 1/30~50,000sec(NTSC), 1/25~50,000sec(PAL) |
| LANGUAGE | English, Japanese, Chinese |
| Privacy Mask | Off / On (8 Zone setting available & Mosaic) |
| Motion Detection | Off / On (3 Zone setting available & Mosaic) |
| White Balance | ATW/AWC→SET/INDOOR/OUTDOOR/MANUAL |
| BLC | Off / BLC / HLC |
| DEFOG | Off / On (User selectable by OSD) |



# VD102SFHD

## Full HD Indoor Dome Camera



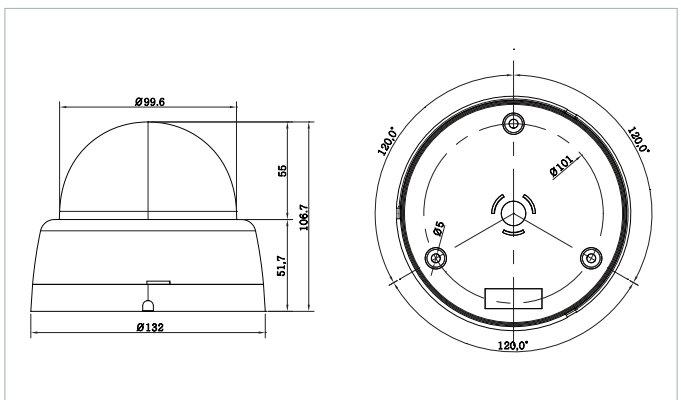

1080p ACCE 3 Axis

## Features

- Uncompressed high quality Full HD video with full frame rate
- Standard 1.485G/s video interface
- ICR mechanism enables Day & Night support.
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.9 inch Progressive scan 2M SONY CMOS Sensor
- Up to 1920X1080 30p resolution
- Quick and easy OSD control
- 2D/3DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- 12VDC

| MODEL | VD102SFHD |
|---|---|
| Image sensor | Sony 1/2.9" progressive scan CMOS, 2Megapixel |
| Total Pixels | 2000(H) x 1241(V) 2.48 Megapixel |
| Effective Pixels | 1984(H) x 1105(V) 2.19 Megapixel |
| H. Resolution | More than 1000 TVL |
| Scanning system | Progressive Scan |
| AV Output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.5 Lux with Sens-Up X2 (F1.2, 30IRE, AGC On) |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1280 x 720 60P, 1920 x 1080 30P (Mode Select) |
| Video Output Format | 1.485G/s, HD-SDI Output (SMPTE 292M) |
| Digital Output | SDI Output |
| Day & Night | ICR |
| Serial Port | RS485 |
| Power source | 12VDC |
| Operating current | 220mA |
| Lens | 2.8~10mm |
| Iris Control | DC IRIS Lens |
| Operating temp./Humidity | -10° C ~ 50° C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 132(Φ) x 106.7(H) |
| Weight (Approx.g) | 500 |

| Function | |
|---|---|
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-Up | Off/x2 ~ x60 |
| Shutter speed | 1/30~50,000sec(NTSC), 1/25~50,000sec(PAL) |
| LANGUAGE | English, Japanese, Chinese |
| Privacy Mask | Off / On (8 Zone setting available & Mosaic) |
| Motion Detection | Off / On (3 Zone setting available & Mosaic) |
| White Balance | ATW/AWC→SET/INDOOR/OUTDOOR/MANUAL |
| BLC | Off / BLC / HLC |
| DEFOG | Off / On (User selectable by OSD) |



# VD70SFHD

## Full HD Mini Armor Dome Camera



VD70SFHD-S29W



VD70SFHD-S29B
(Wall mount)

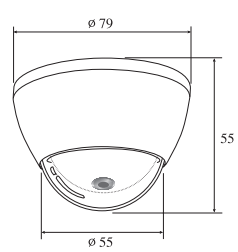
1080p ACCE IP 66

### Features

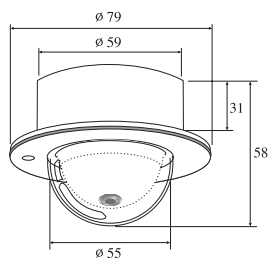
- Uncompressed high quality Full HD video with full frame rate
- Standard 1.485G/s video interface
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.9 inch Progressive scan 2M SONY CMOS Sensor
- Up to 1920X1080 30p resolution
- 2D/3DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- Vandalproof
- 12VDC

| MODEL | VD70SFHD |
|---|---|
| Image sensor | Sony 1/2.9" progressive scan CMOS, 2Megapixel |
| Total Pixels | 2000(H) x 1241(V) 2.48 Megapixel |
| Effective Pixels | 1984(H) x 1105(V) 2.19 Megapixel |
| H. Resolution | More than 1000 TVL |
| Scanning system | Progressive Scan |
| AV Output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 1.0 Lux with Sens-Up X2 (F1.2, 30IRE, AGC On) |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1280 x 720 60p, 1920 x 1080 30p (Mode Select) |
| Video Output Format | 1.485G/s, HD-SDI Output (SMPTE 292M) |
| Digital Output | SDI Output |
| Day & Night | ICR |
| Serial Port | RS485 |
| Power source | 12VDC |
| Operating current | 220mA |
| Lens | 3.7mm |
| Operating temp./Humidity | -10° C ~ 50° C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | Refer to Dimension |
| Weight (Approx.g) | 390 |

| Function | |
|---|---|
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-Up | Off/x2 ~ x60 |
| Shutter speed | 1/30~50,000sec(NTSC), 1/25~50,000sec(PAL) |
| LANGUAGE | English, Japanese, Chinese |
| Privacy Mask | Off / On (8 Zone setting available & Mosaic) |
| Motion Detection | Off / On (3 Zone setting available & Mosaic) |
| White Balance | ATW/AWC→SET/INDOOR/OUTDOOR/MANUAL |
| BLC | Off / BLC / HLC |
| DEFOG | Off / On (User selectable by OSD) |




Surface Mount




Flush Mount

# VC58FHD

## Full HD True Day/Night Box Camera

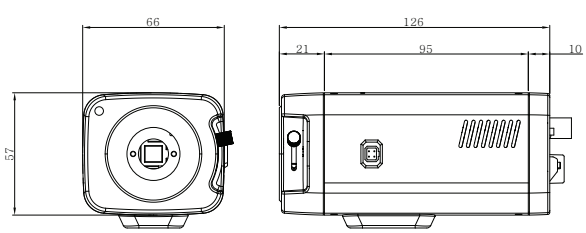



1080p ATR

## Features

- Uncompressed high quality Full HD video with full frame rate
- Standard 3G-SDI video interface
- CDS sensor driven ICR mechanism enables Day & Night support.
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.8 inch Progressive scan 3M SONY CMOS Sensor
- Up to 1920X1080 60p resolution
- Quick and easy OSD control
- Diverse video outputs for diverse applications. ( HD-SDI & Composite )
- 2D/3DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- DC12V

| MODEL | VC58FHD |
|---|---|
| Sensor Device | Sony 1/2.8" progressive scan CMOS, 3Megapixel |
| Total Pixels | 2144(H) x 1588(V) 3.4 Megapixel |
| Effective Pixels | 2096(H) x 1561(V) 3.27 Megapixel |
| Scanning System | Progressive Scan |
| Horizontal | More than 1100 TVL |
| S/N Ratio | More than 52dB |
| Min. Illumination | 1.0 Lux with DSSX2 (F1.2, 30IRE, AGC On), |
| Shutter Speed | 1/60s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1920 x 1080P 60/50/30/25/59.94/29.97, 1920x 1080i 60/50/59.94/ |
| | 1280x 720P 60/50/30/25//59.94/29.97 (Mode Select) |
| Video Output Format | 2.97G/s, 3G-SDI Output (SMPTE 424M) |
| AV Output | 1V p-p Composite, 75 Ohms |
| Digital Output | SDI Output |
| Day & Night | D/N Output Port, ICR |
| Serial Port | RS485 |
| Lens | C/CS Mount Lens |
| Lens Control | DC IRIS Lens |
| Power Source | DC 12V(9~19V) |
| Power Consumption | 420mA / DC12V ( 5W) |
| Operating Temperature | -10° C ~ 50° C |
| Storage Temperature | -20° C ~ 70° C |
| Operating Humidity | Under 90% Non-condensing |
| Measurement (mm) | 66(W) x 57(V) x 126.5(L) |
| Weight ( Approx.) | 800 g |
| OSD | Video Mode / D&N / AWB / AE /Privacy Mask / Flickerless / |
| | Brightness / Sharpness / Mirror & Flip / DSS/DNR, etc. |



# VC58SFHD

## Full HD True Day/Night Box Camera



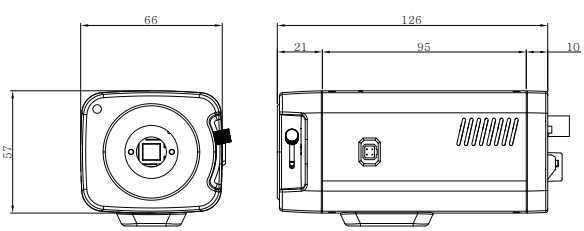

1080p ACCE

## Features

- Uncompressed high quality Full HD video with full frame rate
- Standard 1.485G/s video interface
- ICR mechanism enables Day & Night support.
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- Sony 1/2.9 inch Progressive scan 2M SONY CMOS Sensor
- Up to 1920X1080 30p resolution
- Quick and easy OSD control
- Diverse video outputs for diverse applications. ( HD-SDI & Composite )
- 2D/3DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- 12VDC

| MODEL | VC58SFHD |
|---|---|
| Image sensor | Sony 1/2.9" progressive scan CMOS, 2Megapixel |
| Total Pixels | 2000(H) x 1241(V) 2.48 Megapixel |
| Effective Pixels | 1984(H) x 1105(V) 2.19 Megapixel |
| H. Resolution | More than 1000 TVL |
| Scanning system | Progressive Scan |
| AV Output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 1.0 Lux with Sens-Up X2 (F1.2, 30IRE, AGC On) |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1280 x 720 60P, 1920 x 1080 30P (Mode Select) |
| Video Output Format | 1.485G/s, HD-SDI Output (SMPTE 292M) |
| Digital Output | SDI Output |
| Day & Night | D/N Output Port, ICR |
| Serial Port | RS485 |
| Power source | 12VDC |
| Operating current | 250mA |
| Lens | C/CS Mount Lens |
| Operating temp./Humidity | -10° C ~ 50° C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 66(W) x 57(V) x 126.5(L) |
| Weight (Approx.g) | 800 |

| Function | |
|---|---|
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-Up | Off/x2 ~ x60 |
| Shutter speed | 1/30~50,000sec(NTSC), 1/25~50,000sec(PAL) |
| LANGUAGE | English, Japanese, Chinese |
| Privacy Mask | Off / On (8 Zone setting available & Mosaic) |
| Motion Detection | Off / On (3 Zone setting available & Mosaic) |
| White Balance | ATW/AWC→SET/INDOOR/OUTDOOR/MANUAL |
| BLC | Off / BLC / HLC |
| DEFOG | Off / On (User selectable by OSD) |



# VC58HD

## HD True Day/Night Box Camera

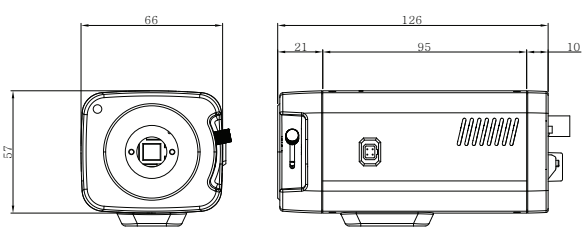



720p

## Features

- Uncompressed high quality HD video with full frame rate
- Standard HD-SDI video interface
- CDS sensor driven ICR mechanism enables Day & Night support.
- HD video transmission up to 100M
- No additional installation cost. (Compatible with existing coaxial cables)
- 1/3 inch Progressive scan 1.3M SONY CMOS Sensor
- Up to 1280X720 60p resolution
- Quick and easy OSD control
- Diverse video outputs for diverse applications. ( Composite, S-VIDEO, YPbPr )
- DNR (Digital Noise Reduction)
- RS-485 Interface for external control of OSD
- Privacy Masking
- 12VDC

| MODEL | VC58HD |
|---|---|
| Sensor Device | Sony 1/3" progressive scan CMOS, 1.3Megapixel |
| Total Pixels | 1384(H) x 1076(V) 1.49 Megapixel |
| Effective Pixels | 1329(H) x 1049(V) 1.39 Megapixel |
| Scanning System | Progressive Scan |
| Horizontal | More than 800 TVL |
| S/N Ratio | More than 50dB |
| Min. Illumination | 0.5 Lux with DSSX2 (F1.2, 30IRE, AGC On), |
| Shutter Speed | 1/30s Default,(Long Exposure Mode, ~1Sec) |
| Video Output | 1280x720p 59.94/50(Mode Select) |
| Video Output Format | 1.485G/s, HD-SDI Out (SMPTE 292M) |
| AV Output | 1V p-p Composite, 75 Ohms |
| Digital Output | SDI Output |
| Day & Night | D/N Output Port, ICR |
| Serial Port | RS485 |
| Lens | C/CS Mount Lens |
| Lens Control | DC IRIS Lens |
| Power Source | DC 12V(9~19V) |
| Power Consumption | 420mA / DC12V ( 5W) |
| Operating Temperature | -10° C ~ 50° C |
| Storage Temperature | -20° C ~ 70° C |
| Operating Humidity | Under 90% Non-condensing |
| Measurement (mm) | 66(W) x 57(V) x 126.5(L) |
| Weight ( Approx.) | 800 g |
| OSD | Video Mode / D&N / AWB / AE /Privacy Mask / Flickerless / |
| | Brightness / Sharpness / Mirror & Flip / DSS/DNR, etc. |



# VHD400

## 4CH HD DVR



VHD400

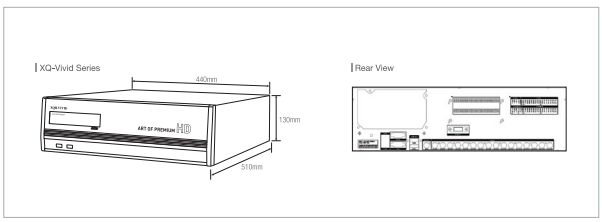



VHD400P

1080p 720p

## Features

- 4CH Full HD-SDI Video Input
- H.264 Compression format
- 720p/1080p HD resolution recording
- Up to real time recoding rate and playback rate for all cameras
- Multiple Main Monitors: HDMI/VGA Video output
- Pentaplex operation(Live,Recoding,Playback,Remote viewing)
- Support Smart Phone(iPhone, Android, iPad)
- Express Search : designated time Search, event Search, Panorama search
- Remote configuration support from built-in web interface
- Audio recoding capabilities
- 4 internal HDDs




| MODEL | | | VHD400 | VHD400P |
|---|---|---|---|---|
| General | Performance | | Pentaplex | |
| | Display speed | | Real time | |
| | Record speed | 1080p | 30 fps | 120fps |
| | | 720p | 60 fps | 240fps |
| | Video In | Channel | 4CH (BNC) | |
| | | Transmission | HD-SDI (SMPTE 292M) | |
| | Video out | Main display | 1920x1080(P), 1920x1080(I), 1280x720(P), 1440x900 | |
| | | Sub-display | 1 VGA | |
| | | SPOT | - | 1 HDMI (Multi Channel Display), 1 HD-SDI (SMPTE 292M) / single channel fix or rotate |
| | Audio Input / Output | | 4CH / 1CH | |
| | Sensor / Alarm Input / Output | | 4CH / 1CH | |
| Details | Screen | Display split | 1, 4 | |
| | | Interface | Graphic User Interface | |
| | Video | Codec | H.264 | |
| | | quality | Highest / High / Normal / Low | |
| | | Recording | Schedule / Continuous / Event (Motion, Alarm) | |
| | Storage | | Max. 12TB | Max. 24TB |
| | | | (3TB x 4 HDDs) or above | (3TB x 8 HDDs) or above |
| | Connectors | | 2 USB Port / PTZ camera, PTZ controller interface | |
| Function | Camera option | | Color adjustment / Position change / Freeze / 4X digital zoom (live / playback) | |
| | Motion | Area | Adjustable GRID (22 x 15) | |
| | | Sensitivity | 5 level motion detection | |
| | System | Hidden camera | Hidden camera during recording | |
| | | PTZ | Various PTZ camera protocol / Preset up to 255 /RS 485 | |
| | | Private zone | Blocking the private zone (live / playback) | |
| | | AutoTime Sync | NTP (Network Time Protocol) | |
| | | Firmware update | USB / Network | |
| | | S.M.A.R.T. | Auto detect when HDD's problem | |
| | Event | Source | Motion / Sensor / Video loss | |
| | | Action | Recording, E-Mail, Log, Send message to remote, Buzzer, Pop up, Alarm, PTZ preset | |
| | | Pre/Post recording | Up to 60sec / 100sec | |
| | Record | Resolution | 1080p or 720p | |
| | | Quality | 4 levels (Highest / High / Normal / Low) | |
| | Search & Playback | Speed | 5 levels | |
| | | Quick / Event search | Search by designated time / Search by event | |
| | | Repeat playback | Playback repeating designated time section only | |
| | | Panorama search | Searching frame by frame (by every 16/9/4 frames at once) | |
| | | Event chain playback | Search only event and playback without interval | |
| | | Dual mode function | Live monitoring during palyback | |
| | Backup | File format | DVR format | |
| | | Media | DVD / USB device / Network | |
| | Network | Type | Static IP, DHCP, DDNS | |
| | | Base-T | 10/100/1000 Mbps | |
| | | Browser | CMS, Web viewer, Smart phone support (iPhone, Android, iPad) | |
| Environment | Operating Temperature / Humidity | | 0~45° C, 32~113°F / 5~85% | |
| | Dimension / Weight (without HDD) | | 440(W) X 430(D) X 90(H)mm / 7 kg, 17.3(W) x 16.9(D) x 3.5(H)in / 15.4 lb | |
| | Power requirement | | AC 100V ~ 220V (50Hz-60Hz) | |

# VHD800

## 8CH HD DVR

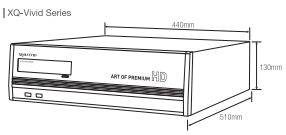



1080p 720p

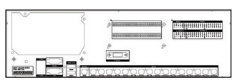
## Features

- 8CH Full HD-SDI Video Input
- H.264 Compression format
- 720p/1080p HD resolution recording
- Up to real time recoding rate and playback rate for all cameras
- Multiple Main Monitors: HDMI/VGA Video output
- Pentaplex operation(Live,Recoding,Playback,Remote viewing)
- Support Smart Phone(iPhone, Android, iPad)
- Express Search : designated time Search, event Search, Panorama search
- Remote configuration support from built-in web interface
- Audio recoding capabilities
- 4 internal HDDs

| XQ-Vivid Series




| Rear View



| MODEL | | | VHD800 |
|---|---|---|---|
| Classification | | | Specification |
| General | Performance | | Pentaplex |
| | Display speed | | Real time |
| | Record speed | 1080p | 120 fps |
| | | 720p | 240 fps |
| | Video In | Channel | 8CH (BNC) |
| | | Transmission | HD-SDI (SMPTE 292M) |
| | Video out | Main display | HDMI by 1920x1080(P), 1920x1080(I), 1280x720(P), 1440x900 |
| | | Sub-display | 1 VGA |
| | | SPOT | 1 HDMI (Multi Channel Display), 1 HD-SDI (SMPTE 292M) / single channel fix or rotate |
| | Audio Input / Output | | 8CH / 1CH |
| | Sensor / Alarm Input / Output | | 8CH / 2CH |
| Details | Screen | Display split | 1, 4,7,9 |
| | | Interface | Graphic User Interface |
| | Video | Codec | H.264 |
| | | quality | Highest / High / Normal / Low |
| | | Recording | Schedule / Continuous / Event (Motion, Alarm) |
| | Storage | | Max. 24TB (3TB x 8 HDDs) or above |
| | Connectors | | 2 USB Port / PTZ camera, PTZ controller interface |
| Function | Camera option | | Color adjustment / Position change / Freeze / 4X digital zoom (live / playback) |
| | Motion | Area | Adjustable GRID (22 x 15) |
| | | Sensitivity | 5 level motion detection |
| | System | Hidden camera | Hidden camera during recording |
| | | PTZ | Various PTZ camera protocol / Preset up to 255 /RS 485 |
| | | Private zone | Blocking the private zone (live / playback) |
| | | AutoTime Sync | NTP (Network Time Protocol) |
| | | Firmware update | USB / Network |
| | | S.M.A.R.T. | Auto detect when HDD's problem |
| | Event | Source | Motion / Sensor / Video loss |
| | | Action | Recording, E-Mail, Log, Send message to remote, Buzzer, Pop up, Alarm, PTZ preset |
| | | Pre/Post recording | Up to 60sec / 100sec |
| | Record | Resolution | 1080p or 720p |
| | | Quality | 4 levels (Highest / High / Normal / Low) |
| | Search & Playback | Speed | 5 levels |
| | | Quick / Event search | Search by designated time / Search by event |
| | | Repeat playback | Playback repeating designated time section only |
| | | Panorama search | Searching frame by frame (by every 16/9/4 frames at once) |
| | | Event chain playback | Search only event and playback without interval |
| | | Dual mode function | Live monitoring during palyback |
| | Backup | File format | DVR format |
| | | Media | DVD / USB device / Network |
| | Network | Type | Static IP, DHCP, DDNS |
| | | Base-T | 10/100/1000 Mbps |
| | | Browser | CMS, Web viewer, Smart phone support (iPhone, Android, iPad) |
| Environment | Operating Temperature / Humidity | | 0~45° C, 32~113°F / 5~85% |
| | Dimension / Weight (without HDD) | | 440(W) X 430(D) X 90(H)mm / 7 kg, 17.3(W) x 16.9(D) x 3.5(H)in / 15.4 lb |
| | Power requirement | | AC 100V ~ 220V (50Hz-60Hz) |

# VHD1600

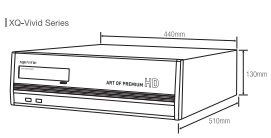
## 16CH HD DVR

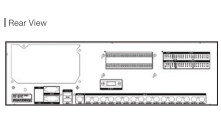



1080p 720p

## Features

- 16CH Full HD-SDI Video Input
- H.264 Compression format
- 720p/1080p HD resolution recording
- Up to real time recoding rate and playback rate for all cameras
- Multiple Main Monitors: HDMI/VGA Video output
- Pentaplex operation(Live,Recoding,Playback,Remote viewing)
- Support Smart Phone(iPhone, Android, iPad)
- Express Search : designated time Search, event Search, Panorama search
- Remote configuration support from built-in web interface
- Audio recoding capabilities
- 4 internal HDDs




| MODEL | | | VHD1600 |
|---|---|---|---|
| Classification | | | Specification |
| General | Performance | | Pentaplex |
| | Display speed | | Real time |
| | Record speed | 1080p | 120 fps |
| | | 720p | 240 fps |
| | Video In | Channel | 16CH (BNC) |
| | | Transmission | HD-SDI (SMPTE 292M) |
| | Video out | Main display | HDMI by 1920x1080(P), 1920x1080(I), 1280x720(P), 1440x900 |
| | | Sub-display | 1 VGA |
| | | SPOT | 1 HDMI (Multi Channel Display), 1 HD-SDI (SMPTE 292M) / single channel fix or rotate |
| | Audio Input / Output | | 16CH / 1CH |
| | Sensor / Alarm Input / Output | | 16CH / 2CH |
| DETAILS | Screen | Display split | 1, 4,7,9 |
| | | Interface | Graphic User Interface |
| | Video | Codec | H.264 |
| | | quality | Highest / High / Normal / Low |
| | | Recording | Schedule / Continuous / Event (Motion, Alarm) |
| | Storage | | Max. 24TB (3TB x 8 HDDs) or above |
| | Connectors | | 2 USB Port / PTZ camera, PTZ controller interface |
| Function | Camera option | | Color adjustment / Position change / Freeze / 4X digital zoom (live / playback) |
| | Motion | Area | Adjustable GRID (22 x 15) |
| | | Sensitivity | 5 level motion detection |
| | System | Hidden camera | Hidden camera during recording |
| | | PTZ | Various PTZ camera protocol / Preset up to 255 /RS 485 |
| | | Private zone | Blocking the private zone (live / playback) |
| | | AutoTime Sync | NTP (Network Time Protocol) |
| | | Firmware update | USB / Network |
| | | S.M.A.R.T. | Auto detect when HDD's problem |
| | Event | Source | Motion / Sensor / Video loss |
| | | Action | Recording, E-Mail, Log, Send message to remote, Buzzer, Pop up, Alarm, PTZ preset |
| | | Pre/Post recording | Up to 60sec / 100sec |
| | Record | Resolution | 1080p or 720p |
| | | Quality | 4 levels (Highest / High / Normal / Low) |
| | Search & Playback | Speed | 5 levels |
| | | Quick / Event search | Search by designated time / Search by event |
| | | Repeat playback | Playback repeating designated time section only |
| | | Panorama search | Searching frame by frame (by every 16/9/4 frames at once) |
| | | Event chain playback | Search only event and playback without interval |
| | | Dual mode function | Live monitoring during palyback |
| | Backup | File format | DVR format |
| | | Media | DVD / USB device / Network |
| | Network | Type | Static IP, DHCP, DDNS |
| | | Base-T | 10/100/1000 Mbps |
| | | Browser | CMS, Web viewer, Smart phone support (iPhone, Android, iPad) |
| Environment | Operating Temperature / Humidity | | 0~45° C, 32~113°F / 5~85% |
| | Dimension / Weight (without HDD) | | 440(W) X 430(D) X 90(H)mm / 7 kg, 17.3(W) x 16.9(D) x 3.5(H)in / 15.4 lb |
| | Power requirement | | AC 100V ~ 220V (50Hz-60Hz) |

# VRP102

## HD-SDI Repeater

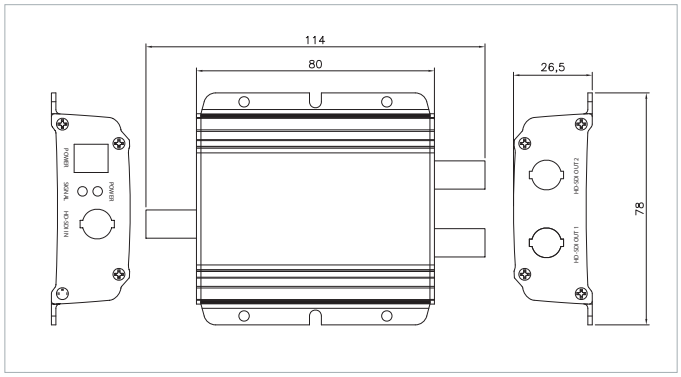


1080p 720p

### Features

- HD-SDI Video Inputs(1080p or 720p)
- 2HD-SDI Video Output(1080p or 720p)
- Requirement for Coaxial Cable : L-5CFB Type Impedance : 75 Ohm
- Extended Distance : Approximately 100M
- HD-SDI Video Loss LED display

| MODEL | VRP102 |
|---|---|
| Video Input | 1CH HD-SDI(720p,1080p) |
| Video Outputl | 2CH HD-SDI(720p,1080p) |
| Max distance | 100M/L-5CFB |
| Power Source | DC 12V/1.5A |
| Weight (Approx.g) | 300 |
| Measurement (mm) | 42(W) x 26(V) x 75(L) |




# VRP102HDMI

## HD SDI / HDMI Converter

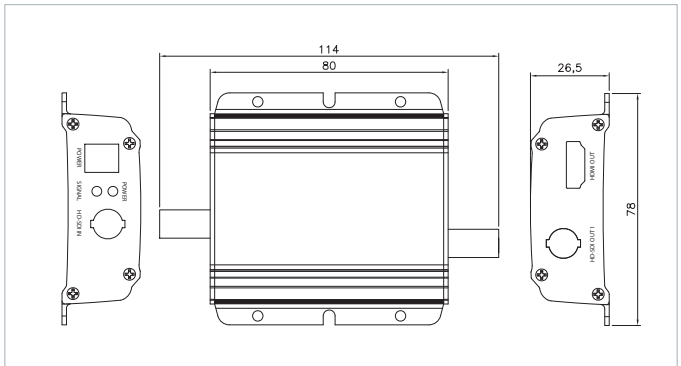


1080p 720p

### Features

- HD-SDI Video Inputs(1080p,1080i or 720p)
- 1CH HD-SDI Video Output(1080p,1080i or 720p) & 1CH HDMI Video Output
- Requirement for Coaxial Cable : L-5CFB Type Impedance : 75 Ohm
- Extended Distance : Approximately 100M
- HD-SDI Video Loss LED display

| MODEL | VRP102HDMI |
|---|---|
| Video Input | 1CH HD-SDI(720p,1080p,1080i) |
| Resolution | 1080P(60,59.94,50,30,29.97,25) , 1080i(60,59.94,50), 720P(60,59.94,50,30,29.97,25) |
| Video Outputl | 1CH HD-SDI(720p,1080p,1080i) and 1CH HDMI |
| Max distance(HD SDI) | 100M/L-5CFB |
| Power Source | DC 12V/1.5A |
| Weight (Approx.g) | 300 |
| Measurement (mm) | 42(W) x 26(V) x 75(L) |



*Security Innovation*

# ANALOG CAMERA




VISION
www.visionipvideo.com
www.visionhitech.co.kr

# VPD330WD-I/ VPD330WD-O

## 33x WDR Speed Dome Camera





Auto Focus | WDR | 2D + 3D | True Day/Night ICR

1/4 inch Sony Color vertical Double Density CCD, 360 degree endless Pan, –3~180 degree Tilt, True Day and Night

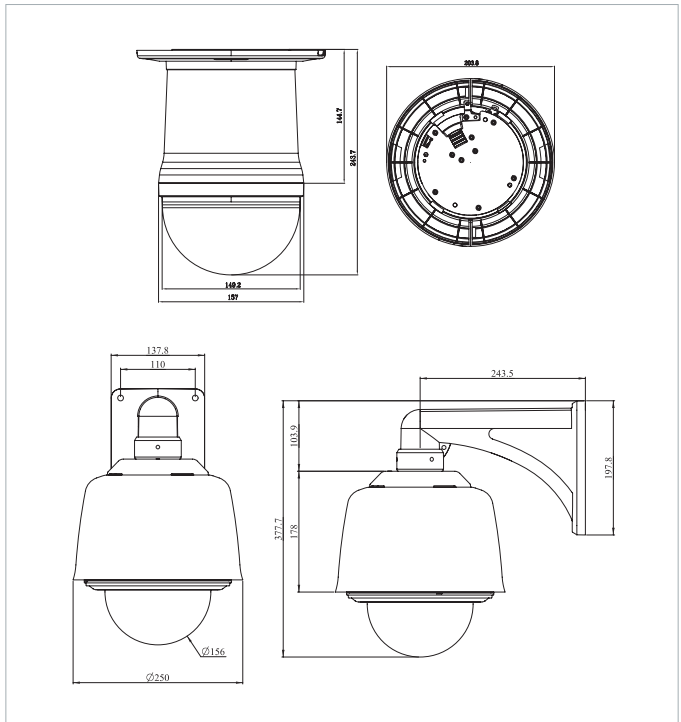
VISION high speed dome cameras are designed for use in mission critical surveillance applications – such as airports, stadiums, casinos and ports – where the ability to follow moving objects from a long distance and to see great detail is very important. With its fast and precise pan tilt mechanism as well as fascinating design, VISION high speed dome camera can cover long and wide range with powerful 33X zooming capability.

## Features

- Fast and precise pan, tilt, zoom operation (Pan 400 degree/sec, Tilt 400 degree/sec)
- Extremely high sensitivity of 0.7 Lux in color mode.
- 360 degree endless panning
- Wide tilt range of –3~180 degree
- Max. 33X optical zoom and digital 12X zoom
- 2D and 3D DNR(Digital Noise Reduction)
- 128 presets and touring function
- 8 privacy zones
- 128X WDR
- True Day/Night(ICR)
- Digital Flip Over
- VPD330WD–I : Sensor 4x Inputs/2 Outputs
- VPD330WD–O : Sensor 2x Inputs/1 Output
- RS–485 Interface(Pelco–D, P)
- VPD330WD–O :IP66 Waterproof
- VPD330WD–O :Built–in FAN, HEATER(–40°F~122°F(–40℃~+50℃))

| MODEL | | VPD330WD–I | VPD330WD–O |
|---|---|---|---|
| Image sensor | | 1/4" Sony Color vertical Double Density CCD | |
| Day & Night | | Auto/Color/BW | |
| Environment | | INDOOR | OUTDOOR |
| Optical Zoom | | 33X | |
| Digital Zoom | | 12X | |
| Lens | | 33x AF zoom ( f3.5~115.5mm (F1.6)) | |
| Min. illumination / Light sensitivity (Lux) | | 0.7Lux at F1.6 (Color), 0.002Lux(Sens–up, 256x) 0.06Lux at F1.6 (B/W) | |
| Pan Tilt Operation | Pan | 360 Endless (400 deg/sec) | |
| | Tilt | –3~180 deg (400 deg/sec) | |
| WDR/BLC | | On/Off (User selectable on OSD) | |
| Noise Reduction | | 2D+3DNR | |
| Effective Pixels | | PAL:752(H)x582(V), NTSC:768(H)x494(V) | |
| H.Resolution | | 550TV Line(Color) / 680 TV Line(B/W) | |
| Angle of view | | 33X H:56.3° (W) to 1.77° (T),V:43.2(W) to 1.33(T) | |
| Protocol | | RS–485 (PELCO–D,P) | |
| ALARM IN/OUT | | 4 ALARM INPUT/2 ALARM OUT | 2 ALARM INPUT/ 1 ALARM OUT |
| Operating Temperature | | 14°F ~122°F (–10℃ ~ +50℃) | 40°F ~122°F (–40℃ ~ +50℃) |
| Power source | | 24VAC | |
| Power Consumption | | Normal : 12W | Max : 36W(Heater ON) |
| Measurement (mm) | | 156(Ø) x 236.6(H) | 250(Ø) x 377(H) |
| Weight (Approx.g) | | 3,500 | 4,500 |

## Dimension



# VPD370WD-I/ VPD370WD-O

## 37x WDR Speed Dome Camera







Auto Focus | WDR | 2D + 3D | True Day/Night ICR

1/4 inch Sony Color vertical Double Density CCD, 360 degree endless Pan, –3~180 degree Tilt, True Day and Night

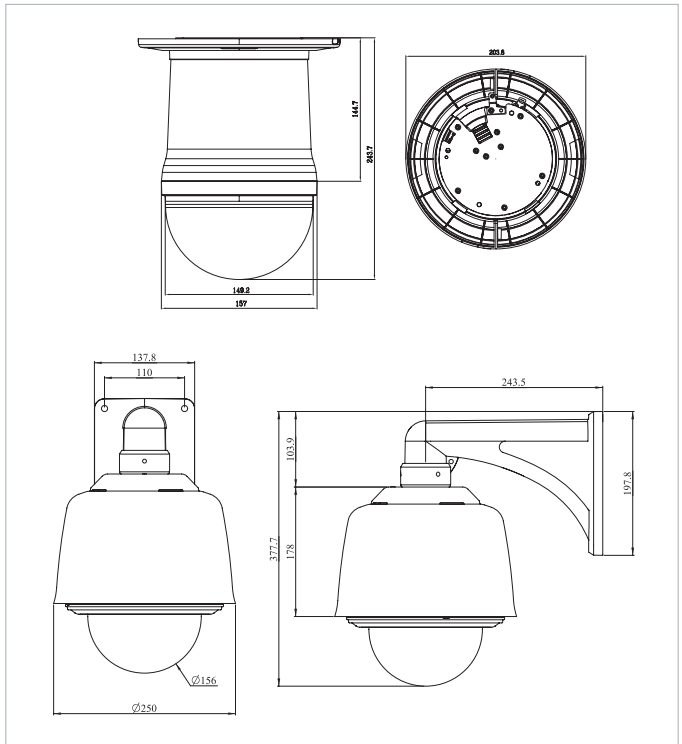
VISION high speed dome cameras are designed for use in mission critical surveillance applications – such as airports, stadiums, casinos and ports – where the ability to follow moving objects from a long distance and to see great detail is very important. With its fast and precise pan tilt mechanism as well as fascinating design, VISION high speed dome camera can cover long and wide range with powerful 37X zooming capability.

## Features

- Fast and precise pan, tilt, zoom operation (Pan 400 degree/sec, Tilt 400 degree/sec)
- Extremely high sensitivity of 0.7 Lux in color mode.
- 360 degree endless panning
- Wide tilt range of –3~180 degree
- Max. 37X optical zoom and digital 12X zoom
- 2D and 3D DNR(Digital Noise Reduction)
- 128 presets and touring function
- 8 privacy zones
- 128X WDR
- True Day/Night(ICR)
- Digital Flip Over
- VPD370WD-I : Sensor 4x Inputs/2 Outputs
- VPD370WD-O : Sensor 2x Inputs/1 Output
- RS-485 Interface(Pelco-D,P)
- VPD370WD-O : IP66 Waterproof
- VPD370WD-O : Built-in FAN,HEATER(-40° F~122° F(-40℃~+50℃))

| MODEL | | VPD370WD-I | VPD370WD-O |
|---|---|---|---|
| Image sensor | | 1/4" Sony Color vertical Double Density CCD | |
| Day & Night | | Auto/Color/BW | |
| Environment | | OUTDOOR | |
| Optical Zoom | | 37X | |
| Digital Zoom | | 12X | |
| Lens | | 37x AF zoom ( 3.5~129.5mm(F1.6)) | |
| Min. illumination / Light sensitivity (Lux) | | 0.7Lux at F1.6 (Color), 0.002Lux(Sens-up, 256x) 0.06Lux at F1.6 (B/W) | |
| Pan Tilt Operation | Pan | 360 Endless (400 deg/sec) | |
| | Tilt | –3~180 deg (400 deg/sec) | |
| WDR/BLC | | On/Off (User selectable on OSD) | |
| Noise Reduction | | 2D+3DNR | |
| Effective Pixels | | PAL:752(H)x582(V) ,NTSC:768(H)x494(V) | |
| H.Resolution | | 550TV Line(Color) / 680 TV Line(B/W) | |
| Angle of view | | 37x H:55.5° (W) to 1.59° (T),V:42.5(W) to 1.19(T) | |
| ALARM IN/OUT | | 4 ALARM INPUT/ 2 ALARM OUT | 2 ALARM INPUT/ 1 ALARM OUT |
| Protocol | | RS-485 (PELCO-D,P) | |
| Operating Temperature | | 14°F ~122°F (–10℃ ~ +50℃) | 40°F ~122°F (–40℃ ~ +50℃) |
| Power source | | 24VAC | |
| Power Consumption | | Normal : 12W | Max : 36W(Heater ON) |
| Measurement (mm) | | 250(Ø) x 236.6(H) | 250(Ø) x 377(H) |
| Weight (Approx.g) | | 3,500 | 4,500 |

## Dimension




Analog

# VA372WD-VL60/VA332WD-VL60

## 37x, 33x 120m View WDR Super Night Vision Camera



Auto Focus | WDR | True Day/Night ICR | IP 66

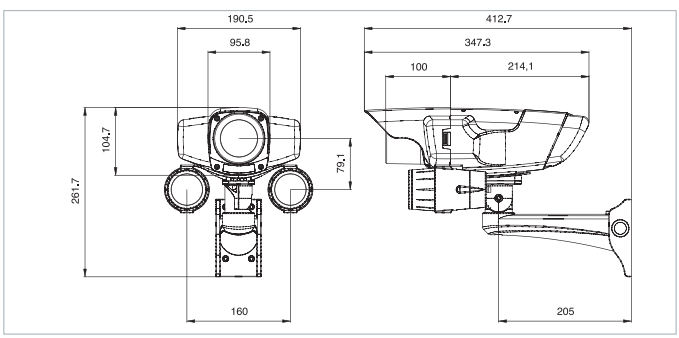
## Special Features

- All-in-One solution with IR Illuminator, Outdoor housing, Sunshield & Bracket
- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- Powerful night vision up to 120M
- LED Lamp Interchangeable with ease
- Motion Detection Lamp blinking
- Plug & Play Heater option ranged of -40° F~122° F(-40° C ~ 50° C)
- Specially designed power circuit guarantees the installation with existing UTP or telephone cable up to 100M long without compromising Day & Night performance
- Cable concealed thru bracket

## General Features

- 1/4"Sony Double Scan CCD
- Super Wide Dynamic(sWDR)
- Optical 37x, Digital 12x / Optical 33x, Digital 12x
- High resolution of 550TVL(Day)/680TVL(Night)
- IR Sensitive Mechanical Day/Night Filter System Built-in
- Motion Detection
- 3DNR(Noise Reduction)
- Privacy masking up to 8 zones
- Sens-up(2x ~ 256x)
- DIS(Digital Image Stabilizer)
- RS-485 Interface(Pelco-D)

## Dimension




| MODEL | VA372WD-VL60 | VA332WD-VL60 |
|---|---|---|
| Image sensor | 1/4" Sony Color Vertical Double Density CCD | |
| Effective Pixels | NTSC : 768(H) x 494(V) PAL : 752(H) x 582(V) | |
| H. Resolution | 550 TV Lines(Color) / 680 TV Lines(BW) | |
| Synchronizing system | Internal | |
| Video output | 1.0Vp-p Composite 75 Ohms | |
| S/N ratio | More than 50dB (AGC Off) | |
| Min. Illumination | 0Lux | |
| Gamma Correction | Standard γ = 0.45 | |
| White Balance | 1,800° K ~ 10,500° K Auto ATW/AWC/Manual/ INDOOR/OUTDOOR selectable by OSD | |
| Smear Effect | 0.005% | |
| **OSD Menu** | | |
| OSD Menu | RS485 (Controllable by DVR or controller) | |
| WDR/BLC | WDR / BLC / HLC / OFF | |
| Digital Zoom | Off / On (Limit 12x) | |
| Day & Night | AUTO / COLOR / BW / EXT | |
| Electronic Shutter Speed | AUTO / MANUAL / A.FLK | |
| White Balance | ATW/AWC/MANUAL/INDOOR/OUTDOOR | |
| Gain Control | LOW / MEDIUM / HIGH / MANUAL / OFF | |
| Motion Detection | On/Off | |
| Sens-up | Auto (2x ~ 256x) / Off | |
| SSNR | LOW / MEDIUM / HIGH / OFF | |
| Privacy Fucntion | On/Off (8 Zones) | |
| FLIP | On/Off | |
| Mirror | On/Off | |
| Focus Control | AUTO / MANUAL / ONE-PUSH | |
| IRIS Control | AUTO / MANUAL | |
| DIS | On/Off | |
| Zoom Movement Speed | 37X 2.5 Sec(Fast) / 3.1 Sec(Medium) / 5.6 Sec(Slow)<br>33X 2.2 Sec(Fast) / 2.5 Sec(Medium) / 4.7 Sec(Slow) | |
| Camera Title | On/Off (20 Characters) | |
| **POWER** | | |
| Power Source | 24VDC | |
| Operating Current | 120mA (IR "Off" at Day), 900mA (IR "On" at Night) | |
| **LENS** | | |
| Lens | Auto Focus Digital Zooms | |
| Zoom Ratio | 37x, f=3.5 to 129.5mm(F1.6 to F3.9) /<br>33x, f=3.5 to 115.5mm(F1.6 to F3.6) | |
| Min. Focus distance | 37X:1.5mm, 33X:1M | |
| Angle of view Lens | Horizontal : 37X Approx. 55.5° (Wide) to 1.59° (Tele)<br>33X Approx. 55.5° (Wide) to 1.77° (Tele)<br>Vertical : 37X Approx. 42.5° (Wide) to 1.19° (Tele)<br>33X Approx. 42.5° (Wide) to 1.33° (Tele) | |
| Digital Zoom | Off / On (Limit 12x) | |
| **Operating** | | |
| Operating Temperature | 14° F ~ 122° F (-10℃ ~ +50℃) | |
| Humidity | Within 90% RH | |
| Weatherproof rating | IP66 | |
| Measurement (mm) | 220(W) x 261.7(V) x 412.7(L) | |
| Weight (Approx.g) | 5,000 | |
| Connection | Cable concealed through Bracket | |
| **IR Function** | | |
| IR Spectrum | High Power 850nm | |
| Viewable distance | Up to 120M at moonless night | |
| MTBF of IR | 20,000 Hours | |

# VA102E-VL60

## 120m View WDR Super Night Vision Camera



650 TVL | WDR | 2D + 3D | True Day/Night ICR | IP 66

## Special Features

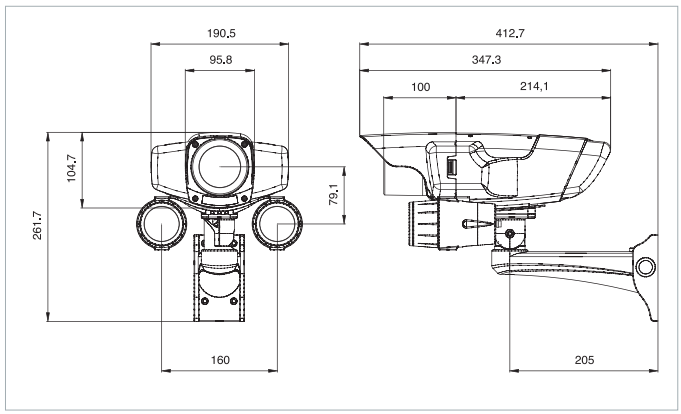
- 1/3" Sony 960H Double Scan CCD
- Super High resolution of 650TVL(Day)/700TVL(Night)
- Powerful night vision up to 120M view
- Intelligent IR Image Compensation
- Face Detection up to 4 people
- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Patented SFOCAS(Self FOcus Compensation Against Shift) technology
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- LED Lamp Interchangeable with ease
- Easy-to-use Focus Adjustment mechanism
- Plug & Play Heater option ranged of -40°F~122° F(-40°C ~ 50°C)
- Specially designed power circuit guarantees the installation with existing UTP or telephone cable up to 100M long without compromising Day & Night performance

## General Features

- 2D/3DNR(Noise Reduction)
- IR Sensitive Mechanical Day/Night Filter System Built-in
- Motion Detection
- Digital zoom(1.5x ~3x)
- Digital Slow Shutter(DSS)
- RS-485 Interface(Pelco-D)
- External Focus Adjustment
- IP66 Weatherproof
- Privacy Mosaic

| MODEL | VA102E-VL60 |
|---|---|
| Image sensor | 1/3" Sony 960H Double scan CCD |
| Effective Pixels | NTSC : 976(H) x 494(V)<br>PAL : 976(H) x 582(V) |
| H. Resolution | 650 TV Lines(Color) / 700 TV Lines(BW) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 42dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 24VDC |
| Operating current | 140mA at 24VDC(Day)<br>900mA at 24VDC(Night) |
| Lens | 7.5~50mm VF Auto DC iris lens |
| Iris Control | DC IRIS/Manual IRIS by OSD Function |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 220(W) x 261.7(V) x 412.7(L) |
| Weight (Approx.g) | 5,000 |
| **Function** | |
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Digital Slow Shutter | Off / 2x ~ 160x (DSS) |
| Motion Detection | On/Off (4 programmable zones) |
| Face Detection | On/Off (4 Faces) |
| Digital Zoom | Off, X1.5, X2, X3 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mosaic | On/Off (4 programmable zones) |
| **Illumination** | |
| IR Spectrum | Hi-Power, 850mm |
| Viewable distance | 120M |
| MTBF of LED | 20,000 Hours |

## Dimension



# VA102E-VL60W

## White LED Activated WDR Super Night Vision Camera



650 TVL | WDR | 2D + 3D | True Day/Night ICR | IP 66

## Special Features

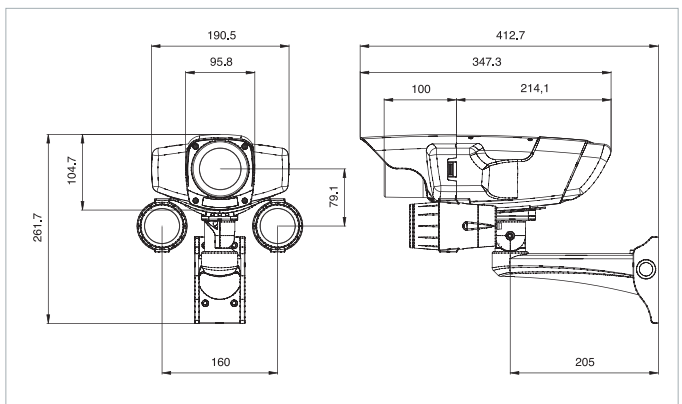
- 1/3" Sony 960H Double Scan CCD
- Super High resolution of 650TVL(Day)/700TVL(Night)
- Powerful night vision up to 100M view
- In motion detection, white LED light is activated in Color mode at night as an option
- Intelligent IR Image Compensation ■ Face Detection up to 4 people
- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Patented SFOCAS(Self FOcus Compensation Against Shift) technology
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- LED Lamp Interchangeable with ease
- Easy-to-use Focus Adjustment mechanism
- Plug & Play Heater option ranged of -40°F~122°F(-40°C ~ 50°C)
- Specially designed power circuit guarantees the installation with existing UTP or telephone cable up to 100M long without compromising Day & Night performance

## General Features

- 2D/3DNR(Noise Reduction)
- IR Sensitive Mechanical Day/Night Filter System Built-in
- Motion Detection
- Digital zoom(1.5x ~3x)
- Digital Slow Shutter(DSS)
- RS-485 Interface(Pelco-D)
- External Focus Adjustment
- IP66 Weatherproof
- Privacy Mosaic

| MODEL | VA102E-VL60W |
|---|---|
| Image sensor | 1/3" Sony 960H Double scan CCD |
| Effective Pixels | NTSC : 976(H) x 494(V)<br>PAL : 976(H) x 582(V) |
| H. Resolution | 650 TV Lines(Color) / 700 TV Lines(BW) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 42dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 24VDC |
| Operating current | 140mA at 24VDC(Day)<br>900mA at 24VDC(Night) |
| Lens | 7.5~50mm VF Auto DC iris lens |
| Iris Control | DC IRIS/Manual IRIS by OSD Function |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 220(W) x 261.7(V) x 412.7(L) |
| Weight (Approx.g) | 5,000 |
| **Function** | |
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Digital Slow Shutter | Off / 2x ~ 160x (DSS) |
| Motion Detection | On/Off (4 programmable zones) |
| Face Detection | On/Off (4 Faces) |
| Digital Zoom | Off, X1.5, X2, X3 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mosaic | On/Off (4 programmable zones) |
| **Illumination** | |
| Illumination | Hi-Power 850mm + White LED |
| Viewable distance | 100M |
| MTBF of LED | 20,000 Hours |

## Dimension



# VN80DZ-10

## 10x 70m View Night Vision Camera




Auto Focus | True Day/Night ICR | IP 67

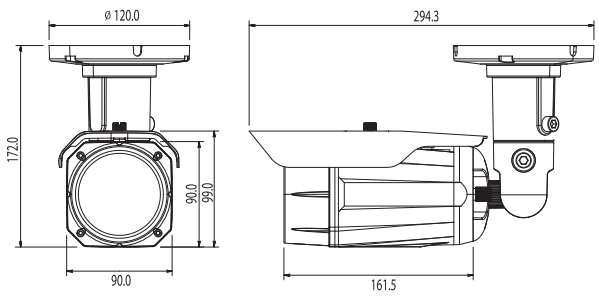
## Special Features

- All-in-One solution with IR Illuminator, Outdoor housing, Sunshield & Bracket
- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Patented SFOCAS(Self FOcus Compensation Against Shift) technology
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- No IR Reflection with separated glasses
- Specially designed power circuit guarantees the installation with existing UTP or telephone cable up to 100M long without compromising Day & Night performance
- Cable concealed thru bracket

## General Features

- 1/4" Sony Super HAD CCD
- Optical 10x, Digital 10x
- 500TVL(Day)/570TVL(Night)
- IR Sensitive Mechanical Day/Night Filter System Built-in
- Powerful Night Sensitivity up to 70M
- Motion Detection
- Privacy masking
- Sens-up(2x ~ 128x)
- RS-485 Interface(Pelco-D)
- IP67 Weatherproof

## Dimension




| MODEL | VN80DZ-10 |
|---|---|
| Image sensor | 1/ 4" Sony Super HAD CCD |
| Effective Pixels | NTSC : 768 (H) x 494 (V)<br>PAL : 752 (H) x 582 (V) |
| H.Resolution | 500 TV Lines (Day) / 570 TV Lines (Night ) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2 :1 Interlaced |
| Video output | 1.0 Vp-p Composit e. 75 Ohms |
| S/N ratio | 50 dB (AGC Off ) |
| Min. illumination | 0Lux |
| **OSD Menu** | |
| Digital Zoom | On / Off (2x ~10x) |
| Day & Night | Color / B/W / Auto (ICR) |
| Back LIght Compensation | Low / Middle / High / Off |
| Shutter Speed | Auto / Manual (NTSC : 1/ 60 ~ 1/ 120,000 sec.)<br>(PAL : 1/ 50 ~ 1/ 120,000 sec.) |
| White Balance | ATW (Indoor : 3,000°K~10,500°K,<br>Outdoor : 1,800°K~10,500°K ) / AWC / Manual |
| Gain Control | Low / Middle / High / Off |
| Sens-up | Auto (2x~128x) / Off |
| DNR | Low / Middle / High / Off |
| Communication | RS-485 interface(Pelco-D) |
| **POWER** | |
| Power source | 24VDC / 24VAC |
| Operating current | DC : 140mA(IR "Off" at Day)/450mA<br>(IR "On" at Night )<br>AC : 130mA(IR "Off" at Day)/380mA<br>(IR "On" at Night ) |
| **LENS** | |
| Lens | Auto Focus Digital zooms |
| Zoom ratio | 10x, f3.8 ~38mm (F1.8 ) |
| Min. focus distance | 1.5M |
| Angle of view Lens initialization | Horizontal : Approx 52.2°(Wide) to 5.58°(Tele)<br>Vertical: Approx 39.3°(Wide) to 4.27°(Tele) |
| Digital Zoom | On / Off (2x~10x) |
| **Operating** | |
| Operating Temperature | 14°F ~ 122°F (-10°C ~ +50°C) |
| Humidity | Within 90% RH |
| Weatherproof rating | IP67 |
| Measurement (mm) | 120 (W) x 172 (V) x 294.3 (L) |
| Weight (Approx.g) | 3,000 |
| Connection | Cable concealed thru Bracket |
| **IR Function** | |
| IR LED | Hi-Power, 850mm |
| Viewable distance | Up to 70M at moonless night |
| MTBF of IR | 20,000 Hours |

# VN80S-V50L

## 70m View WDR IR Outdoor Camera




600 TVL | Smart IR | WDR | 2D + 3D | True Day/Night ICR | IP 67

## Special Features

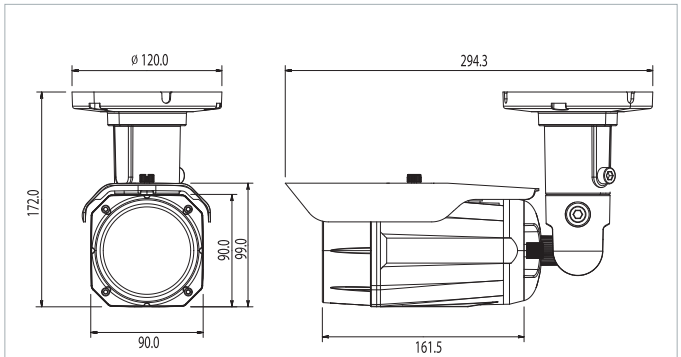
- All-in-One solution with IR Illuminator, Outdoor housing, Sunshield & Bracket
- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Intelligent IR Image Compensation
- Patented SFOCAS(Self FOcus Compensation Against Shift) technology
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- No IR Reflection with separated glasses
- External Focus adjustment
- Cable Concealed Thru Bracket
- Perfect 3-Axis mount
- Rugged Design

## General Features

- Super Wide Dynamic(WideLux chip embedded – Ref. page11)
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- 4-9mm/9-22mm/5-50mm VF DC Iris lens
- Powerful Night Sensitivity up to 70M
- IR Sensitive Mechanical Day/Night Filter System Built-in
- Motion Detection
- DIS(Digital Image Stabilizer)
- Highlight Eclipse
- RS-485 Interface(Pelco-D)
- IP67 Weatherproof

| MODEL | VN80S-V50L |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC : 1/60~1/100,000 sec.<br>PAL : 1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC, 24VAC |
| Operating current | 150mA /12VDC(IR off), 500mA /12VDC(IR on)<br>100mA /24VAC(IR off), 400mA /24VAC(IR on) |
| Lens | 4~9mm/9~22mm/5~50mm VF Auto DC iris lens |
| IR Spectrum | 850mm |
| Viewable Distance | Up to 70M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | DC IRIS |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 120(W) x 172(V) x 294.3(L) |
| Weight (Approx.g) | 2,700 |
| **Function** | |
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.30 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

## Dimension



# VN7XEH-V50L

## 50m View 650TVL Night Vision Camera




650 TVL | Smart IR | ATR | 2D | True Day/Night ICR | IP 67

### Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- Diverse White Balance (ATW, Push, Push Lock, User 1/2, Anti Color Rolling, Manual)
- Dynamic and Static White Blemish Compensation
- Privacy Mosaic
- 50M IR Beam Distance/5-50mm lens, 30M IR Beam Distance/2.8-12mm lens
- True Day & Night(ICR)
- Easy-to-play OSD button on the unit
- Intelligent IR Image Compensation
- RS-485 Interface(Pelco-D Protocol)
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish/ Portuguese/ Japanese)
- Extra Video Out
- External Focus Adjustment
- Cable Managed Bracket
- IP66 Weatherproof

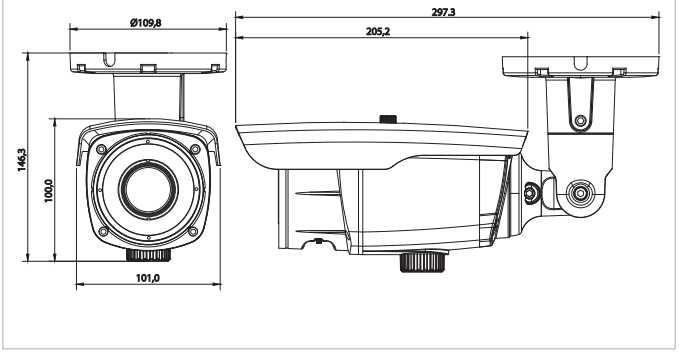
### Options

- Lens : 2.8-12mm/ 5-50mm Varifocal DC Auto Iris lens
- Power source : 12VDC, 12VDC/24VAC
- Heater : VN7XEH-HT [-40℃ ~ 50℃(-40℉ ~ 122℉)]

| MODEL | VN7XEH-V50L |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push/ Push lock/ User 1/2, Anti CR, Manual) |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 120mA/12VDC(IR Off), 340mA/12VDC(IR On)<br>80mA/24VAC(IR Off), 200mA/24VAC(IR On) |
| Lens(Standard) | 5-50mm Varifocal DC Auto Iris lens |
| Lens(Option) | 2.8-12mm Varifocal DC Auto Iris lens |
| LED Spectrum | 850nm |
| Viewable Distance | Up to 50M/5-50mm lens, 30M/2.8-12mm lens at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH),<br>Option : -40°C ~ 50°C(-40°F ~ 122°F) |
| IP Rating | 67 |
| Measurement (mm) | 101(W) x108.7(H)x297(D) |
| Weight (Approx. g) | 220 |

| Function | |
|---|---|
| Shutter/ AGC | Auto/ Manual |
| White Balance | ATW / Push /Push Lock / User 1, 2/ Anti CR/ Manual |
| Picture Adjustment | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| Privacy Mosaic | On/Off (4 Zone setting available) |
| NR | NR Mode/ Y Level/ C Level |
| Camera ID | On/ Off |
| Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/ Japanese |

### Dimension



# VN7XS-SF

## 12x Motorized Zoom WDR IR Outdoor Camera

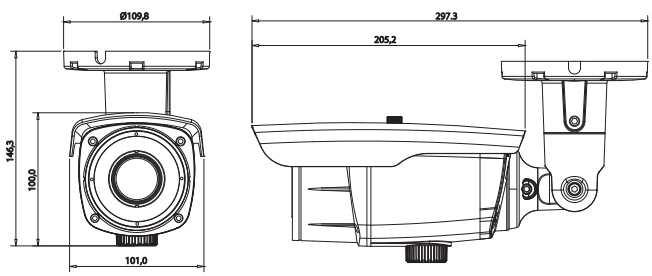



600 TVL | Smart IR | Motorized Zoom | WDR | 2D + 3D | IP 67

## Key Features

- 1/3" Sony Super HAD CCD II
- Super Wide Dynamic (WDR)
- Easy-to-use OSD Functions Adjustment
- Motorized Lens Control(Local control with built-in button and remote control via RS-485) enables quick and easy zoom and Semi Auto Focus control
- High Resolution of 600TVL at Day / 650TVL at Night
- 2D/3DNR (2D/3D Noise Reduction)
- 5~50mm(2.8 ~ 12mm) Motorized Zoom Lens
- Powerful Night Sensitivity up to 50M
- Intelligent IR Compensation
- Extended IR LED's Life Cycle and the sensitivity
- HSBLC(Highlight Suppression BLC)
- Stablizer(Compensates Camera Movement)
- IR Sensitive Mechanical Day/Night Filter System Built-in
- Motion Detection
- 12VDC/24VAC Non-polarity Power Input
- IP67 Weatherproof

## Dimension




| MODEL | VN7XS-SF |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V) |
| H. Resolution | 600TV Lines(Day)/650TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>(ATW/PushLock/Manual selectable by OSD) |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC/24VAC |
| Operating current | 120mA at12VDC(IR Off), 520mA/12VDC(IR On)<br>90mA at24VAC(IR Off), 400mA/24VAC(IR On) |
| Lens(Standard) | 5~50mm VF Auto motorized DC iris lens |
| Lens(Option) | 2.8~12mm VF Auto motorized DC iris lens |
| Viewable Distance | 5~50mm:Up to 50M<br>2.8~12mm:Up to 30M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | DC IRIS |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 80%RH) |
| IP Rating | IP 67 |
| Measurement (mm) | 101(W) x 108.7(V) x 297(L) |
| Weight (Approx.g) | 2,200 |

| Function | |
|---|---|
| WDR/BLC | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sensor-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.3 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

# VN70IIS-V50L

## 50m View WDR IR Outdoor Camera




600 TVL | Smart IR | WDR | 2D + 3D | True Day/Night ICR | IP 67

## Special Features

- All-in-One solution with IR Illuminator, Outdoor housing, Sunshield & Bracket
- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Perfect Heat Sink mechanism with close contacts between IR LED kit and housing
- Intelligent IR Image Compensation
- Patented SFOCAS(Self FOcus Compensation Against Shift) technology
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- No IR Reflection with separated glasses
- External Focus adjustment
- Cable Concealed Thru Bracket
- Perfect 3-Axis mount

## General Features

- Super Wide Dynamic(WideLux chip embedded – Ref. page11)
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- Powerful Night Sensitivity up to 50M
- Motion Detection
- 2.8-12mm/5-50mm VF DC Iris lens
- IR Sensitive Mechanical Day/Night Filter System Built-in
- DIS(Digital Image Stabilizer)
- Highlight Eclipse
- RS-485 Interface(Pelco-D)
- IP67 Weatherproof
- 12VDC/24VAC Non-polarity Power Input

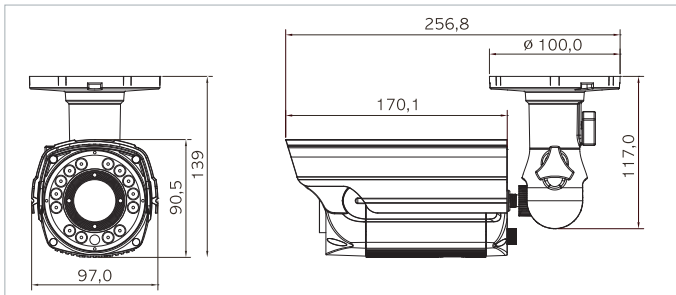
## Zoom & Focus External adjustment




| MODEL | VN70IIS-V50L |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC :1/60~1/100,000 sec.<br>PAL :1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto.<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC / 24VAC |
| Operating current | 120mA /12VDC(IR Off), 520mA/12VDC(IR On)<br>90mA / 24VAC(IR Off), 400mA/24VAC(IR On) |
| Lens | 2.8~12mm/5~50mm<br>VF Auto DC iris lens |
| IR Spectrum | 850mm |
| Viewable Distance | Up to 50M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | DC IRIS |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 97(W) x 90.5(V) x 256.8(L) |
| Weight (Approx.g) | 2,200 |

| Function | |
|---|---|
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.30 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

## Dimension



# VN70IIEH-V50L

## 50m View 650TVL IR Outdoor Camera




650 TVL | Smart IR | ATR | 2D | True Day/Night ICR | IP 67

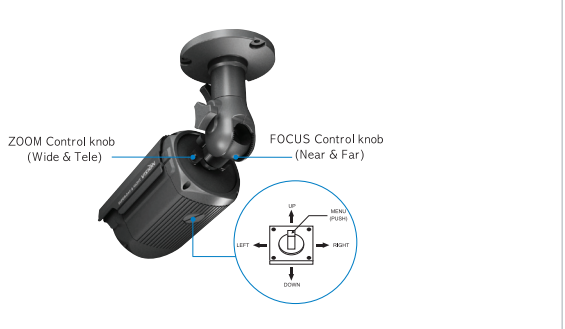
## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- Diverse White Balance (ATW, Push, Push Lock, User 1/2, Anti Color Rolling, Manual)
- Dynamic and Static White Blemish Compensation
- Privacy Mosaic
- 50M IR Beam Distance
- True Day & Night(ICR)
- Intelligent IR Image Compensation
- Easy-to-play OSD button on the unit
- RS-485 Interface(Pelco-D Protocol)
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish/ Portuguese/ Japanese)
- Extra Video Out
- External Focus Adjustment
- Cable Managed Bracket
- IP67 Weatherproof

## Options

- Lens : 2.8-12mm/ 5-50mm Varifocal DC Auto Iris lens
- Power source : 12VDC, 12VDC/24VAC

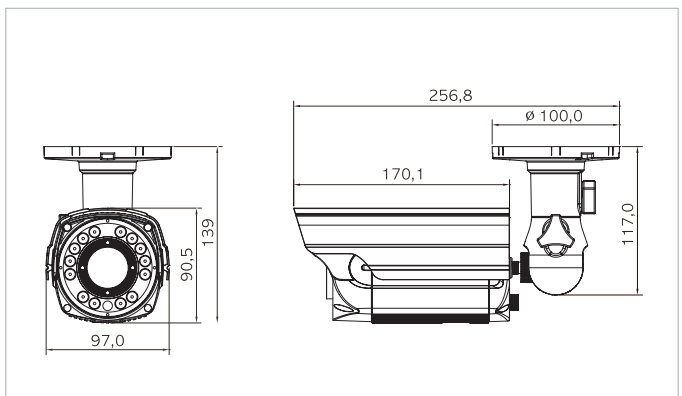
## Zoom & Focus External adjustment




| MODEL | VN70IIEH-V50L |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push /Push lock/ User 1/2, Anti CR, Manual) |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 120mA/12VDC(IR Off), 520mA/12VDC(IR On)<br>90mA/24VAC(IR Off), 400mA/24VAC(IR On) |
| Lens(Standard) | 2.8-12mm Varifocal DC Auto Iris lens |
| Lens(Option) | 5-50mm Varifocal DC Auto Iris lens |
| LED Spectrum | 850nm |
| Viewable Distance | Up to 50M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| IP Rating | 67 |
| Measurement (mm) | 97(V) x90.5(H)x256.8(D) |
| Weight (Approx. g) | 2,200 |

| Function | |
|---|---|
| Shutter/ AGC | Auto/ Manual |
| White Balance | ATW / Push / Push Lock / User 1, 2/ Anti CR/ Manual |
| Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| Privacy Mosaic | On/Off (4 Zone setting available) |
| NR | NR Mode/ Y Level/ C Level |
| Camera ID | On/ Off |
| Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/ Japanese |

## Dimension



# VN320

## 30m View Pixim Seawolf WDR IR Outdoor Camera

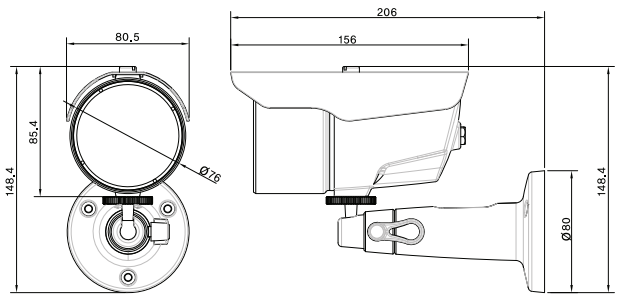



Smart IR | WDR | 2D + 3D | IP 67

## Key Features

- 1/3" Pixim WDR Digital Imaging Device
- IR Sensitive Mechanical Day/Night Filter System Built-in
- Optic photo sensor built-in
- High Resolution of 690 HTVL effective
- 2DNR (2D Noise Reduction)
- 3DNR (3D Motion Adaptive Noise Reduction)
- Dynamic Range 120dB Maximum
- Digital Zoom 8X (Pan, Tilt)
- Digital Slow Shutter(DSS 32x max)
- Privacy masking(6 zones)
- RS-485(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input
- Extra Video Out
- Easy-to-play OSD button on the unit

## Dimension




| MODEL | VN320 |
|---|---|
| Image sensor | 1/3" WDR digital imaging device |
| Dynamic Range | 102dB typical / 120dB max. |
| Video capture | Progressive Scan 50fps / 60fps |
| Transfer format | PsF (Progressive with Segmented Frames) |
| Total Pixels | 768(H) x 548(V) pixel |
| Effective Pixels | 758(H) x 540(V) pixel |
| H.Resolution | 690 HTVL effective |
| Synchronizing system | Internal |
| Video output | 1.0 to 1.2 Vp-p Composite 75 Ohms (NTSC/PAL Compatible) |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | OLux |
| Electronic Shutter Speed | 1/25 ~ 1/30,720 second (F1.4) |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| AGC | Programable up to 55dB |
| Power source | 12VDC / 24VAC |
| Operating current | 210mA at 12VDC(IR Off), 580mA at 12VDC(IR On)<br>120mA at 24VAC(IR Off), 250mA at 24VAC(IR On) |
| Lens | 2.8~12mm Varifocal DC Iris Lens |
| Viewable Distance | Up to 30M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10℃ ~ +50℃ (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 80.5(W)x148.4(H)x206(D) |
| Weight (Approx.g) | 800 |

| Function | |
|---|---|
| WDR | Low / Middle / High / User(0 ~ 36) |
| White Balance | ATW / AWC / Manual selectable<br>2,000°K ~ 11,000°K Auto |
| Gamma Correction | $\gamma$ 0.25 ~ $\gamma$ 1 (25 ~ 100) |
| Back Light Compensation | Off / On |
| AGC | 26dB / 30dB / 34dB / 40dB / 46dB / 51dB / 55dB |
| 2DNR | Off / On (User selectable by OSD) |
| Digital Slow Shutter | Off / 2x ~ 32x (DSS) |
| Digital PTZ | Off, X1 ~ X8(Pan, Tilt) |
| Day / Night | Ext / Auto / Color / BW (Burst On/Off) |
| Reversal | NORMAL / H-REV / V-REV / FLIP |
| Privacy Mask | Off / On (6 Zone setting available) |
| Protocol | Pelco-D (2400 / 4800 / 9600 / 19200) |
| Lens Setting | MANUAL / DC |

# VN300HB/ VN310HB

## Med-Res Long Range IR Outdoor Camera




Smart IR | 2D | IP 67

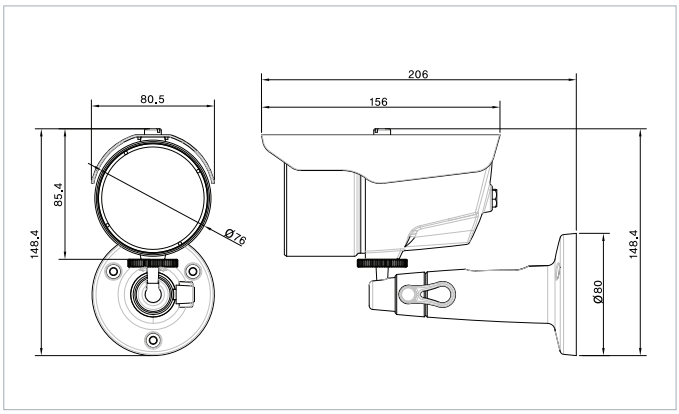
| MODEL | VN300HB | VN310HB |
|---|---|---|
| Image sensor | 1/3" Sony Super HAD CCD | |
| Effective Pixels | NTSC : 512(H) x 492(V)<br>PAL : 500(H) x 582(V) | |
| H. Resolution | NTSC : 380 TV Lines(Day)/400 TV Lines(Night)<br>PAL : 400 TV Lines(Day)/420 TV Lines(Night) | |
| Synchronizing system | Internal | |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced | |
| Video output | 1.0Vp-p Composite 75 Ohms | |
| S/N ratio | More than 52dB (AGC Off) | |
| Min. Illumination | 0Lux | |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. | |
| Gamma Correction | Standard $\gamma$ = 0.45 | |
| White Balance | 2,300°K ~ 10,500°K Auto<br>ATW1/ATW2/AWC->SET/Manual selectable by OSD | |
| Gain Control | Standard : -6dB ~ 34dB Auto | |
| Smear Effect | 0.005% | |
| Power source | 12VDC, 12VDC/24VAC | |
| Operating current | 80mA at 12VDC(IR Off), 380mA at 12VDC(IR On)<br>40mA at 24VAC(IR Off), 190mA at 24VAC(IR On) | |
| Lens(Standard) | 2.8~12mm Varifocal DC Iris Lens | |
| Viewable Distance | 50M | 35M |
| MTBF of IR | 20,000 hours | |
| Iris Control | Auto | |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 80%RH) | |
| Measurement (mm) | 80.5(W)x148.4(H)x206(D) | |
| Weight (Approx.g) | 800 | |

| Function | |
|---|---|
| D-WDR/BLC | Off / On (User selectable by OSD) |
| 2DNR | Off / On (User selectable by OSD) |
| Privacy Mask | Off / On (8 Zone setting available) |
| Motion Detection | On/Off (4 Zone setting available) |
| Image ADJ. | Lens SHAD/Mirror/Sharpness/Contrast |
| Language | English |

## Key Features

- 1/3" Sony Super HAD CCDII
- 2DNR
- Lens Shading Compensation
- Digital Wide Dynamic Range(D-WDR)
- Day & Night
- Smart IR
- Wide range of Auto White Balance
- Waterproof IP67
- RS-485 Interface for external control of OSD
- Privacy Mask
- Motion Detection
- 12VDC/24VAC Non-polarity Power Input
- Easy-to-play OSD button on the unit
- Extra Video Out
- HSBLC

## Dimension



# VN300HBH/ VN310HBH

## Hi-Res Long Range IR Outdoor Camera




600 TVL | Smart IR | 2D | IP 67

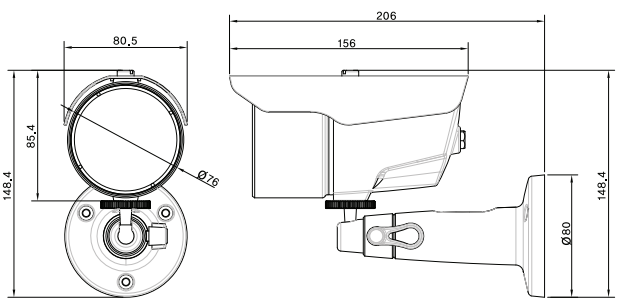
### Key Features

- 1/3" Sony Super HAD CCD II
- High Resolution of 600TVL
- 2DNR
- Lens Shading Compensation
- Digital Wide Dynamic Range(D-WDR)
- Day & Night
- Smart IR
- Wide range of Auto White Balance
- Waterproof IP67
- RS-485 Interface for external control of OSD
- Privacy Mask
- Motion Detection
- 12VDC/24VAC Non-polarity Power Input
- Easy-to-play OSD button on the unit
- Extra Video Out
- HSBLC

| MODEL | VN300HBH | VN310HBH |
|---|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II | |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) | |
| H. Resolution | NTSC : 600 TV Lines(Day)/650 TV Lines(Night)<br>PAL : 590 TV Lines(Day)/640 TV Lines(Night) | |
| Synchronizing system | Internal | |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced | |
| Video output | 1.0Vp-p Composite 75 Ohms | |
| S/N ratio | More than 52dB (AGC Off) | |
| Min. Illumination | 0Lux | |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. | |
| Gamma Correction | Standard $\gamma$ = 0.45 | |
| White Balance | 2,300°K ~ 10,500°K Auto<br>ATW1/ATW2/AWC->SET/Manual selectable by OSD | |
| Gain Control | Standard : -6dB ~ 34dB Auto | |
| Smear Effect | 0.005% | |
| Power source | 12VDC, 12VDC/24VAC | |
| Operating current | 80mA at12VDC(IR Off) 380mA at12VDC(IR On)<br>40mA at24VAC(IR Off) 190mA at24VAC(IR On) | |
| Lens(Standard) | 2.8~12mm Varifocal DC Iris Lens | |
| Viewable Distance | 50M | 35M |
| MTBF of IR | 20,000 hours | |
| Iris Control | Auto | |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0%RH ~ 80%RH) | |
| Measurement (mm) | 80.5(W)x148.4(H)x206(D) | |
| Weight (Approx.g) | 800 | |

| Function | |
|---|---|
| D-WDR/BLC | Off / On (User selectable by OSD) |
| 2DNR | Off / On (User selectable by OSD) |
| Privacy Mask | Off / On (8 Zone setting available) |
| Motion Detection | On/Off (4 Zone setting available) |
| Image ADJ. | Lens SHAD/Mirror/Sharpness/Contrast |
| Language | English |

### Dimension



# VN6XS-SF

## 10x Motorized Zoom IR Outdoor Camera




600 TVL | Smart IR | Motorized Zoom | WDR | 2D + 3D | IP 67

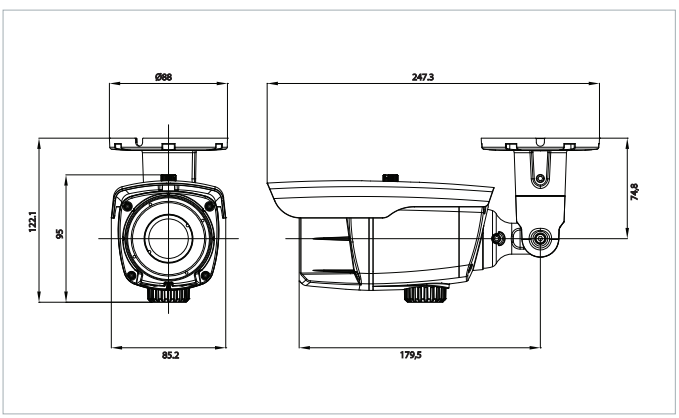
## Key Features

- 1/3" Sony Super HAD CCD II
- Super Wide Dynamic (WDR)
- Easy-to-use OSD Functions Adjustment at RS-485(Pelco-D)
- Motorized Lens Control(Local control with built-in button and remote control via RS-485)-Enables quick and easy zoom and Semi Auto Focus control
- High Resolution of 600TVL at Day / 650TVL at Night
- 2D/3DNR (2D/3D Noise Reduction)
- 5~50mm(2.8 ~ 12mm) Motorized Zoom Lens
- Powerful Night Sensitivity up to 50M
- Intelligent IR Compensation
- Extended IR LED's Life Cycle and the sensitivity
- HSBLC(Highlight Suppression BLC)
- Stablizer(Compensates Camera Movement)
- IR Sensitive Mechanical Day/Night Filter System Built-in
- Motion Detection
- 12VDC/24VAC Non-polarity Power Input
- IP67 Weatherproof

| MODEL | VN6XS-SF |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V) |
| H. Resolution | 600TV Lines(Day)/650TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>(ATW/PushLock/Manual selectable by OSD) |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC/24VAC |
| Operating current | 120mA at12VDC(IR Off), 520mA/12VDC(IR On)<br>90mA at24VAC(IR Off), 400mA/24VAC(IR On) |
| Lens(Standard) | 5~50mm VF Auto motorized DC iris lens |
| Lens(Option) | 2.8~12mm VF Auto motorized DC iris lens |
| Viewable Distance | Up to 50M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | DC IRIS |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 87.7(W) x 96(H) x 278.1(D) |
| Weight (Approx.g) | 1,500 |

| Function | |
|---|---|
| WDR/BLC | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sensor-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X6 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

## Dimension



# VN6XEH-V12IR

## 30m View 650TVL IR Outdoor Camera




650 TVL | Smart IR | ATR | 2D | True Day/Night ICR | IP 67

### Key Features of Effio-E

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- Privacy Mosaic
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- Diverse White Balance (ATW, Push, Push Lock, User 1/2, Anti Color Rolling, Manual)
- Dynamic and Static White Blemish Compensation

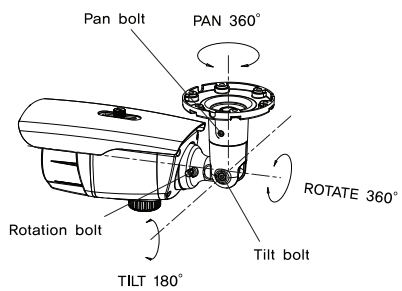
### Key Features of VN6XEH

- 30M IR Beam Distance
- True Day & Night(ICR)
- 2.8-12mm Varifocal DC Auto Iris lens
- Extra Video Out
- Intelligent IR Image Compensation
- External Focus Adjustment
- Easy-to-play OSD button on the unit
- IP66 Weatherproof
- RS-485 Interface(Pelco-D Protocol)
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish/ Portuguese/ Japanese)
- Cable Managed Bracket

### Options

- Lens : 2.9mm/3.6mm/ 6mm Fixed Iris lens-Digital Day & Night
- Power source : 12VDC, 12VDC/24VAC
- Heater : VN6XEH-HT [-40°C ~ 50°C(-40°F ~ 122°F)

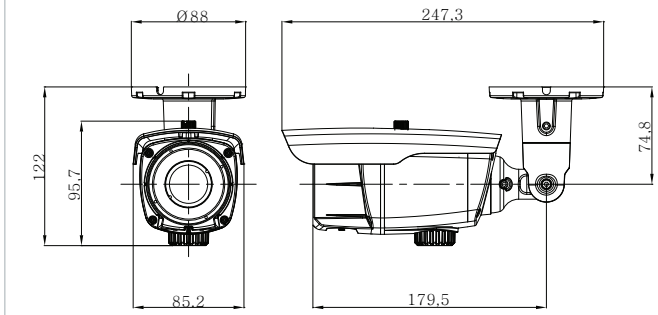
### Perfect 3-Axis




| MODEL | VN6XEH-V12IR |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push/ Push lock/ User 1/2, Anti CR, Manual) |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 120mA/12VDC(IR Off), 370mA/12VDC(IR On)<br>80mA/24VAC(IR Off),220mA/24VAC(IR On) |
| Lens(Standard) | 2.8-12mm Varifocal DC Auto Iris lens |
| Lens(Option) | 2.9mm/ 3.6mm/ 6mm Fixed Iris lens |
| LED Spectrum | 850nm |
| Viewable Distance | Up to 30M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH),<br>Option : -40°C ~ 50°C(-40°F ~ 122°F) |
| IP Rating | 66 |
| Measurement (mm) | 87.7(V) x96(H)x278.1(D) |
| Weight (Approx. g) | 1,500 |

| Function | |
|---|---|
| Shutter/ AGC | Auto/ Manual |
| White Balance | ATW / Push / Push Lock / User 1, 2/<br>Anti CR/ Manual |
| Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness,<br>HUE, Gain |
| Privacy Mosaic | On/Off (4 Zone setting available) |
| NR | NR Mode/ Y Level/ C Level |
| Camera ID | On/ Off |
| Language | English/ Germany/ French/ Russian/ Spanish/<br>Portuguese/ Japanese |

### Dimension




Analog

# VN220

## 20m View Pixim Seawolf WDR IR Outdoor Camera

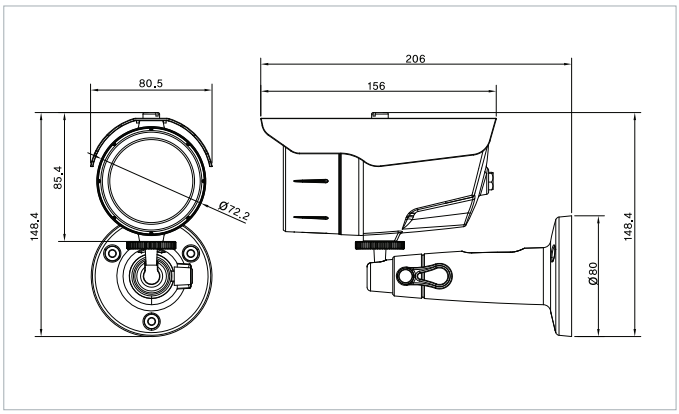



Smart IR | WDR | 2D + 3D | IP 67

## Key Features

- 1/3" Pixim WDR Digital Imaging Device
- IR Sensitive Mechanical Day/Night Filter System Built-in
- Optic photo sensor built-in
- High Resolution of 690HTVL effective
- 2DNR (2D Noise Reduction)
- 3DNR (3D Motion Adaptive Noise Reduction)
- Dynamic Range 120dB Maximum
- Digital Zoom 8X (Pan, Tilt)
- Digital Slow Shutter(DSS 32x max)
- Privacy masking(6 zones)
- RS-485(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input
- Extra Video Out
- Easy-to-play OSD button on the unit

## Dimension




| MODEL | VN220 |
|---|---|
| Image sensor | 1/3" WDR digital imaging device |
| Dynamic Range | 102dB typical / 120dB max. |
| Video capture | Progressive Scan 50fps / 60fps |
| Transfer format | PsF (Progressive with Segmented Frames) |
| Total Pixels | 768(H) x 548(V) pixel |
| Effective Pixels | 758(H) x 540(V) pixel |
| H.Resolution | 690HTVL effective |
| Synchronizing system | Internal |
| Video output | 1.0 to 1.2 Vp-p Composite 75 Ohms (NTSC/PAL Compatible) |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0Lux |
| Electronic Shutter Speed | 1/25 – 1/30,720 second (F1.4) |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| AGC | Programable up to 55dB |
| Power source | 12VDC / 24VAC |
| Operating current | 210mA at12VDC(IR Off), 440mA at12VDC(IR On) 120mA at24VAC(IR Off), 200mA at24VAC(IR On) |
| Lens(Standard) | 2.8~12mm Varifocal DC Iris Lens |
| Viewable Distance | Up to 20M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10℃ ~ +50℃ (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 80.5(W) x 148.4(H) x 206(D) |
| Weight (Approx.g) | 700 |

| Function | |
|---|---|
| WDR | Low / Middle / High / User(0 ~ 36) |
| White Balance | ATW / AWC / Manual selectable 2,000°K ~ 11,000°K Auto |
| Gamma Correction | $\gamma$ 0.25 ~ $\gamma$ 1 (25 ~ 100) |
| Back Light Compensation | Off / On |
| AGC | 26dB / 30dB / 34dB / 40dB / 46dB / 51dB / 55dB |
| 2DNR | Off / On (User selectable by OSD) |
| Digital Slow Shutter | Off / 2x ~ 32x (DSS) |
| Digital PTZ | Off, X1 ~ X8(Pan, Tilt) |
| Day / Night | Ext / Auto / Color / BW (Burst On/Off) |
| Reversal | NORMAL / H-REV / V-REV / FLIP |
| Privacy Mask | Off / On (6Zone setting available) |
| Protocol | Pelco-D (2400 / 4800 / 9600 / 19200) |
| Lens Setting | MANUAL / DC |

# VN200HB/ VN210HB

## Med-Res Junior Range IR Outdoor Camera




Smart IR | 2D | IP 67

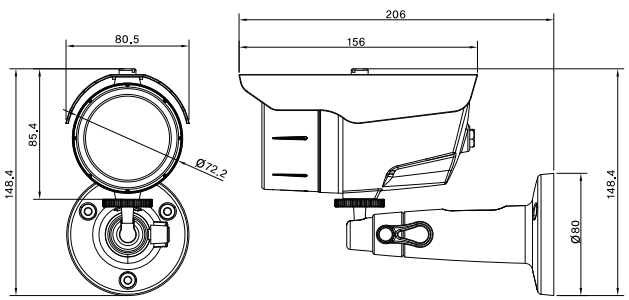
## Key Features

- 1/3" Sony Super HAD CCDII
- 2DNR
- Lens Shading Compensation
- Digital Wide Dynamic Range(D-WDR)
- Day & Night
- Smart IR
- Wide range of Auto White Balance
- Waterproof IP67
- RS-485 Interface for external control of OSD
- Privacy Mask
- Motion Detection
- 12VDC/24VAC Non-polarity Power Inut
- Easy-to-play OSD button on the unit
- HSBLC

| MODEL | VN200HB/ VN210HB |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD |
| Effective Pixels | NTSC : 512(H) x 492(V)<br>PAL : 500(H) x 582(V) |
| H. Resolution | NTSC : 380 TV Lines(Day)/400 TV Lines(Night)<br>PAL : 400 TV Lines(Day)/420 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 2,300°K ~ 10,500°K Auto<br>ATW1/ATW2/AWC->SET/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 80mA at12VDC(IR Off), 220mA at12VDC(IR On)<br>40mA at24VAC(IR Off), 110mA at24VAC(IR On) |
| Lens(Standard) | 2.8~12mm Varifocal DC Iris Lens |
| Viewable Distance | Up to 30M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 80.5(W) x 148.4(H) x 206(D) |
| Weight (Approx.g) | 700 |

| Function | |
|---|---|
| D-WDR/BLC | Off / On (User selectable by OSD) |
| 2DNR | Off / On (User selectable by OSD) |
| Privacy Mask | Off / On (8Zone setting available) |
| Motion Detection | On/Off (4Zone setting available) |
| Image ADJ. | Lens SHAD/Mirror/Sharpness/Contrast |
| Language | English |

## Dimension



# VN200HBH/ VN210HBH

## Hi-Res Junior Range IR Outdoor Camera



600 TVL | Smart IR | 2D | IP 67

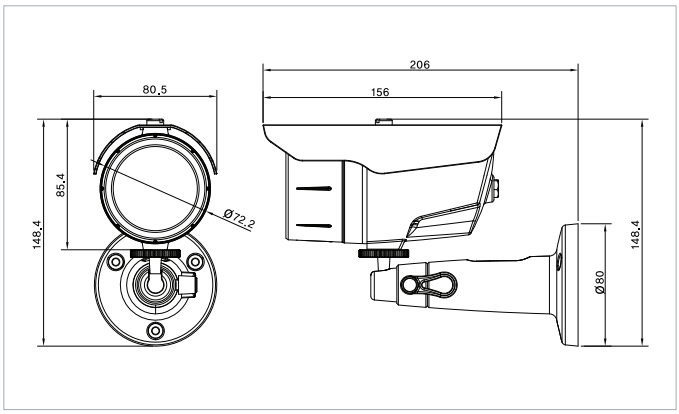
## Key Features

- 1/3" Sony Super HADII CCD
- High Resolution of 600TVL
- 2DNR
- Lens Shading Compensation
- Digital Wide Dynamic Range(D-WDR)
- Day & Night
- Smart IR
- Wide range of Auto White Balance
- Waterproof IP67
- RS-485 Interface for external control of OSD
- Privacy Mask
- Motion Detection
- 12VDC/24VAC Non-polarity Power Inut
- Easy-to-play OSD button on the unit
- HSBLC

| MODEL | VN200HBH | VN210HBH |
|---|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II | |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) | |
| H. Resolution | NTSC : 600 TV Lines(Day)/650 TV Lines(Night)<br>PAL : 590 TV Lines(Day)/640 TV Lines(Night) | |
| Synchronizing system | Internal | |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced | |
| Video output | 1.0Vp-p Composite 75 Ohms | |
| S/N ratio | More than 52dB (AGC Off) | |
| Min. Illumination | 0Lux | |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. | |
| Gamma Correction | Standard $\gamma$ = 0.45 | |
| White Balance | 2,300°K ~ 10,500°K Auto<br>ATW1/ATW2/AWC->SET/Manual selectable by OSD | |
| Gain Control | Standard : -6dB ~ 34dB Auto | |
| Smear Effect | 0.005% | |
| Power source | 12VDC, 12VDC/24VAC | |
| Operating current | 80mA at12VDC(IR Off) 220mA at12VDC(IR On)<br>40mA at24VAC(IR Off) 110mA at24VAC(IR On) | |
| Lens(Standard) | 2.9mm/3.6mm,<br>4.3mm/6mm/8mm | 2.8~12mm Varifocal<br>DC Iris Lens |
| Viewable Distance | 30M | 20M |
| MTBF of IR | 20,000 hours | |
| Iris Control | Auto | |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0%RH ~ 80%RH) | |
| Measurement (mm) | 80.5(W) x 148.4(H) x 206(D) | |
| Weight (Approx.g) | 700 | |

| Function | |
|---|---|
| D-WDR/BLC | Off / On (User selectable by OSD) |
| 2DNR | Off / On (User selectable by OSD) |
| Privacy Mask | Off / On (8 Zone setting available) |
| Motion Detection | On/Off (4 Zone setting available) |
| Image ADJ. | Lens SHAD/Mirror/Sharpness/Contrast |
| Language | English |

## Dimension



# VN5XEH

## 650TVL IR Outdoor Camrea



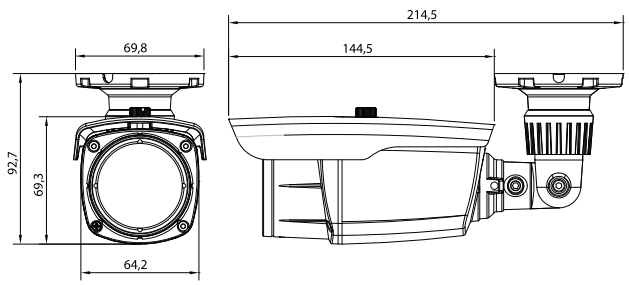

650 TVL | Smart IR | IP 67

| MODEL | VN5XEH |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 100mA(IR Off), 250mA(IR On) |
| Lens | 2.9mm/ 3.6mm/ 4.3mm/ 6mm<br>Fixed Iris lens |
| LED Spectrum | 850nm |
| Viewable Distance | Up to 15M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Electronic |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| IP Rating | 67 |
| Measurement (mm) | 69.8(W) x 92.7(H) x 214.5(D) |
| Weight (Approx. g) | 490 |

## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- 15M IR Beam Distance
- 2.9mm/ 3.6mm/ 4.3mm/ 6mm Fixed Iris lens
- Digital Day & Night
- Intelligent IR Image Compensation
- Cable Managed Bracket
- IP67 Weatherproof
- 12VDC

## Dimension



# VN5XHB

## Med-Res IR Outdoor Camera



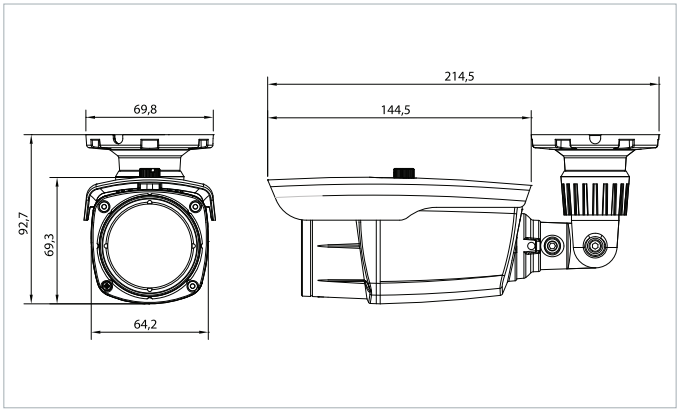

Smart IR | 2D | IP 67

| MODEL | VN5XHB |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD |
| Effective Pixels | NTSC : 512(H) x 492(V)<br>PAL : 500(H) x 582(V) |
| H. Resolution | NTSC : 380 TV Lines(Day)/400 TV Lines(Night)<br>PAL : 400 TV Lines(Day)/420 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | Auto |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 2,300°K ~ 10,500°K Auto |
| Gain Control | Standard : -6dB ~ 34dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 60mA at12VDC(IR Off) 230mA at12VDC(IR On) |
| Lens(Standard) | 3.6mm Lens |
| Lens(Option) | 2.9/4.3/8mm Lens |
| Viewable Distance | Up to 15M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 69.8(W) x 92.7(H) x 214.5(D) |
| Weight (Approx.g) | 490 |

## Key Features

- 1/3" Sony Super HAD CCDII
- 2DNR
- Lens Shading Compensation
- Digital Wide Dynamic Range(D-WDR)
- Day & Night
- Smart IR
- Wide range of Auto White Balance
- Waterproof IP67

## Dimension



# VN5XHBH

## Hi-Res IR Outdoor Camera



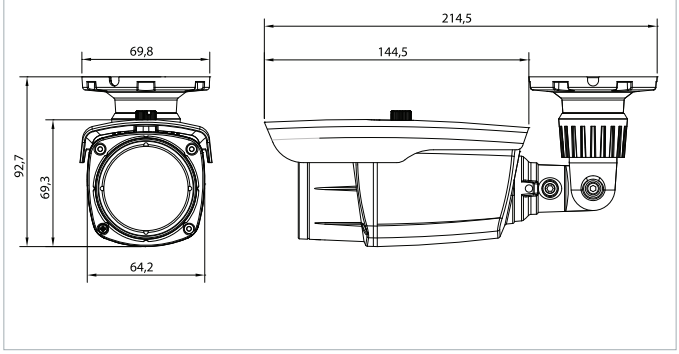

600 TVL | Smart IR | 2D | IP 67

| MODEL | VN5XHBH |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | NTSC : 600 TV Lines(Day)/650 TV Lines(Night)<br>PAL : 590 TV Lines(Day)/640 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | Auto |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 2,300°K ~ 10,500°K Auto |
| Gain Control | Standard : -6dB ~ 34dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 60mA at12VDC(IR Off) 230mA at12VDC(IR On) |
| Lens(Standard) | 3.6mm Lens |
| Lens(Option) | 2.9/4.3/8mm Lens |
| Viewable Distance | Up to 15M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 69.8(W) x 92.7(H) x 214.5(D) |
| Weight (Approx.g) | 490 |

## Key Features

- 1/3" Sony Super HAD CCD II
- High Resolution of 600TVL
- 2DNR
- Lens Shading Compensation
- Digital Wide Dynamic Range(D-WDR)
- Day & Night
- Smart IR
- Wide range of Auto White Balance
- Waterproof IP67

## Dimension



# VDB105S-SF

## 4x Motorized Zoom IR Vandal Dome camera

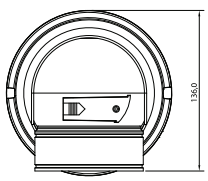


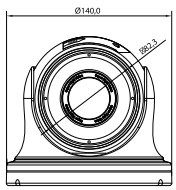
600 TVL | Smart IR | Motorized Zoom | WDR | 2D + 3D | IP 66

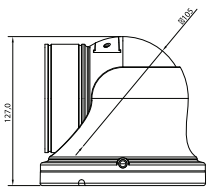
## Key Features

- 1/3" Sony Super HAD CCD II
- Super Wide Dynamic (WDR)
- Easy-to-use OSD Functions Adjustment at RS-485(Pelco-D)
- Motorized Lens Control(Local control with built-in button and remote control via RS-485) enables quick and easy zoom and Semi Auto focus control
- High Resolution of 600TVL at Day / 650TVL at Night
- 2D/3DNR (2D/3D Noise Reduction)
- 2.8 ~ 12mm Varifocal Motorized Lens
- Powerful Night Sensitivity up to 30M
- Intelligent IR Compensation
- Extended IR LED's Life Cycle and the sensitivity
- HSBLC(Highlight Suppression BLC)
- Stablizer(Compensates Camera Movement)
- IR Sensitive Mechanical Day/Night Filter System Built-in
- Motion Detection
- 12VDC/24VAC Non-polarity Power Input
- IP66 Weatherproof

## Dimension

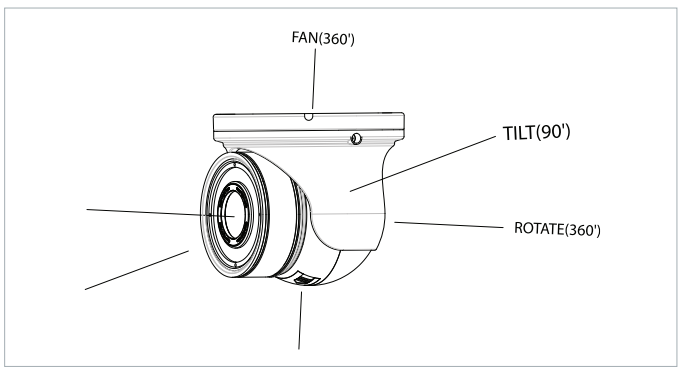



| MODEL | VDB105S-SF |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V) |
| H. Resolution | 600TV Lines(Day)/650TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>(ATW/PushLock/Manual selectable by OSD) |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC/24VAC |
| Operating current | 120mA at12VDC(IR Off), 520mA/12VDC(IR On)<br>90mA at24VAC(IR Off), 400mA/24VAC(IR On) |
| Lens | 2.8~12mm VF Auto motorized DC iris lens |
| Viewable Distance | Up to 30M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | DC IRIS |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 140(Ø) x127(L) |
| Weight (Approx.g) | 1,400 |

| Function | |
|---|---|
| WDR/BLC | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sensor-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.3 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |



# VDA110S-V12LIR

## WDR Night Vision Vandal SuperDome Camera

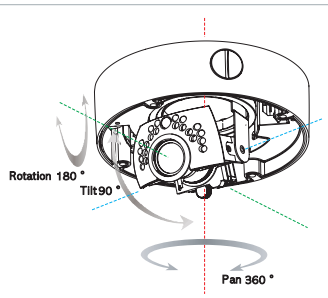



600 TVL | Smart IR | WDR | 2D + 3D | True Day/Night ICR | 3 Axis | IP 66

## Key Features

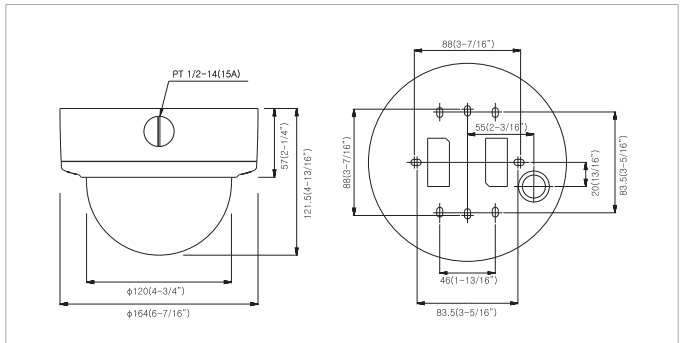
- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Intelligent IR Image Compensation
- Patented SFOCAS(Self FOcus Compensation Against Shift) technology
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- Separatable camera set for Pre-installation and camera set interchangeable
- Rotatable dome cover in IP66 weatherproof to save maintenance cost
- Extra Interchangeable Fuse for surge protection
- 3-Axis structure combined with tilt-down 90 degree surveillance
- International standard mounting arrangement
- Additional service monitoring out
- Plug & Play Heater option ranged of -40˚F~122˚F(-40˚C ~ 50˚C)
- Super Wide Dynamic(WideLux chip embedded - Ref. page11)
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- 2.8-12mm VF DC Iris lens
- Highlight Eclipse
- IR sensitive Mechanical Day/Night Filter System Built-in
- Night Sensitivity up to 30M
- Motion Detection
- DIS(Digital Image Stabilizer)
- RS-485 Interface(Pelco-D)
- IP66 Weatherproof/Vandalproof/Tamperproof
- 12VDC/24VAC Non-polarity Power Input

## Perfect 3-Axis




| MODEL | VDA110S-V12LIR |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800˚K ~ 11,000˚K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto /<br>Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC / 24VAC |
| Operating current | 200mA/12VDC(IR Off), 470mA/12VDC(IR On)<br>90mA/24VAC(IR Off), 240mA/24VAC(IR On) |
| Lens | 2.8~12mm VF Auto DC iris lens |
| Viewable Distance | Up to 30M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | DC IRIS |
| Operating temp./Humidity | -10˚C ~ 50˚C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 164(Ø)x 121.5(H) |
| Weight (Approx.g) | 2,000 |
| **Function** | |
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.3 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

## Dimension




Analog

# VDA110S-V12LDN

## WDR True Day/Night Vandal SuperDome Camera

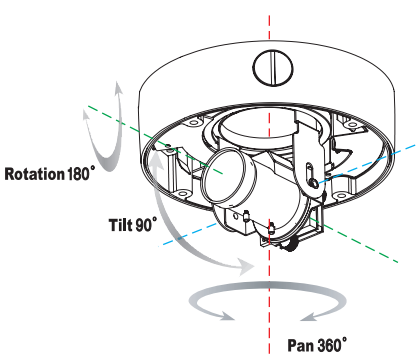



600 TVL | WDR | 2D + 3D | True Day/Night ICR | 3 Axis | IP 66

## Key Features

- Separatable camera set for Pre-installation and camera set interchangeable
- Rotatable dome cover in IP66 weatherproof to save maintenance cost
- Extra Interchangeable Fuse for surge protection
- 3-Axis structure combined with tilt-down 90 degree surveillance
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- International standard mounting arrangement
- Additional service monitoring out
- Plug & Play Heater option ranged of -40˚F~122˚F(-40˚C ~ 50˚C)
- Super Wide Dynamic(WideLux chip embedded - Ref. page11)
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- 2.8-12mm/7.5-50mm VF DC Iris lens
- Motion Detection
- IR sensitive Mechanical Day/Night Filter System Built-in
- DIS(Digital Image Stabilizer)
- Highlight Eclipse
- RS-485 Interface(Pelco-D)
- IP66 Weatherproof/Vandalproof/Tamperproof
- 12VDC/24VAC Non-polarity Power Input

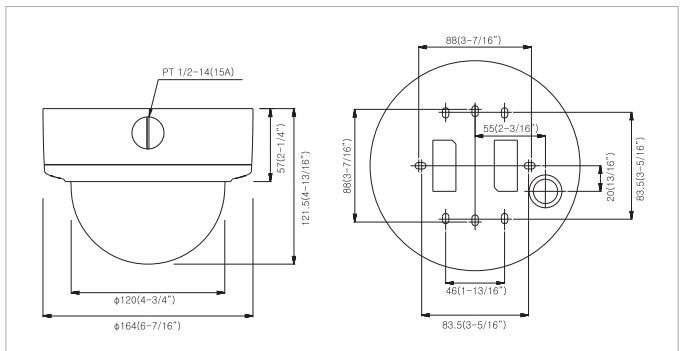
## Perfect 3-Axis




| MODEL | VDA110S-V12LDN |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.2(Sens-up Off), 0.0001Lux at F1.2 (Sens-up, x 512) |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800˚K ~ 11,000˚K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto /<br>Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC / 24VAC |
| Operating current | 200mA at 12VDC<br>90mA at 24VAC |
| Lens | 2.8~12mm Varifocal Lens |
| Iris Control | DC IRIS |
| Operating temp./Humidity | -10˚C ~ 50˚C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 164(Ø)x 121.5(H) |
| Weight (Approx.g) | 1,900 |

| Function | |
|---|---|
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.3 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

## Dimension



# VDA110EH-V12LIR

## Night Vision Vandal SuperDome Camera




650 TVL | Smart IR | ATR | 2D | True Day/Night ICR | 3 Axis | IP 66

## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- Diverse White Balance (ATW, Push, Push Lock, User 1/2, Anti Color Rolling, Manual)
- Dynamic and Static White Blemish Compensation
- Privacy Mosaic
- 30M IR Beam Distance
- 3.3-12mm Varifocal DC Auto Iris lens
- True Day & Night(ICR)
- Intelligent IR Image Compensation
- Easy-to-play OSD button on the unit
- RS-485 Interface(Pelco-D Protocol)
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish/ Portuguese/ Japanese)
- Extra Video Out
- Separatable Dome set
- Tool-free 3-Axis
- IP66 Weatherproof

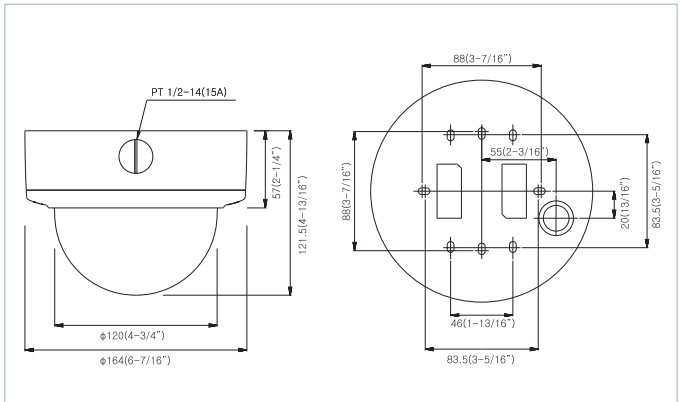
## Options

- Power source : 12VDC, 12VDC/24VAC
- Mounting : Wall mount bracket with Dome cover
  Pendent mount bracket with Dome cover
  Corner mount adaptor
  Pole mount adaptor
- Heater : VDA110EH-IRHT [-40°C ~ 50°C(-40°F ~ 122°F)]

| MODEL | VDA110EH-V12LIR |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/10,000 sec. PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto (ATW/ Push/ Push lock/ User 1/2, Anti CR, Manual) |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 200mA/12VDC(IR Off), 470mA/12VDC(IR On) 90mA/24VAC(IR Off), 240mA/24VAC(IR On) |
| Lens | 3.3-12mm Varifocal DC Auto Iris lens |
| LED Spectrum | 850nm |
| Viewable Distance | Up to 30M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH), Heater : VDA110EH-IRHT -40°C ~ 50°C(-40°F ~ 122°F) |
| IP Rating | 66 |
| Measurement (mm) | 164(D)x121.5(L) |
| Weight (Approx. g) | 2,000 |

| Function | |
|---|---|
| Shutter/ AGC | Auto/ Manual |
| White Balance | ATW / Push/ Push Lock / User 1, 2/ Anti CR/ Manual |
| Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| Privacy Mosaic | On/Off (4 Zone setting available) |
| NR | NR Mode/ Y Level/ C Level |
| Camera ID | On/ Off |
| Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/ Japanese |

## Dimension



# VDA110EH-V12LDN

## True Day/Night Vandal SuperDome Camera




650 TVL | ATR | 2D | True Day/Night ICR | 3 Axis | IP 66

## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- ATR(Adaptive Tone-Curve Reproduction)
- Diverse White Balance (ATW, Push, Push Lock, User 1/2, Anti Color Rolling, Manual)
- Highlight Compensation
- Dynamic and Static White Blemish Compensation
- Privacy Mosaic
- 3.3-12mm Varifocal DC Auto Iris lens
- Digital Day & Night
- Easy-to-Play OSD button on the unit
- RS-485 Interface(Pelco-D Protocol)
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish/ Portuguese/ Japanese)
- Extra Video Out
- Separated Dome set
- Tool-free 3-Axis
- IP66 Weatherproof

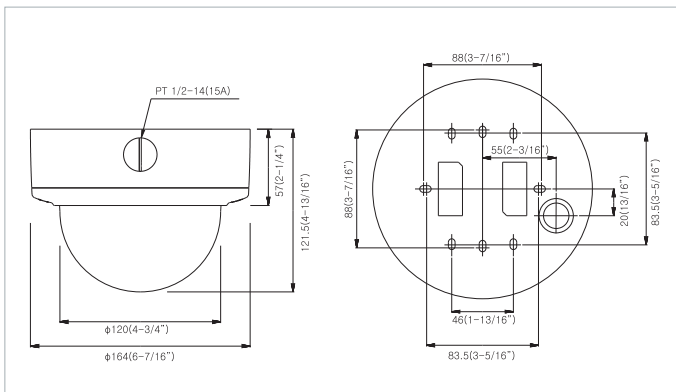
## Options

- Lens : 7.5-50mm Varifocal DC Auto Iris lens
- Power source : 12VDC, 12VDC/24VAC
- Mounting : Wall mount bracket with Dome cover
  Pendent mount bracket with Dome cover
  Corner mount adaptor
  Pole mount adaptor
- Heater : VDA110EH-DNHT [-40°C ~ 50°C(-40°F ~ 122°F)]

| MODEL | VDA110EH-V12LDN |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color)/ 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push/ Push lock/ User 1/2, Anti CR, Manual) |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 200mA/12VDC, 90mA/24VAC |
| Lens(Standard) | 3.3-12mm Varifocal DC Auto Iris lens |
| Lens(Option) | 7.5-50mm Varifocal DC Auto Iris lens |
| MTBF | 80,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH),<br>Heater : VDA110EH-HT -40°C ~ 50°C(-40°F ~ 122°F) |
| IP Rating | 66 |
| Measurement (mm) | 164(D)x121.5(L) |
| Weight (Approx. g) | 1,900 |

| Function | |
|---|---|
| Shutter/ AGC | Auto/ Manual |
| White Balance | ATW / Push / Push Lock / User 1, 2/<br>Anti CR/ Manual |
| Backlight | BLC/ HLC/ Off |
| Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| ATR | On/ Off |
| Privacy Mosaic | On/Off (4 Zone setting available) |
| NR | NR Mode/ Y Level/ C Level |
| Camera ID | On/ Off |
| Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/ Japanese |

## Dimension



# VDA100EP-V12LIR

## 650TVL WDR Night Vision Vandal Dome Camera




650 TVL | Smart IR | WDR + ATR | 2D + 3D | True Day/Night ICR | 3 Axis | IP 66

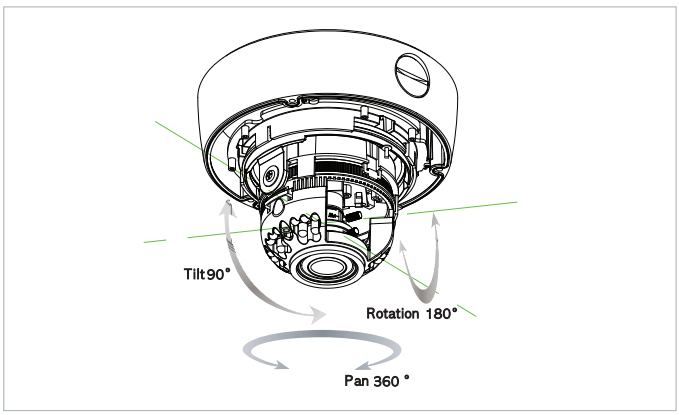
## Key Features

- 1/3" Sony 960H Double Scan Super HAD CCD II
- Super High Resolution of 650TVL at Day / 700TVL at Night
- Super WDR(WDR+ATR)
- Easy-to-use OSD Functions
- 2D/3D DNR (Digital Noise Reduction)
- 2.8~12mm DC IRIS Lens
- Motion Detection
- RS-485(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input
- Tool-free 3-Axis mechanism
- Additional service monitoring output
- Powerful Night Sensitivity
- Smart IR Compensation
- Extended IR LED's Life Cycle and the sensitivity

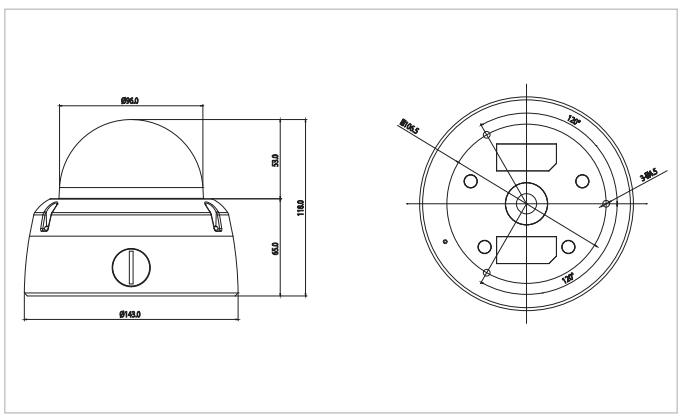
| MODEL | VDA100EP-V12LIR |
|---|---|
| Image sensor | 1/3" Double Scan Super HAD CCD II (960H) |
| Effective Pixels | NTSC : 976(H) x 494(V)<br>PAL : 976(H) x 582(V) |
| H. Resolution | over 650 TV Lines(Day) / 700 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>ATW/PUSH/USER<br>HOLD selectable by OSD |
| Gain Control | OFF/12dB/18dB/24dB/30dB/36dB/42dB/<br>48dB/54dB/60dB |
| Smear Effect | 0.005% |
| Power source | 12VDC, 24VAC |
| Operating current | 210mA at12VDC(IR OFF) / 640mA at12VDC(IR ON)<br>120mA at 24VAC(IR OFF) / 260mA at24VAC(IR ON) |
| Lens | 2.8~12mm Varifocal DC Iris lens |
| Viewable Distance | UP to 30M at Moonless Night |
| MTBF OF IR | 20,000 hours |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 143(Ø) x 118(H) |
| Weight (Approx.g) | 850 |

| Function | |
|---|---|
| WDR | Off/Auto1/Auto2(User select able by OSD) |
| White balance | ATW/PUSH/USER/HOLD User selectable |
| Gain Control | Off/12dB/18dB/24dB/30dB/36dB/42dB/<br>48dB/54dB/60dB |
| DNR | 2D/3D DNR |
| Digital Slow Shutter | Off/2x ~ 512x (DSS) |
| Motion Detection | On/Off (4 Zones) |
| Privacy Mosaic | On/Off (4 Zones) |
| Digital Image Stabilizer | On/Off |
| Digital Zoom | Off/1.5x,2x,3x,4x Digital Pan/Tilt) |

## Perfect 3-Axis




## Dimension



Analog

# VDA100EP-V12L

## 650TVL WDR Day/Night Vandal Dome Camera




650 TVL | WDR + ATR | 2D + 3D | 3 Axis | IP 66

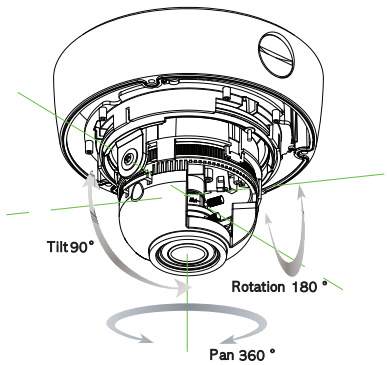
## Key Features

- 1/3" Sony 960H Double Scan Super HAD CCD II
- Super High Resolution of 650TVL at Day / 700TVL at Night
- Super WDR(WDR+ATR)
- Easy-to-use OSD Functions
- 2D/3D DNR (Digital Noise Reduction)
- 2.8~12mm DC IRIS Lens
- Motion Detection
- RS-485(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input
- Tool-free 3-Axis mechanism
- Additional service monitoring output
- Powerful Night Sensitivity

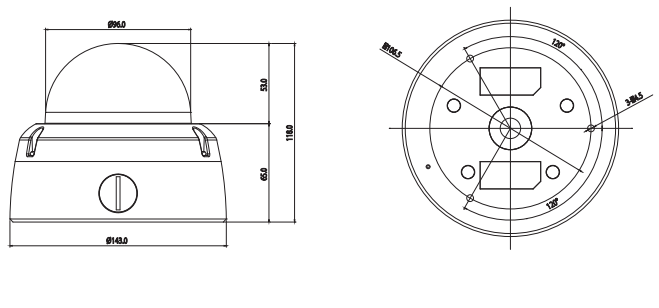
| MODEL | VDA100EP-V12L |
|---|---|
| Image sensor | 1/3" Double Scan Super HAD CCD II (960H) |
| Effective Pixels | NTSC : 976(H) x 494(V)<br>PAL : 976(H) x 582(V) |
| H. Resolution | over 650 TV Lines(Day) / 700 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0.00001Lux(DSS), 0.05Lux(DSS Off) at F1.2 |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto ATW/PUSH/USER<br>HOLD selectable by OSD |
| Gain Control | OFF/12dB/18dB/24dB/30dB/36dB/42dB/<br>48dB/54dB/60dB |
| Smear Effect | 0.005% |
| Power source | 12VDC, 24VAC |
| Operating current | 210mA at12VDC<br>120mA at 24VAC |
| Lens | 2.8~12mm Varifocal DC Iris lens |
| MTBF OF IR | 20,000 hours |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 143(Ø) x 118(H) |
| Weight (Approx.g) | 830 |

| Function | |
|---|---|
| WDR | Off/Auto1/Auto2(User select able by OSD) |
| White balance | ATW/PUSH/USER/HOLD |
| Gain Control | Off/12dB/18dB/24dB/30dB/36dB/42dB/<br>48dB/54dB/60dB |
| DNR | 2D/3D DNR |
| Digital Slow Shutter | Off/2x ~ 512x (DSS) |
| Motion Detection | On/Off (4 Zones) |
| Privacy Mosaic | On/Off (4 Zones) |
| Digital Image Stabilizer | On/Off |
| Digital Zoom | Off/1.5x,2x,3x,4x Digital Pan/Tilt) |

## Perfect 3-Axis




## Dimension



# VDA100EH-V12LIR

## 650TVL Night Vision Vandal Dome Camera




650 TVL | Smart IR | ATR | 2D | True Day/Night ICR | 3 Axis | IP 66

### Special Features

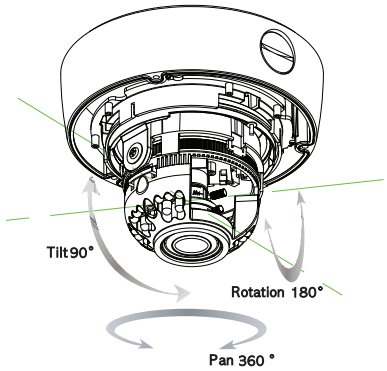
- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Rotatable dome cover after installation to save maintenance cost
- Additional service monitoring out
- Tool-free 3-Axis

### Key Features

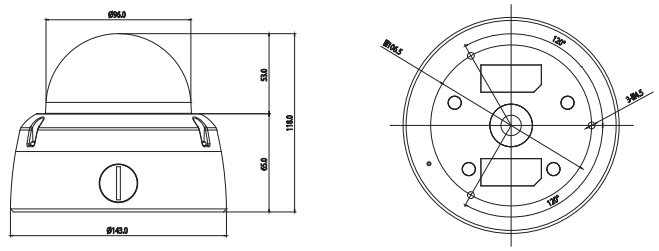
- 1/3" Sony EXview HAD CCD II (960H)
- High Resolution of 650TVL at Day / 700TVL at Night
- 2DNR (2D Noise Reduction)
- ATR (Adaptive Tone Reproduction)
- 2.8~12mm VF DC IRIS Lens
- Easy-to-use OSD Functions
- RS-485 Interface(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input

| MODEL | | VDA100EH-V12LIR |
|---|---|---|
| CCD | Image sensor | 1/3" SONY 960H EX-VIEW HAD CCD Ⅱ (SONY) |
| | Total Pixel | NTSC: 1020(H)X508(V)=520K Pixels<br>PAL:1020(H)X596(V)=610K Pixels |
| | Effective Pixels | NTSC:976(H)X494(V)<br>PAL:976(H)X582(V) |
| Electrical | Scanning system | NTSC 525 Lines<br>PAL 625 Lines 2:1 Interlaced |
| | Synchronization | Internal |
| | H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| | Video output | 1.0Vp-p Composite 75 Ohms |
| | S/N ratio | More than 52dB (AGC Off) |
| | Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push/ Push/ User 1/2, Anti CR, Manual) |
| | Gain Control | Standard : -6dB ~ 44.8dB Auto |
| | Smear Effect | 0.01% |
| | Viewable Distance | UP to 30M at Moonless Night |
| | MTBF | 20,000 hours |
| | Iris Control | Auto |
| | Operating temp./ Humidity | -10℃ ~ 50℃<br>(Humidity : 0% RH ~ 90% RH) |
| | Measurement (mm) | 143(Ø) x 118(H) |
| | Weight (Approx. g) | 850g |
| FUNCTION | Shutter/ AGC | Auto/ Manual |
| | White Balance | ATW /Push/ Push Lock / User 1, 2/ Anti CR/ Manual |
| | Backlight | BLC/ HLC/ Off |
| | Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| | ATR | On/ Off |
| | Privacy Mosaic | On/Off (4 Zone setting available) |
| | Day/Night | Auto/ Color/ BW(IR Optimizer) |
| | NR | NR Mode/ Y Level/ C Level |
| | Camera ID | On/ Off |
| | Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/ Japanese |

### Perfect 3-Axis




### Dimension



Analog

# VDA100EH-V12LDN

## 650TVL True Day/Night Vandal Dome Camera




650 TVL | ATR | 2D | 3 Axis | IP 66

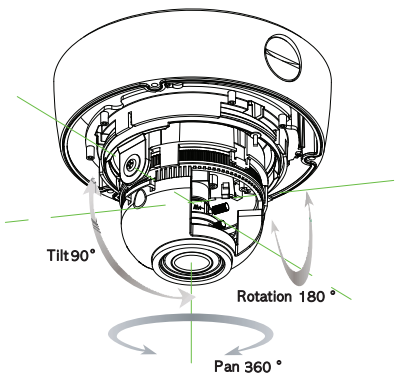
### Special Features

- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Rotatable dome cover after installation to save maintenance cost
- 4 directional cable out inclusion guarantees concrete wall, ceiling, slope installation
- Additional service monitoring out
- Tool-free 3-Axis

### Key Features

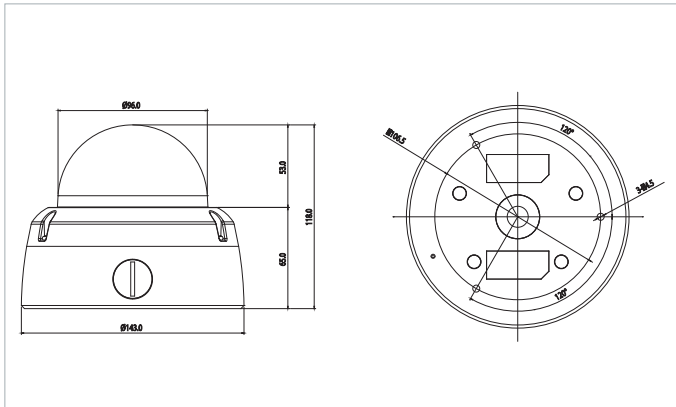
- 1/3" Sony EXview HAD CCD II (960H)
- High Resolution of 650TVL at Day / 700TVL at Night
- 2DNR (2D Noise Reduction)
- ATR (Adaptive Tone Reproduction)
- 2.8~12mm VF DC IRIS Lens
- Easy-to-use OSD Functions
- RS-485 Interface(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input

### Perfect 3-Axis




| MODEL | | VDA100EH-V12LDN |
|---|---|---|
| CCD | Image sensor | 1/3" SONY 960H EX-VIEW HAD CCD II (SONY) |
| | Total Pixel | NTSC:1020(H)X508(V)=520K Pixels<br>PAL:1020(H)X596(V)=610K Pixels |
| | Effective Pixels | NTSC:976(H)X494(V)<br>PAL:976(H)X582(V) |
| Electrical | Scanning system | NTSC 525 Lines<br>PAL 625 Lines 2:1 Interlaced |
| | Synchronization | Internal |
| | H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| | Video output | 1.0Vp-p Composite 75 Ohms |
| | S/N ratio | More than 52dB (AGC Off) |
| | Min.Illumination | 0.1Lux at F1.2 |
| | Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard γ = 0.45 |
| | White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push/ Push/ User 1/2, Anti CR, Manual) |
| | Gain Control | Standard : -6dB ~ 44.8dB Auto |
| | Smear Effect | 0.01% |
| | MTBF | 20,000 hours |
| | Iris Control | Auto |
| | Operating temp./ Humidity | -10℃ ~ 50℃<br>(Humidity : 0% RH ~ 90% RH) |
| | Measurement (mm) | 143(Ø) x 118(H) |
| | Weight (Approx. g) | 830g |
| FUNCTION | Shutter/ AGC | Auto/ Manual |
| | White Balance | ATW /Push/ Push Lock / User 1, 2/<br>Anti CR/ Manual |
| | Backlight | BLC/ HLC/ Off |
| | Picture Adjust | Mirror(On/Off), Brightness, Contrast,<br>Sharpness, HUE, Gain |
| | ATR | On/ Off |
| | Privacy Mosaic | On/Off (4 Zone setting available) |
| | Day/Night | Auto/ Color/ BW(IR Optimizer) |
| | NR | NR Mode/ Y Level/ C Level |
| | Camera ID | On/ Off |
| | Language | English/ Germany/ French/ Russian/ Spanish/<br>Portuguese/ Japanese |

### Dimension



# VDA140S-V12IR

## WDR Night Vision Magnetic Dome Camera




600 TVL | Smart IR | WDR | 2D + 3D | True Day/Night ICR | 3 Axis | IP 66

## Special Features

- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Intelligent IR Image Compensation
- Patented SFOCAS(Self FOcus Compensation Against Shift) technology
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- Easy Installation with all directional Magnetic Mount and tilt-down 90 degree surveillance
- Surface/Flush mount compatible
- Additional service monitoring out
- International standard mounting arrangement

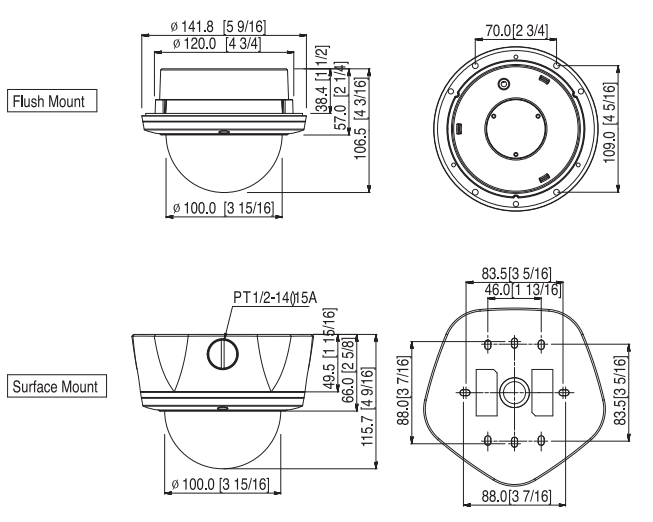
## General Features

- Super Wide Dynamic(WideLux chip embedded – Ref. page11)
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- 3.3-12mm VF DC Iris lens
- True Day & Night(ICR)
- Night Sensitivity up to 20M
- Motion Detection
- Highlight Eclipse
- DIS(Digital Image Stabilizer)
- RS-485 Interface(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input
- IP66 Weatherproof/Vandalproof/Tamperproof

| MODEL | VDA140S-V12IR |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines<br>PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC / 24VAC |
| Operating current | 200mA /12VDC(IR Off), 400mA/12VDC(IR On)<br>90mA /24VAC(IR Off), 190mA/24VAC(IR On) |
| Lens | 3.3~12mm Varifocal Lens |
| Viewable Distance | Up to 20M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | DC IRIS |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 150(D) x 115.7(H) |
| Weight (Approx.g) | 2,000 |

| Function | |
|---|---|
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.30 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

## Dimension



# VDA140EH-V12IR

## Night Vision Magnetic Dome Camera




650 TVL | Smart IR | ATR | 2D | True Day/Night ICR | 3 Axis | IP 66

## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- Diverse White Balance (ATW, Push, Push Lock, User 1/2, Anti Color Rolling, Manual)
- Dynamic and Static White Blemish Compensation
- Privacy Mosaic
- Magnetic mount
- 20M IR Beam Distance
- 3.3-12mm Varifocal DC Auto Iris lens
- True Day & Night(ICR)
- Intelligent IR Image Compensation
- RS-485 Interface(Pelco-D Protocol)
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish/ Portuguese/ Japanese)
- Surface/ Flush mount compatible
- Tool-free 3-Axis(All directional mount)
- IP66 Weatherproof
- 12VDC/24VAC

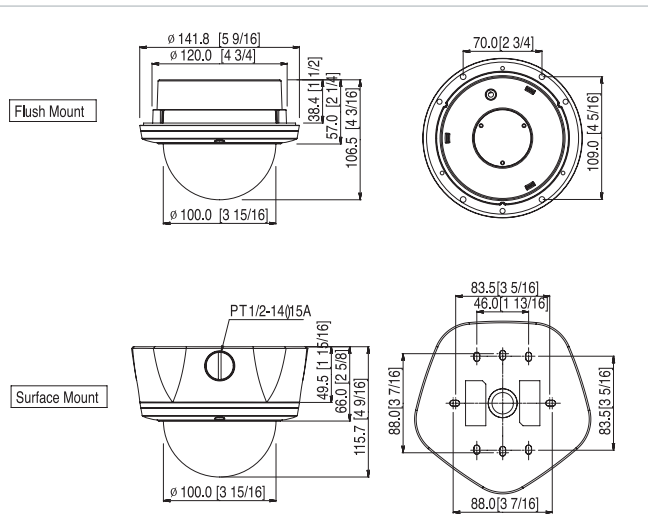
## Options

- Mounting : Wall mount bracket with Dome cover
  Pendent mount bracket with Dome cover
  Corner mount adaptor
  Pole mount adaptor
- OSD Control Key with battery

| MODEL | VDA140EH-V12IR |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push /Push lock / User 1/2, Anti CR, Manual) |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC/24VAC |
| Operating current | 150mA/12VDC(IR Off), 400mA/12VDC(IR On)<br>85mA/24VAC(IR Off), 180mA/24VAC(IR On) |
| Lens | 3.3-12mm Varifocal DC Auto Iris lens |
| LED Spectrum | 850nm |
| Viewable Distance | Up to 20M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| IP Rating | 66 |
| Measurement (mm) | 150(D)x115.7(L) |
| Weight (Approx. g) | 2,000 |

| Function | |
|---|---|
| Shutter/ AGC | Auto/ Manual |
| White Balance | ATW / Push / Push Lock / User 1, 2/<br>Anti CR/ Manual |
| Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| Privacy Mosaic | On/Off (4 Zone setting available) |
| NR | NR Mode/ Y Level/ C Level |
| Camera ID | On/ Off |
| Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/ Japanese |

## Dimension



# VDA111S-V12DN

## WDR Ultra Slim Vandal Dome Camera



600 TVL | WDR | 2D + 3D | True Day/Night ICR | 3 Axis | IP 66

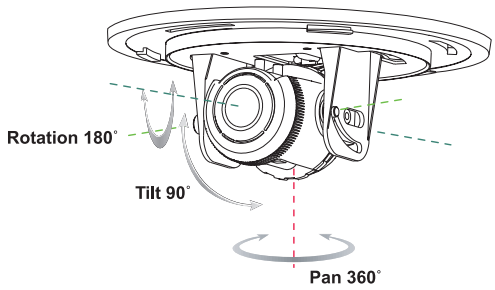
## Special Features

- Ultra Slim Design with IP66 Weatherproof gets perfect Tool-free 3-Axis mount
- Rotatable dome cover after installation to save maintenance cost
- Additional service monitoring out
- 3-Axis structure combined with tilt-down 90 degree surveillance
- Optional mounting adaptor with 4 directional cable out guarantees concrete wall, ceiling, slope installation
- Rugged Design

## General Features

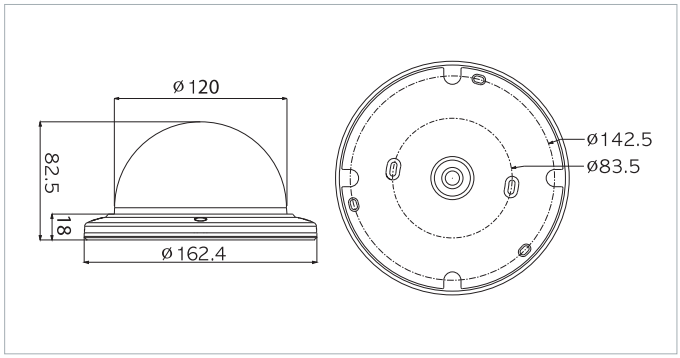
- Super Wide Dynamic(WideLux chip embedded – Ref. page11)
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- 3.3-12mm VF DC Iris lens
- True Day & Night(ICR)
- Motion Detection
- DIS(Digital Image Stabilizer)
- Highlight Eclipse
- RS-485 Interface(Pelco-D)
- IP66 Weatherproof/Vandalproof/Tamperproof
- 12VDC/24VAC Non-polarity Power Input

## Perfect 3-Axis




| MODEL | VDA111S-V12DN |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.2(Sens-up Off), 0.0001Lux at F1.2(Sens-up x 512) |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard γ = 0.45 |
| White Balance | 1,800˚K ~ 11,000˚K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC / 24VAC |
| Operating current | 200mA at 12VDC<br>90mA at 24VAC |
| Lens | 3.3~12mm Varifocal Lens |
| Iris Control | DC IRIS |
| Operating temp./Humidity | -10˚C ~ 50˚C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 162.4(Ø) x 82.5(H) |
| Weight (Approx.g) | 1,300 |
| **Function** | |
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.30 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

## Dimension



# VDA111EH-V12DN

## 650TVL Ultra Slim Vandal Dome Camera

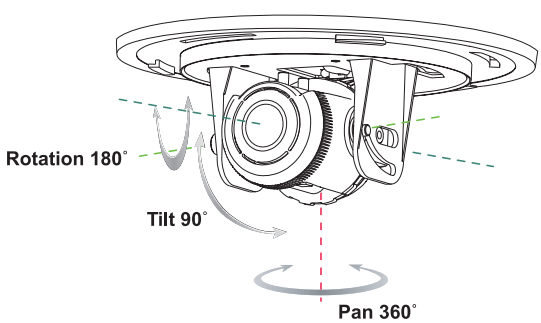


650 TVL | ATR | 2D | True Day/Night ICR | 3 Axis | IP 66

## Key Features

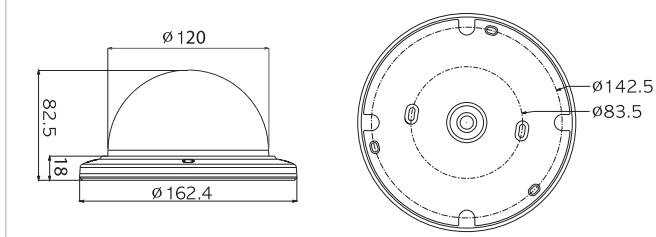
- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- ATR(Adaptive Tone-Curve Reproduction)
- Diverse White Balance (ATW, Push, Push Lock, User 1/2, Anti Color Rolling, Manual)
- Highlight Compensation
- Dynamic and Static White Blemish Compensation
- Privacy Mosaic
- 3.3-12mm Varifocal DC Auto Iris lens
- Easy-to-play OSD button on the unit
- RS-485 Interface(Pelco-D Protocol)
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish/ Portuguese/ Japanese)
- Extra Video Out
- Tool-free 3-Axis
- IP66 Weatherproof
- 12VDC/ 24VAC

## Perfect 3-Axis




| MODEL | VDA111EH-V12DN |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color)/ 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW, Push, Push lock, User1/2, Anti CR, Manual) |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 150mA/12VDC, 85mA/24VAC |
| Lens | 3.3-12mm Varifocal DC Auto Iris lens |
| MTBF | 80,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| IP Rating | 66 |
| Measurement (mm) | 162.4(D)x82.5(L) |
| Weight (Approx. g) | 1,300 |
| **Function** | |
| Shutter/ AGC | Auto/ Manual |
| White Balance | ATW / Push / Push Lock / User 1, 2/<br>Anti CR/ Manual |
| Backlight | BLC/ HLC/ Off |
| Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| ATR | On/ Off |
| Privacy Mosaic | On/Off (4 Zone setting available) |
| Day/Night | Auto/ Color/ BW |
| NR | NR Mode/ Y Level/ C Level |
| Camera ID | On/ Off |
| Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/ Japanese |

## Dimension



# VDA111D88-V12DN

## Pixim Seawolf WDR Ultra Slim Vandal Dome Camera




WDR | 2D + 3D | 3 Axis | IP 66

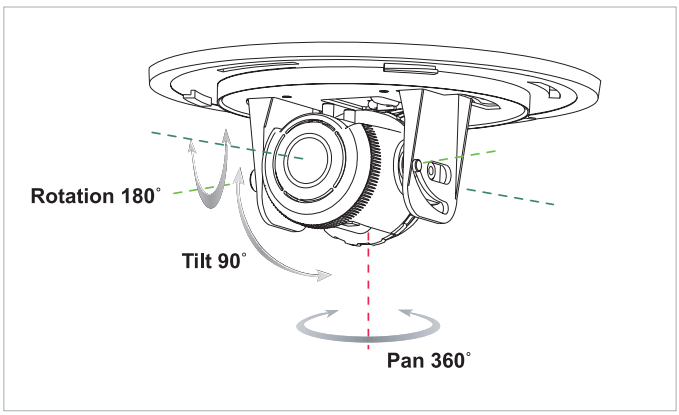
### Special features

- Ultra Slim Design gets perfect Tool-free 3-Axis mount
- Additional service monitoring out
- 3-Axis structure combined with tilt-down 90 degree surveillance
- Optional mounting adaptor with 4 directional cable out guarantees concrete wall, ceiling, slope installation

### General features

- Pixim WDR Digital image device
- 690HTVL effective
- 3.3-12mm VF DC Iris lens
- Enhanced low light performance up to 0.003 Lux(DSS On)
- True Day & Night(ICR)
- Privacy masking
- RS-485 Interface(Pelco-D)

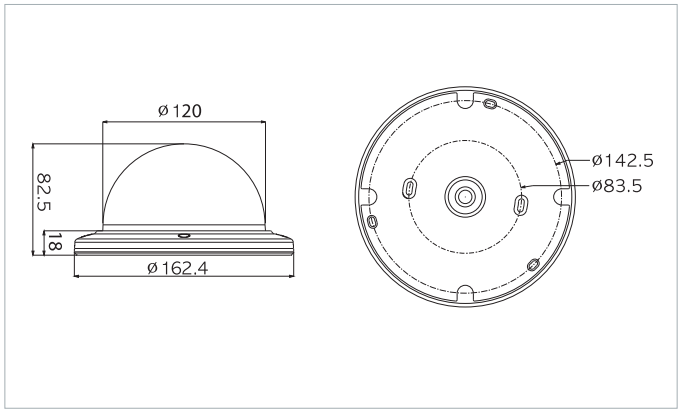
### Perfect 3-Axis




| MODEL | VDA111D88-V12DN |
|---|---|
| Image sensor | 1/3" WDR digital imaging device |
| Dynamic range | 102dB typical / 120dB max |
| Video capture | Progressive Scan 50fps / 60fps |
| Transfer format | PsF (Pogressive with Segmented Frames) |
| Effective Pixels | 758(H) x 540(V) pixel |
| H.Resolution | 690HTVL effective |
| Sync system | Internal |
| Video output | 1.0 to 1.2 Vp-p composite 75ohms (NTSC / PAL Compatible) |
| S/N ratio | More than 50dB (AGC Off) |
| Min. illumination | 0.1Lux at F1.4(DSS Off), 0.003Lux at F1.4(DSS On) |
| Operating current | 250mA at 12VDC, 110mA at 24VAC |
| Lens | 3.3~12mm VF DC Iris lens |
| Operating Temperature | 14˚F ~ 122˚F (-10˚C ~ +50˚C) |
| Humidity | Within 90% RH |
| Output Tenminal | BNC-Video, 2P(T-Block-PWR), 2P(L/ W-RS485) |
| Power source | 12VDC / 24VAC |
| Measurement | 162.4(Ø)X 82.5(H) |
| Weight (Approx.g) | 1,300 |

| OSD Menu | |
|---|---|
| WDR | Low / Middle / High / User(0 ~ 36) |
| White Balance | ATW / AWC Manual selectable 2,000˚K ~ 11,000˚K Auto |
| Gain Control | Off, Low, Middle, High |
| Gamma correction | γ 0.25 ~ γ 1 (25 ~ 100) |
| Back Light Compensation | Off / On |
| ACG | 26dB / 30dB / 34dB / 40dB / 46dB / 51dB / 55dB |
| Digital s low shutter | Off / 2x / 4x / 6x / 8x / 16x / 32x |
| Privacy Masking | On / Off (6 Programmable zones) |
| Reversal | NORMAL / H-REV / V-REV / FLIP |
| Day / Night | Auto / Color / BW |
| Protocol | Pelco-D |

### Dimension




Analog

# VD70EH-36IR

## 650TVL IR Dome Camera



650 TVL | Smart IR | ATR | 2D | 3 Axis | IP 66

| MODEL | VD70EH-36IR |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 100mA(IR Off), 240mA(IR On) |
| Lens(Standard) | 3.6mm Fixed Iris lens |
| Lens(Option) | 2.9mm/ 4.3mm/6mm/ 8mm Fixed Iris lens |
| LED Spectrum | 850nm(5Ø x 14ea) |
| Viewable Distance | Up to 15M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Electronic |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| IP Rating | 66 |
| Measurement (mm) | 94(D)x75.5(L) |
| Weight (Approx. g) | 650 |

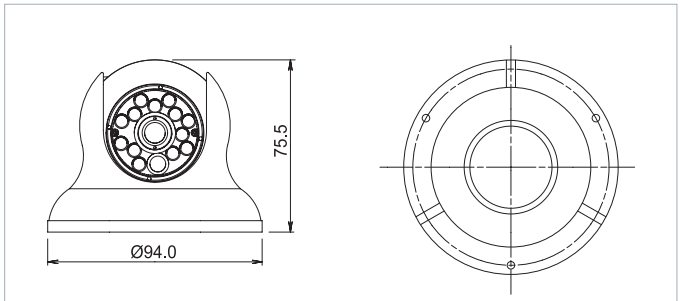
## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- 15M IR Beam Distance
- 3.6mm Fixed Iris lens
- CDS Day & Night
- Intelligent IR Image Compensation
- 3-Axis(All directional mount)
- IP66 Weatherproof
- 12VDC

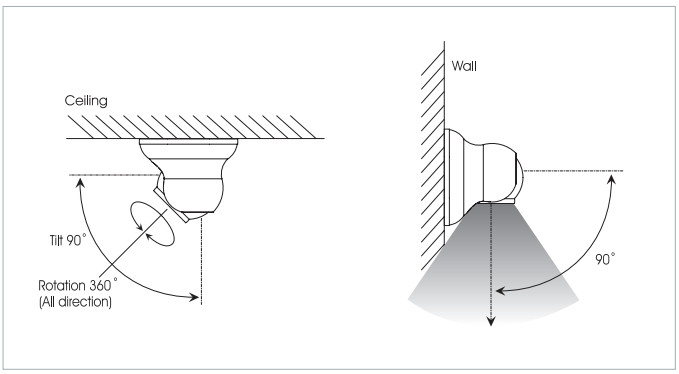
## Options

- Lens option : 2.9mm/ 4.3mm/ 6mm/ 8mm Fixed Iris lens

## Dimension




## Perfect 3-Axis



# VD70D88-S/F

## Pixim Seawolf WDR Mini Armor Dome Camera



VD70D88-S29W



VD70D88-S29B(Wall mount)



VD70D88-F29S



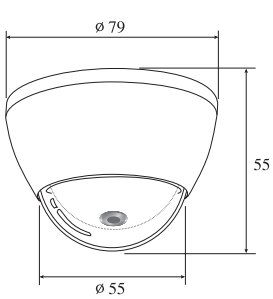
VD70D88-F29B

WDR | 2D + 3D | 3 Axis | IP 66

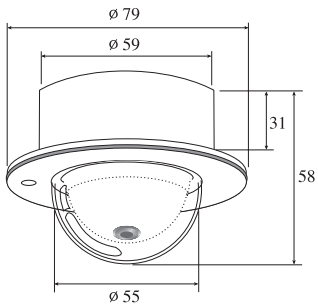
## Key Features

- 1/3" Pixim WDR Digital Imaging Device
- High Resolution of 690HTVL effective
- 2DNR (2D Noise Reduction)
- 3DNR (3D Motion Adaptive Noise Reduction)
- Dynamic Range 120dB Maximum
- Digital Zoom 8X (Pan, Tilt)
- Digital Slow Shutter(DSS 32x max)
- Privacy masking(6 zones)
- RS-485(Pelco-D)
- 12VDC

## Dimension




Surface Mount




Flush Mount

| MODEL | VD70D88-S/F |
|---|---|
| Image sensor | 1/3" WDR digital imaging device |
| Dynamic Range | 102dB typical / 120dB max. |
| Video capture | Progressive Scan 50fps / 60fps |
| Transfer format | PsF (Progressive with Segmented Frames) |
| Total Pixels | 768(H) x 548(V) pixel |
| Effective Pixels | 758(H) x 540(V) pixel |
| H.Resolution | 690HTVL effective |
| Synchronizing system | Internal |
| Video output | 1.0 to 1.2 Vp-p Composite 75 Ohms (NTSC/PAL Compatible) |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.4(DSS Off), 0.003Lux at F1.4(DSS On) |
| Electronic Shutter Speed | 1/25 - 1/30,720 second (F1.4) |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| AGC | Programable up to 55dB |
| Power source | 12VDC |
| Operating current | 160mA(Max) |
| Lens | Fixed Iris Lens |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ +50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | Surface Mount:79(D)x55(L)<br>Flush Mount:79(D)x58(L) |
| Weight (Approx.g) | 390 |

| Function | |
|---|---|
| WDR | Low / Middle / High / User(0 ~ 36) |
| White Balance | ATW / AWC / Manual selectable<br>2,000°K ~ 11,000°K Auto |
| Gamma Correction | $\gamma$ 0.25 ~ $\gamma$ 1 (25 ~ 100) |
| Back Light Compensation | Off / On |
| AGC | 26dB / 30dB / 34dB / 40dB / 46dB / 51dB / 55dB |
| 2DNR | Off / On (User selectable by OSD) |
| Digital Slow Shutter | Off / 2x ~ 32x (DSS) |
| Digital PTZ | Off, X1 ~ X8(Pan, Tilt) |
| Day / Night | Auto / Color / BW (Burst On/Off) |
| Reversal | NORMAL / H-REV / V-REV / FLIP |
| Privacy Mask | Off / On (6Zone setting available) |
| Protocol | Pelco-D (2400 / 4800 / 9600 / 19200) |

# VD70EH-S/F

## 650TVL Mini Armor Dome Camera



VD70EH-S29W



VD70EH-S29B(Wall mount)



VD70EH-F29S



VD70EH-F29B

650 TVL | ATR | 2D | 3 Axis | IP 66

| MODEL | VD70EH-S/F |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color), 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 110mA |
| Lens(Standard) | 3.6mm Fixed Iris lens |
| Lens(Option) | 2.45mm/ 2.9mm/ 4.3mm/6mm Fixed Iris lens |
| MTBF | 80,000 hours |
| Iris Control | Electronic |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| IP Rating | 66 |
| Measurement (mm) | Surface mount : 79(D)x55(L)<br>Flush mount : 79(D)x58(L) |
| Weight (Approx. g) | 390 |

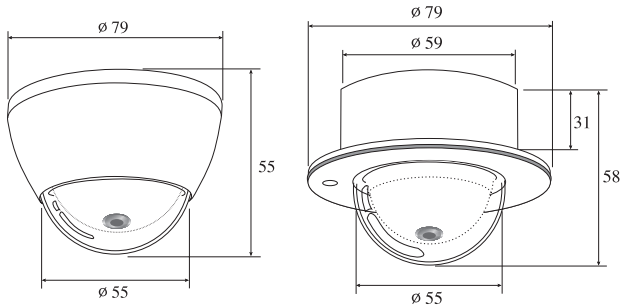
## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- 3.6mm Fixed Iris lens
- Digital Day & Night
- Tool-free 3-Axis(All directional mount)
- IP66 Weatherproof
- 12VDC

## Options

- Lens option : 2.45mm/ 2.9mm/ 4.3mm/ 6mm Fixed Iris lens
- Eye ball mounting : Tilt-down up to 90 deg.

## Dimension



# VDA30EH-B36

## 650TVL Mini Armor Dome Camera







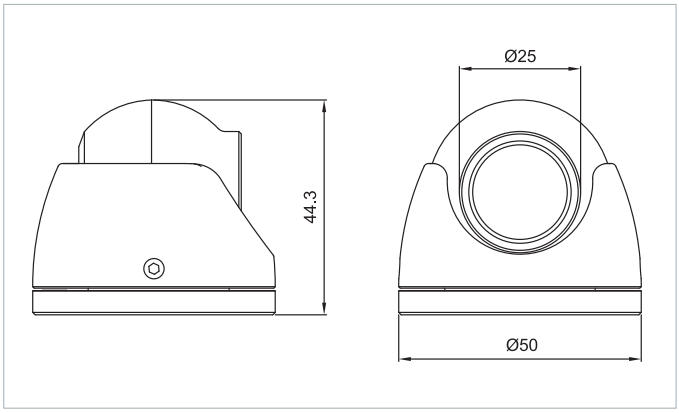
650 TVL | ATR | 2D | 3 Axis | IP 66

| MODEL | VDA30EH-B36 |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color), 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.01% |
| Power source | 12VDC (7-18V available) |
| Operating current | 80mA |
| Lens(Standard) | 3.6mm Fixed Iris lens |
| MTBF | 80,000 hours |
| Iris Control | Electronic |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0% RH ~ 90% RH) |
| Storage Temperature | -15~60℃ |
| IP Rating | IP 66 |
| Measurement (mm) | Ø50 X 44mm (H) |
| Weight (Approx. g) | 150 |

## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- 3.6mm Fixed lens (92 degree AOV/Diagonal)
- Digital Day & Night
- 3-Axis (All directional mount)
- IP67 Weatherproof
- DC7V~18V Power Input

## Dimension



# VDA30EH-B37IR

## 650TVL Night Vision Mini Armor Dome Camera



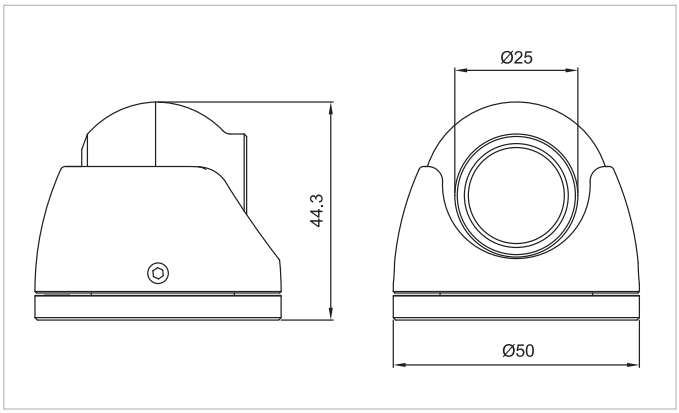
650 TVL | Smart IR | ATR | 2D | 3 Axis | IP 66

### Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- 3.7mm Pinhole lens (90 degree AOV/Diagonal)
- CDS Day & Night
- Smart IR Image Compensation
- 10M IR Beam Distance
- 3-Axis (All directional mount)
- IP67 Weatherproof
- DC12V Power Input

| MODEL | VDA30EH-B37IR |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| IR Beam distance | 10M |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.01% |
| Power source | 12VDC |
| Operating current | 100mA(IR Off), 170mA(IR On) |
| Lens(Standard) | 3.7mm Pinhole lens |
| MTBF | 20,000 hours |
| Iris Control | Electronic |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0% RH ~ 90% RH) |
| Storage Temperature | -15~60℃ |
| IP Rating | IP 66 |
| Measurement (mm) | Ø50 X 44mm (H) |
| Weight (Approx. g) | 150 |

### Dimension



# VD102HB-V12IR

## Med-Res Night Vision Indoor Dome Camera




2D | Smart IR | 3 Axis

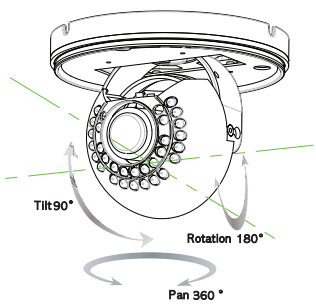
### Special Features

- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Rotatable dome cover after installation to save maintenance cost
- Additional service monitoring out
- 3-Axis

### Key Features

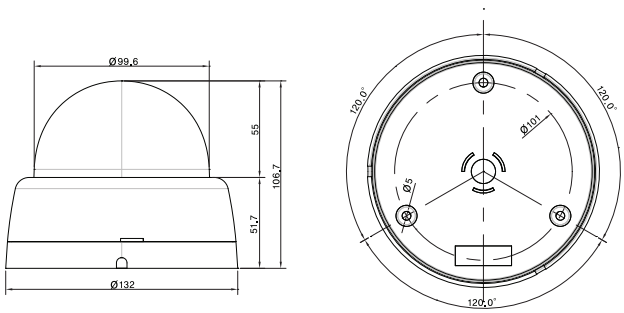
- 1/3" Sony Super HAD CCD
- High Resolution of 400TVL at Day / 420TVL at Night
- 2DNR (2D Noise Reduction)
- Digital WDR
- 2.8~12mm VF DC IRIS Lens
- Easy-to-use OSD Functions
- 12VDC

### Perfect 3-Axis




| MODEL | VD102HB-V12IR |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD |
| Effective Pixels | NTSC : 510(H) x 492(V)<br>PAL : 500(H) x 582(V) |
| H. Resolution | NTSC : 400 TV Lines(Day)/420 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626<br>Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 2,300°K ~ 10,500°K Auto<br>ATW1/ATW2/AWC->SET/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 70mA at 12VDC(IR Off) 310mA at 12 VDC(IR On) |
| Lens(Standard) | 2.8~12mm Varifocal DC Iris Lens |
| Viewable Distance | Up to 30M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 132(Ø) x 106.7(H) |
| Weight (Approx.g) | 350g |
| **Function** | |
| D-WDR/BLC | Off / On (User selectable by OSD) |
| 2DNR | Off / On (User selectable by OSD) |
| Privacy Mask | Off / On (8 Zone setting available) |
| Motion Detection | On/Off (4 Zone setting available) |
| Image ADJ. | Lens SHAD/Mirror/Sharpness/Contrast |
| Language | English |

### Dimension




Analog

# VD102HBH-V12IR

## Hi-Res Night Vision Indoor Dome Camera




600 TVL | Smart IR | 2D | 3 Axis

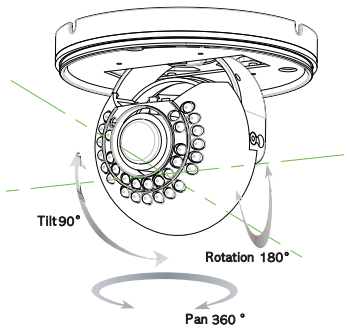
## Special Features

- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Rotatable dome cover after installation to save maintenance cost
- Additional service monitoring out
- 3-Axis

## Key Features

- 1/3" Sony Super HAD CCD II
- High Resolution of 600TVL at Day / 650TVL at Night
- 2DNR (2D Noise Reduction)
- Digital WDR
- 2.8~12mm VF DC IRIS Lens
- Easy-to-use OSD Functions
- 12VDC

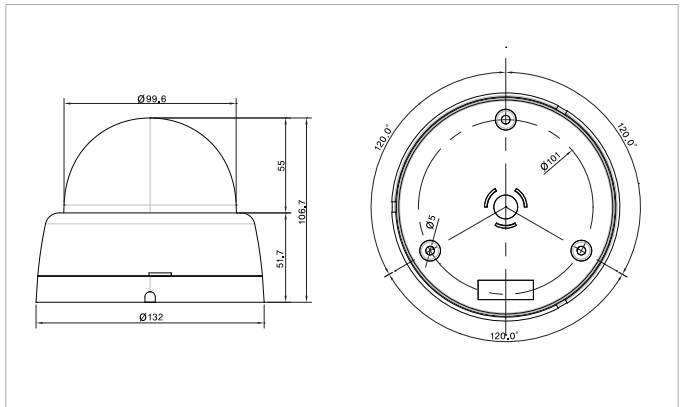
## Perfect 3-Axis




| MODEL | VD102HBH-V12IR |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | NTSC : 600 TV Lines(Day)/650 TV Lines(Night)<br>PAL : 590 TV Lines(Day)/640 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 2,300°K ~ 10,500°K Auto<br>ATW1/ATW2/AWC->SET/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 70mA at 12VDC(IR Off) 310mA at 12 VDC(IR On) |
| Lens(Standard) | 2.8~12mm Varifocal DC Iris Lens |
| Viewable Distance | Up to 30M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 132(Ø) x 106.7(H) |
| Weight (Approx.g) | 350g |

| Function | |
|---|---|
| D-WDR/BLC | Off / On (User selectable by OSD) |
| 2DNR | Off / On (User selectable by OSD) |
| Privacy Mask | Off / On (8 Zone setting available) |
| Motion Detection | On/Off (4 Zone setting available) |
| Image ADJ. | Lens SHAD/Mirror/Sharpness/Contrast |
| Language | English |

## Dimension



# VD102HB-V12

## Med-Res Indoor Dome Camera




2D 3 Axis

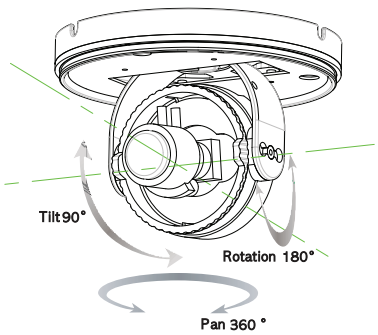
## Special Features

- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Rotatable dome cover after installation to save maintenance cost
- Additional service monitoring out
- 3-Axis

## Key Features

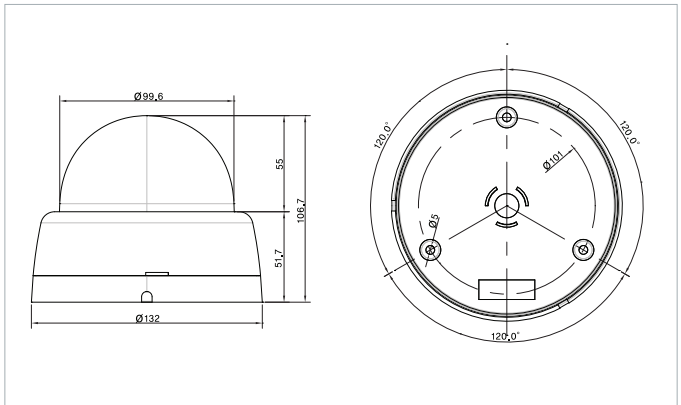
- 1/3" Sony Super HAD CCD
- High Resolution of 400TVL at Day / 420TVL at Night
- 2DNR (2D Noise Reduction)
- Digital WDR
- 2.8~12mm VF DC IRIS Lens
- Easy-to-use OSD Functions
- 12VDC

## Perfect 3-Axis




| MODEL | VD102HB-V12 |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD |
| Effective Pixels | NTSC : 510(H) x 492(V)<br>PAL : 500(H) x 582(V) |
| H. Resolution | NTSC : 400 TV Lines(Day)/420 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 2,300°K ~ 10,500°K Auto<br>ATW1/ATW2/AWC->SET/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 70mA at 12VDC |
| Lens(Standard) | 2.8~12mm Varifocal DC Iris Lens |
| MTBF | 80,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 132(Ø) x 106.7(H) |
| Weight (Approx.g) | 300g |
| **Function** | |
| D-WDR/BLC | Off / On (User selectable by OSD) |
| 2DNR | Off / On (User selectable by OSD) |
| Privacy Mask | Off / On (8 Zone setting available) |
| Motion Detection | On/Off (4 Zone setting available) |
| Image ADJ. | Lens SHAD/Mirror/Sharpness/Contrast |
| Language | English |

## Dimension




Analog

# VD102HBH-V12

## Hi-Res Indoor Dome Camera




600 TVL | 2D | 3 Axis

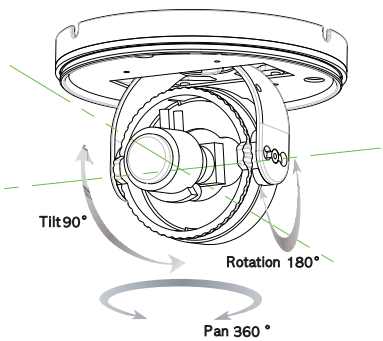
## Special Features

- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Rotatable dome cover after installation to save maintenance cost
- Additional service monitoring out
- 3-Axis

## Key Features

- 1/3" Sony Super HAD CCD II
- High Resolution of 600TVL at Day / 650TVL at Night
- 2DNR (2D Noise Reduction)
- Digital WDR
- 2.8~12mm VF DC IRIS Lens
- Easy-to-use OSD Functions
- 12VDC

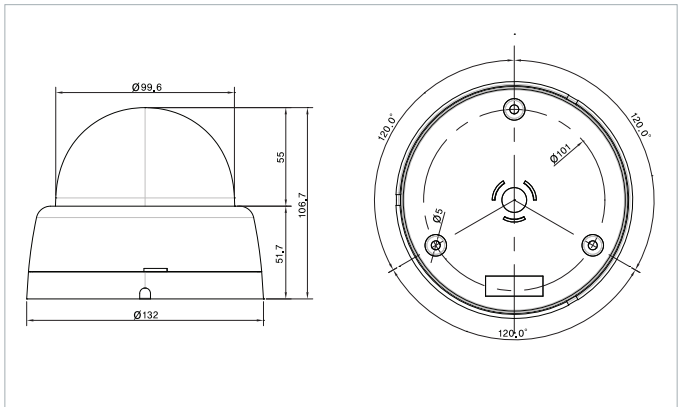
## Perfect 3-Axis




| MODEL | VD102HBH-V12 |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | NTSC : 600 TV Lines(Day)/650 TV Lines(Night)<br>PAL : 590 TV Lines(Day)/640 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 2,300°K ~ 10,500°K Auto<br>ATW1/ATW2/AWC->SET/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 70mA at 12VDC |
| Lens(Standard) | 2.8~12mm Varifocal DC Iris Lens |
| MTBF | 80,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 132(Ø) x 106.7(H) |
| Weight (Approx.g) | 300g |

| Function | |
|---|---|
| D-WDR/BLC | Off / On (User selectable by OSD) |
| 2DNR | Off / On (User selectable by OSD) |
| Privacy Mask | Off / On (8 Zone setting available) |
| Motion Detection | On/Off (4 Zone setting available) |
| Image ADJ. | Lens SHAD/Mirror/Sharpness/Contrast |
| Language | English |

## Dimension



# VD101EP-V12LIR

## 650TVL WDR Night Vision Indoor Dome Camera

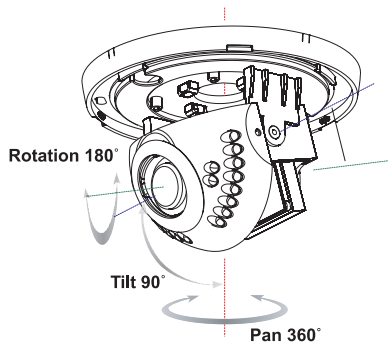



650 TVL | Smart IR | WDR + ATR | 2D + 3D | True Day/Night ICR | 3 Axis

## Key Features

- 1/3" Sony 960H Double Scan Super HAD CCD II
- Super High Resolution of 650TVL at Day / 700TVL at Night
- Super WDR(WDR+ATR)
- Easy-to-use OSD Functions
- 2D/3D DNR (Digital Noise Reduction)
- 2.8~12mm DC IRIS Lens
- Motion Detection
- RS-485(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input
- Tool-free 3-Axis mechanism
- Additional service monitoring output
- Powerful Night Sensitivity
- Smart IR Compensation
- Extended IR LED's Life Cycle and the sensitivity

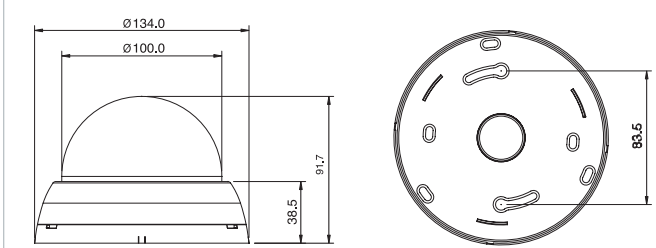
## Perfect 3-Axis




| MODEL | VD101EP-V12LIR |
|---|---|
| Image sensor | 1/3" Double Scan Super HAD CCD II (960H) |
| Effective Pixels | NTSC : 976(H) x 494(V)<br>PAL : 976(H) x 582(V) |
| H. Resolution | 650 TV Lines(Day) / 700 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>ATW/PUSH/USER<br>HOLD selectable by OSD |
| Gain Control | OFF/12dB/18dB/24dB/30dB/36dB/42dB/<br>48dB/54dB/60dB |
| Smear Effect | 0.005% |
| Power source | 12VDC, 24VAC |
| Operating current | 250mA at 12VDC(IR OFF) / 450mA at12VDC(IR ON)<br>150mA at 24VAC(IR OFF) / 220mA at24VAC(IR ON) |
| Lens | 2.8~12mm Varifocal DC Iris lens |
| Viewable Distance | UP to 20M at Moonless Night |
| MTBF OF IR | 20,000 hours |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 134(Ø) x 91.7(H) |
| Weight (Approx.g) | 520 |

| Function | |
|---|---|
| WDR | Off/Auto1/Auto2(User select able by OSD) |
| White balance | ATW/PUSH/USER/HOLD/User selectable |
| Gain Control | Off/12dB/18dB/24dB/30dB/36dB/42dB/48dB/<br>54dB/60dB |
| DNR | 2D/3D DNR |
| Digital Slow Shutter | Off/2x ~ 512x (DSS) |
| Motion Detection | On/Off (4 Zones) |
| Privacy Mosaic | On/Off (4 Zones) |
| Digital Image Stabilizer | On/Off |
| Digital Zoom | Off/1.5x,2x,3x,4x Digital Pan/Tilt) |

## Dimension



# VD101EP-V12L

## 650TVL WDR Day/Night Indoor Dome Camera

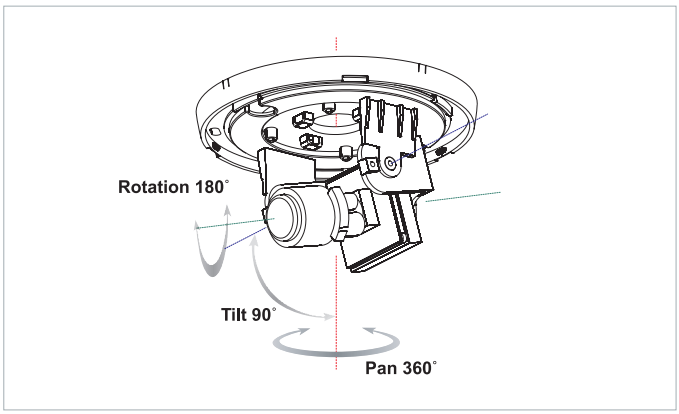



650 TVL | WDR + ATR | 2D + 3D | 3 Axis

## Key Features

- 1/3" Sony 960H Double Scan Super HAD CCD II
- Super High Resolution of 650TVL at Day / 700TVL at Night
- Super WDR(WDR+ATR)
- Easy-to-use OSD Functions
- 2D/3D DNR (Digital Noise Reduction)
- 2.8~12mm DC IRIS Lens
- Motion Detection
- RS-485(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input
- Tool-free 3-Axis mechanism
- Additional service monitoring output
- Powerful Night Sensitivity

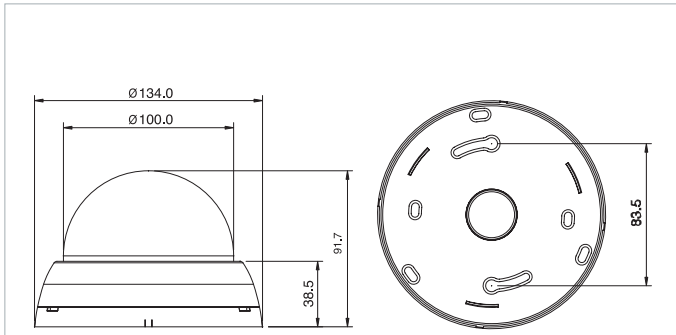
## Perfect 3-Axis




| MODEL | VD101EP-V12L |
|---|---|
| Image sensor | 1/3" Double Scan Super HAD CCD II (960H) |
| Effective Pixels | NTSC : 976(H) x 494(V)<br>PAL : 976(H) x 582(V) |
| H. Resolution | 650 TV Lines(Day) / 700 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0.00001Lux(DSS), 0.05Lux(DSS Off) at F1.2 |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>ATW/PUSH/USER<br>HOLD selectable by OSD |
| Gain Control | OFF/12dB/18dB/24dB/30dB/36dB/42dB/<br>48dB/54dB/60dB |
| Smear Effect | 0.005% |
| Power source | 12VDC, 24VAC |
| Operating current | 250mA at 12VDC, 150mA at 24VAC |
| Lens | 2.8~12mm Varifocal DC Iris lens |
| MTBF | 20,000 hours |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0%RH ~ 80%RH) |
| Measurement (mm) | 134(Ø) x 91.7(H) |
| Weight (Approx.g) | 500 |

| Function | |
|---|---|
| WDR | Off/Auto1/Auto2(User select able by OSD) |
| White balance | ATW/PUSH/USER/HOLD/User selectable |
| Gain Control | Off/12dB/18dB/24dB/30dB/36dB/42dB/<br>48dB/54dB/60dB |
| DNR | 2D/3D DNR |
| Digital Slow Shutter | Off/2x ~ 512x (DSS) |
| Motion Detection | On/Off (4 Zones) |
| Privacy Mosaic | On/Off (4 Zones) |
| Digital Image Stabilizer | On/Off |
| Digital Zoom | Off/1.5x,2x,3x,4x Digital Pan/Tilt) |

## Perfect 3-Axis



# VD101S-V12LIR

## WDR Night Vision Indoor Dome Camera




600 TVL | Smart IR | WDR | 2D + 3D | True Day/Night ICR | 3 Axis

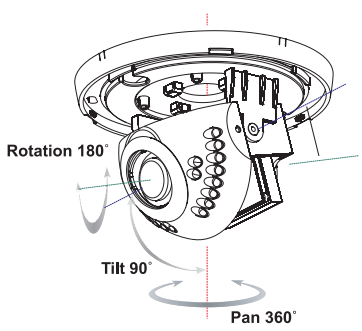
## Special Features

- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Intelligent IR Image Compensation
- Patented SFOCAS(Self FOcus Compensation Against Shift) technology
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- Rotatable dome cover after installation to save maintenance cost
- 4 directional cable out inclusion guarantees concrete wall, ceiling, slope installation
- Additional service monitoring out
- 3-Axis structure combined with tilt-down 90 degree surveillance

## General Features

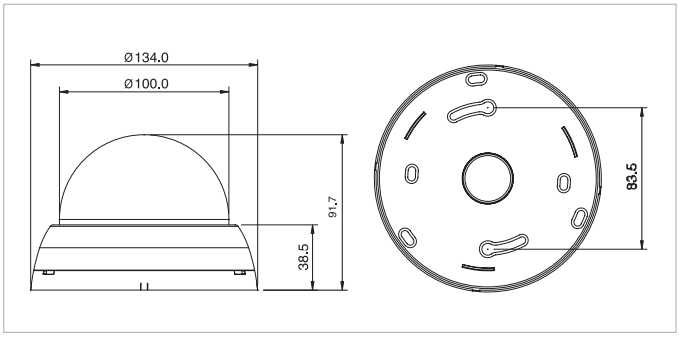
- Super Wide Dynamic(WideLux chip embedded – Ref. page11)
- 600TVL(Day)/650TVL(Night)
- 2.8-12mm VF DC Iris lens
- Night Sensitivity up to 30M
- DIS(Digital Image Stabilizer)
- RS-485 Interface(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input
- 2D/3DNR(Noise Reduction)
- True Day & Night(ICR)
- Motion Detection
- Highlight Eclipse

## Perfect 3-Axis




| MODEL | VD101S-V12LIR |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines<br>PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC / 24VAC |
| Operating current | 200mA / 12VDC(IR Off), 420mA/12VDC(IR On)<br>90mA / 24VAC(IR Off), 180mA/24VAC(IR On) |
| Lens | 2.8~12mm Varifocal Lens |
| Viewable Distance | Up to 30M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | DC IRIS |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 134(Ø) x 91.7(H) |
| Weight (Approx.g) | 520 |
| **Function** | |
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.30 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

## Dimension



# VD101S-V12LDN

## WDR True Day/Night Indoor Dome Camera




600 TVL | WDR | 2D + 3D | True Day/Night ICR | 3 Axis

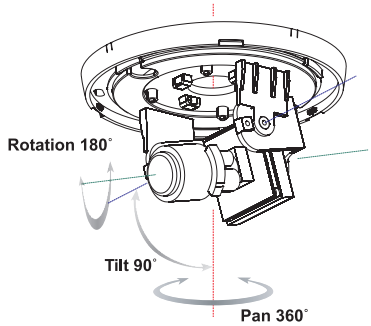
## Special Features

- Rotatable dome cover after installation to save maintenance cost
- 4 directional cable out inclusion guarantees concrete wall, ceiling, slope installation
- Additional service monitoring out
- 3-Axis structure combined with tilt-down 90 degree surveillance

## General Features

- Super Wide Dynamic(WideLux chip embedded – Ref. page11)
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- 2.8-12mm VF DC Iris lens
- Motion Detection
- DIS(Digital Image Stabilizer)
- Highlight Eclipse
- RS-485 Interface(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input

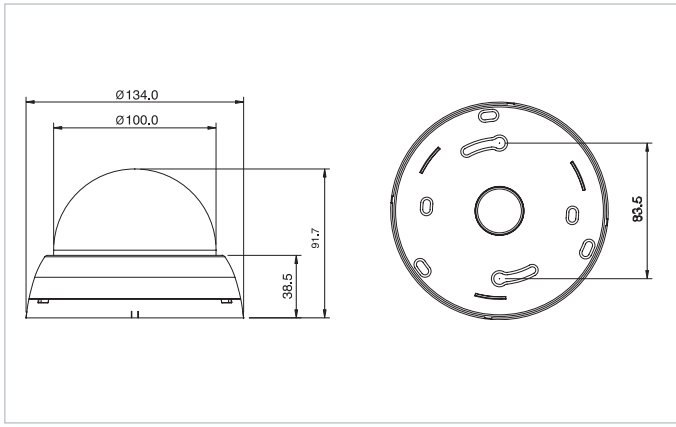
## Perfect 3-Axis




| MODEL | VD101S-V12LDN |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.2(Sens-up Off), 0.0001Lux at F1.2(Sens-up, x 512) |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC / 24VAC |
| Operating current | 200mA at 12VDC<br>90mA at 24VAC |
| Lens | 2.8~12mm Varifocal Lens |
| Lens Option | 2.9 / 3.6 / 4.3 / 6 / 8 / 12 / 16mm |
| Iris Control | DC IRIS |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 134(Ø) x 91.7(H) |
| Weight (Approx.g) | 500 |

| Function | |
|---|---|
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.30 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

## Dimension



# VD101EH-V12LIR

## 650TVL Night Vision Indoor Dome Camera




650 TVL | Smart IR | ATR | 2D | 3 Axis | True Day/Night ICR

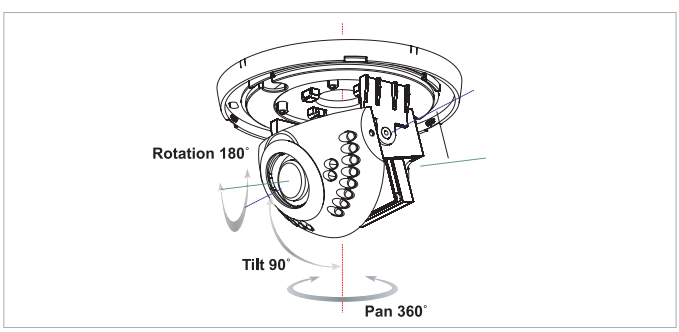
### Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- Privacy Mosaic
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- Diverse White Balance (ATW, Push, Push Lock, User 1/2, Anti Color Rolling, Manual)
- Dynamic and Static White Blemish Compensation
- Easy-to-play OSD button on the unit
- True Day & Night(ICR)
- 2.8-12mm Varifocal DC Auto Iris lens
- Extra Video Out
- Intelligent IR Image Compensation
- 3-Axis
- RS-485 Interface(Pelco-D Protocol)
- 30M IR Beam Distance
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish/ Portuguese/ Japanese)

### Options

- Power source : 12VDC, 12VDC/24VAC
- Mounting : Wall or Ceiling mount bracket

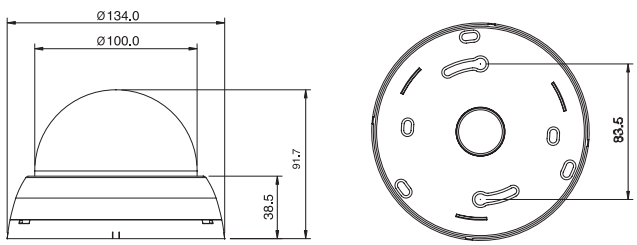
### Perfect 3-Axis




| MODEL | VD101EH-V12LIR |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0Lux |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push/Push lock/ User 1/2, Anti CR, Manual) |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 160mA/12VDC(IR Off), 380mA/12VDC(IR On)<br>85mA/24VAC(IR Off), 165mA/24VAC(IR On) |
| Lens | 2.8-12mm Varifocal DC Auto Iris lens |
| LED Spectrum | 850nm |
| Viewable Distance | Up to 30M at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| Measurement (mm) | 134(D)x91.7(L) |
| Weight (Approx. g) | 520 |

| Function | |
|---|---|
| Shutter/ AGC | Auto/ Manual |
| White Balance | ATW / Push / Push Lock / User 1, 2/<br>Anti CR/ Manual |
| Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| Privacy Mosaic | On/Off (4 Zone setting available) |
| NR | NR Mode/ Y Level/ C Level |
| Camera ID | On/ Off |
| Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/ Japanese |

### Dimension



# VD101EH-V12LDN

## 650TVL True Day/Night Indoor Dome Camera




650 TVL | ATR | 2D | 3 Axis

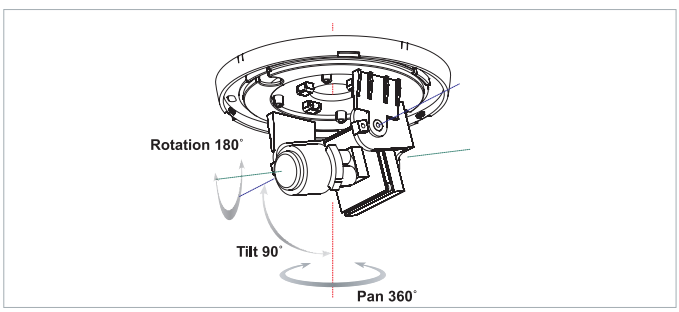
## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- ATR(Adaptive Tone-Curve Reproduction)
- Diverse White Balance (ATW, Push, Push Lock, User 1/2, Anti Color Rolling, Manual)
- Highlight Compensation
- Privacy Mosaic
- Dynamic and Static White Blemish Compensation
- 2.8-12mm Varifocal DC Auto Iris lens
- Extra Video Out
- Easy-to-play OSD button on the unit
- 3-Axis
- RS-485 Interface(Pelco-D Protocol)
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish/ Portuguese/ Japanese)

## Options

- Power source : 12VDC, 12VDC/24VAC
- Lens option : 3.6mm/ 4.3mm/ 6mm/ 8mm Fixed Iris lens - Digital DN
- Mounting : Wall or Ceiling mount bracket

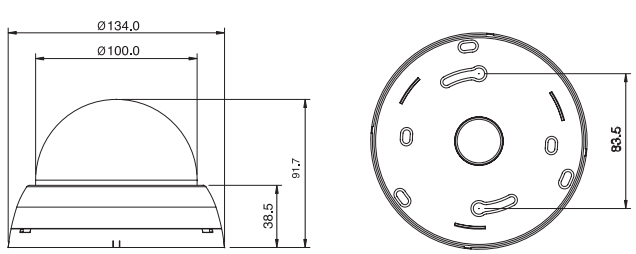
## Perfect 3-Axis




| MODEL | VD101EH-V12LDN |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines<br>PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color)/ 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push/ Push lock/ User 1/2, Anti CR, Manual) |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 160mA/12VDC, 85mA/24VAC |
| Lens(Standard) | 2.8-12mm Varifocal DC Auto Iris lens |
| Lens(Option) | 3.6mm/ 4.3mm/6mm/ 8mm Fixed Iris lens |
| MTBF | 80,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| Measurement (mm) | 134(D)x91.7(L) |
| Weight (Approx. g) | 500 |

| Function | |
|---|---|
| Shutter/ AGC | Auto/ Manual |
| White Balance | ATW / Push / Push Lock / User 1, 2/<br>Anti CR/ Manual |
| Backlight | BLC/ HLC/ Off |
| Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| ATR | On/ Off |
| Privacy Mosaic | On/Off (4 Zone setting available) |
| Day/Night | Auto/ Color/ BW |
| NR | NR Mode/ Y Level/ C Level |
| Camera ID | On/ Off |
| Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/ Japanese |

## Dimension



# VDS120S-V12DN

## WDR Ultra Slim Indoor Dome Camera



600 TVL | WDR | 2D + 3D | True Day/Night ICR | 3 Axis

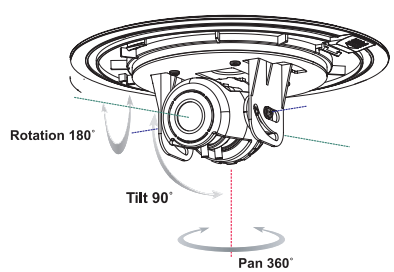
## Special Features

- Ultra Slim Design gets perfect Tool-free 3-Axis mount
- Easy Installation with One-touch separated dome cover
- Rotatable dome cover after installation to save maintenance cost
- Additional service monitoring out
- 3-Axis structure combined with tilt-down 90 degree surveillance
- Optional mounting adaptor with 4 directional cable out guarantees concrete wall, ceiling, slope installation

## General Features

- Super Wide Dynamic
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- 3.3-12mm VF DC Iris lens
- True Day & Night(ICR)
- Motion Detection
- DIS(Digital Image Stabilizer)
- Highlight Eclipse
- RS-485 Interface(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input

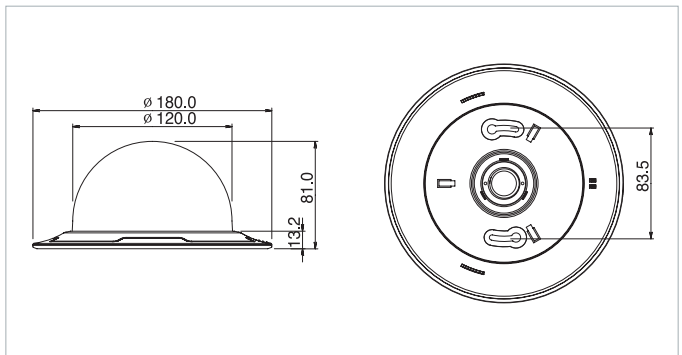
## Perfect 3-Axis




| MODEL | VDS120S-V12DN |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.2(Sens-up Off), 0.0001Lux at F1.2(Sens-up, x 512) |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC / 24VAC |
| Operating current | 200mA at 12VDC<br>90mA at 24VAC |
| Lens | 3.3~12mm Varifocal Lens |
| Iris Control | DC IRIS |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 180(Ø) x 81(H) |
| Weight (Approx.g) | 950 |

| Function | |
|---|---|
| WDR | Off / On (User selectable by OSD) |
| 3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.30 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

## Dimension



# VDS120EH-V12DN

## 650TVL Ultra Slim Indoor Dome Camera

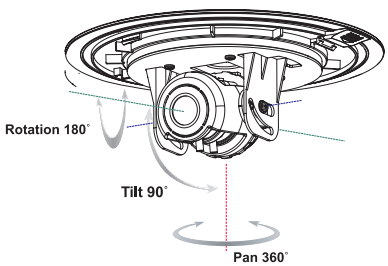



650 TVL | ATR | 2D | True Day/Night ICR | 3 Axis

## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- ATR(Adaptive Tone-Curve Reproduction)
- Diverse White Balance (ATW, Push, Push Lock, User 1/2, Anti Color Rolling, Manual)
- Highlight Compensation
- Dynamic and Static White Blemish Compensation
- Privacy Mosaic
- 3.3-12mm Varifocal DC Auto Iris lens
- Extra Video Out
- Easy-to-play OSD button on the unit
- Tool-free 3-Axis
- RS-485 Interface(Pelco-D Protocol)
- 12VDC/ 24VAC
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish/ Portuguese/ Japanese)

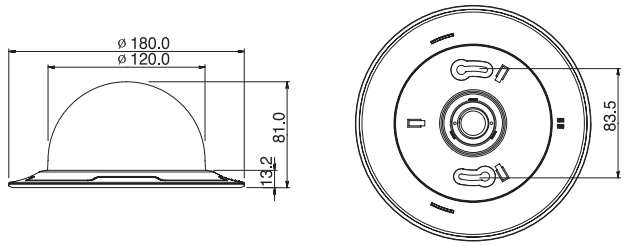
## Perfect 3-Axis




| MODEL | VDS120EH-V12DN |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color)/ 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push/ Push lock/ User 1/2, Anti CR, Manual) |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 150mA/12VDC, 85mA/24VAC |
| Lens | 3.3-12mm Varifocal DC Auto Iris lens |
| MTBF | 80,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| Measurement (mm) | 180(D)x81(L) |
| Weight (Approx. g) | 950 |

| Function | |
|---|---|
| Shutter/ AGC | Auto/ Manual |
| White Balance | ATW / Push/ Push Lock / User 1, 2/<br>Anti CR/ Manual |
| Backlight | BLC/ HLC/ Off |
| Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| ATR | On/ Off |
| Privacy Mosaic | On/Off (4 Zone setting available) |
| Day/Night | Auto/ Color/ BW |
| NR | NR Mode/ Y Level/ C Level |
| Camera ID | On/ Off |
| Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/ Japanese |

## Dimension



# VDS120D88-V12DN

## Pixim Seawolf WDR Ultra Slim Indoor Dome Camera




WDR | 2D + 3D | 3 Axis

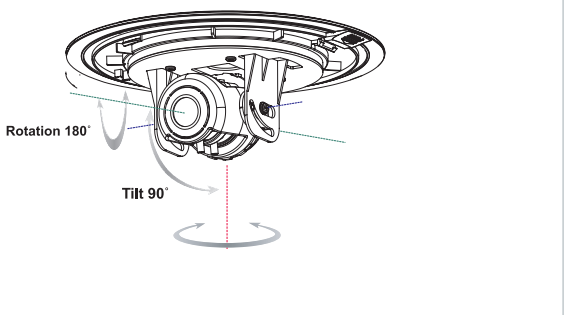
### Special features

- Ultra Slim Design gets perfect Tool-free 3-Axis mount
- Easy Installation with One-touch separated dome cover
- Rotatable dome cover after installation to save maintenance cost
- Additional service monitoring out
- 3-Axis structure combined with tilt-down 90 degree surveillance
- Optional mounting adaptor with 4 directional cable out guarantees concrete wall, ceiling, slope installation

### General features

- Pixim WDR Digital image device
- 690HTVL effective
- 3.3-12mm VF DC Iris lens
- Enhanced low light performance up to 0.003 Lux(DSS On)
- True Day & Night(ICR)
- Privacy masking
- RS-485 Interface(Pelco-D)

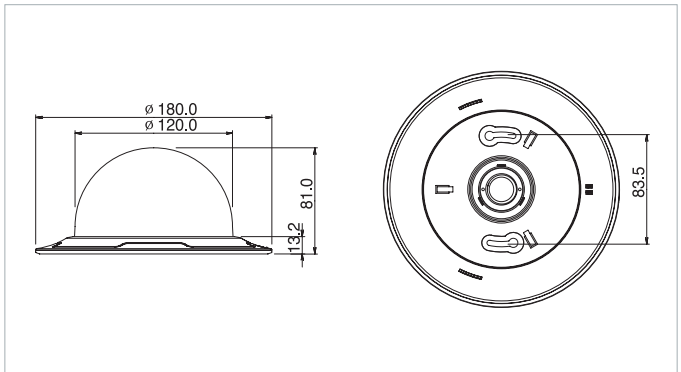
### Perfect 3-Axis




| MODEL | VDS120D88-V12DN |
|---|---|
| Image sensor | 1/3" WDR digital imaging device |
| Dynamic range | 102dB typical / 120dB max |
| Video capture | Progressive Scan 50fps / 60fps |
| Transfer format | PsF (Pogressive with Segmented Frames) |
| Effective Pixels | 758(H) x 540(V) pixel |
| H.Resolution | 690HTVL effective |
| Sync system | Internal |
| Video output | 1.0 to 1.2 Vp-p composite 75ohms<br>(NTSC / PAL Compatible) |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.4(DSS Off), 0.003Lux at F1.4(DSS On) |
| Electronic Shutter Speed | 1/25 - 1/30,720 second (F1.4) |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| AGC | Programable up to 55dB |
| Power source | 12VDC / 24VAC |
| Operating current | 250mA at 12VDC<br>110mA at 24VAC |
| Lens | 3.3~12mm VF DC Iris lens |
| Iris Control | DC IRIS / Manual IRIS |
| Operating Temperature | 14˚F ~ 122˚F (-10˚C ~ +50˚C) |
| Humidity | Within 90% RH |
| Measurement (mm) | 180(Ø) x 81(H) |
| Weight (Approx.g) | 950 |

| OSD Menu | |
|---|---|
| WDR | Low / Middle / High / User(0 ~ 36) |
| White Balance | ATW / AWC Manual selectable<br>2,000˚K ~ 11,000˚K Auto |
| Gain Control | Off, Low, Middle, High |
| Gamma correction | $\gamma$ 0.25 ~ $\gamma$ 1 (25 ~ 100) |
| Back Light Compensation | Off / On |
| ACG | 26dB / 30dB / 34dB / 40dB / 46dB / 51dB / 55dB |
| Digital s low shutter | Off / 2x / 4x / 6x / 8x / 16x / 32x |
| Privacy Masking | On / Off (6 Programmable zones) |
| Reversal | NORMAL / H-REV / V-REV / FLIP |
| Day / Night | Auto / Color / BW |
| Protocol | Pelco-D |
| Reversal | NOR / MIR / VER / FLIP |
| Privacy Mask | Off / On (6 Zone setting available) |
| Protocol | Pelco-D |

### Dimension



# VC57D88

## Pixim Seawolf WDR True Day/Night Box Camera




WDR | 2D + 3D | True Day/Night ICR

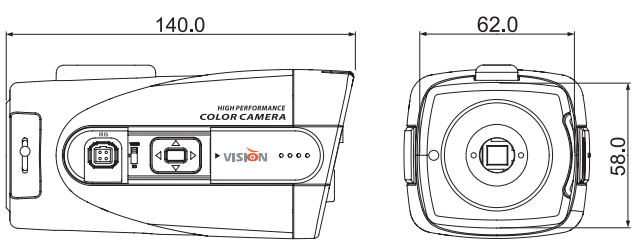
## Special features

- Intelligent CDS sensor and Mechanical Day/Night dual filter system
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- C/CS and Flange-back focus adjustment lever built-in
- Stylish Design

## Key Features

- 1/3" Pixim WDR Digital Imaging Device
- Easy-to-use OSD Functions
- C/CS and Flange-back focus adjustment lever built-in
- IR Sensitive Mechanical Day/Night Filter System Built-in
- Optic photo sensor built-in
- High Resolution of 690HTVL effective
- 2DNR (2D Noise Reduction)
- 3DNR (3D Motion Adaptive Noise Reduction)
- Dynamic Range 120dB Maximum
- Digital Zoom 8X (Pan, Tilt)
- Digital Slow Shutter(DSS 32x max)
- Privacy masking(6 zones)
- RS-485(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input

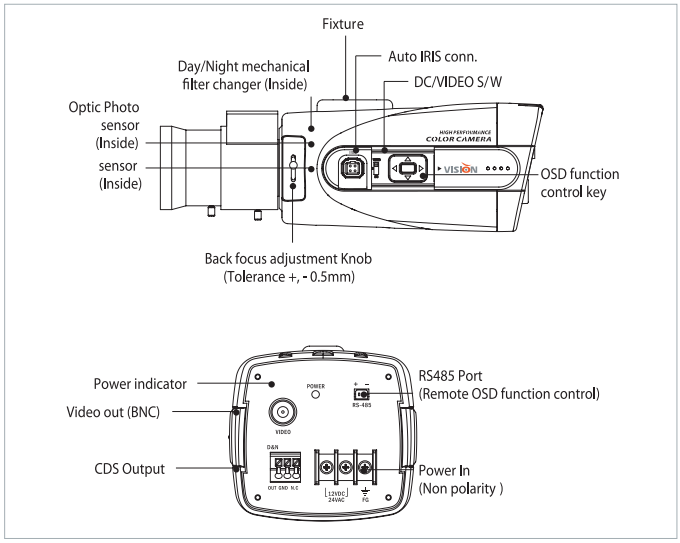
## Dimension




| MODEL | VC57D88 |
|---|---|
| Image sensor | 1/3" WDR digital imaging device |
| Dynamic Range | 102dB typical / 120dB max. |
| Video capture | Progressive Scan 50fps / 60fps |
| Transfer format | PsF (Progressive with Segmented Frames) |
| Total Pixels | 768(H) x 548(V) pixel |
| Effective Pixels | 758(H) x 540(V) pixel |
| H.Resolution | 690HTVL effective |
| Synchronizing system | Internal |
| Video output | 1.0 to 1.2 Vp-p Composite 75<br>(NTSC/PAL Compatible) |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.4(DSS Off), 0.003Lux at F1.4(DSS On) |
| Electronic Shutter Speed | 1/25 ~ 1/30,720 second (F1.4) |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| AGC | Programable up to 55dB |
| Power source | 12VDC / 24VAC |
| Operating current | 270mA(Max) at12VDC, 160mA(Max) at24VAC |
| Lens | C/CS Mount |
| Iris Control | MANUAL / DC / VIDEO |
| Operating temp./Humidity | -10°C ~ +50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 62(W) x 58(H) x 140(L) |
| Weight (Approx.g) | 680 |

| Function | |
|---|---|
| WDR | Low / Middle / High / User(0 ~ 36) |
| White Balance | ATW / AWC / Manual selectable<br>2,000°K ~ 11,000°K Auto |
| Gamma Correction | $\gamma$ 0.25 ~ $\gamma$ 1 (25 ~ 100) |
| Back Light Compensation | Off / On |
| AGC | 26dB / 30dB / 34dB / 40dB / 46dB / 51dB / 55dB |
| 2DNR | Off / On (User selectable by OSD) |
| Digital Slow Shutter | Off / 2x ~ 32x (DSS) |
| Digital PTZ | Off, X1 ~ X8(Pan, Tilt) |
| Day / Night | Ext / Auto / Color / BW (Burst On/Off) |
| Reversal | NORMAL / H-REV / V-REV / FLIP |
| Privacy Mask | Off / On (6 Zone setting available) |
| Protocol | Pelco-D (2400 / 4800 / 9600 / 19200) |
| Lens Setting | MANUAL / DC / VIDEO |
| Protocol | Pelco-D |
| Lens Setting | MANUAL / DC / VIDEO |

## Function



# VC58EP

## 650TVL WDR True Day/Night Box Camera




650 TVL | WDR + ATR | 2D + 3D | True Day/Night ICR

## Special Features

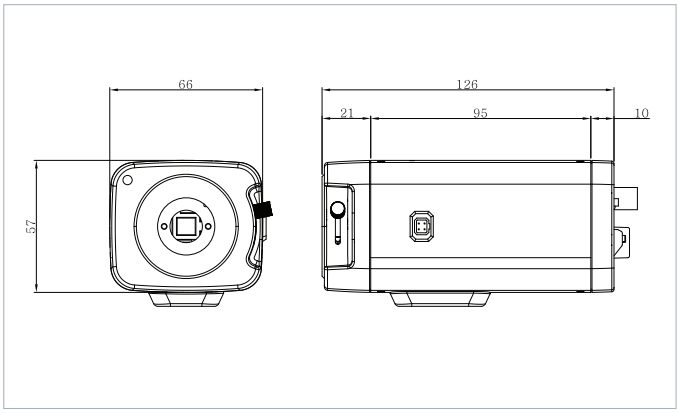
- 1/3" Sony 960H Double Scan Super HAD CCDII
- Super high resolution of 650TVL(Day)/700TVL(Night)
- Accurate Day/Night Switching over by using lens built-in CDS sensor to Reflect the lux level of the subject
- C/CS and Flange-back focus adjustment lever built-in

## General Features

- Super WDR(WDR+ATR)
- 2D/3D DNR (Digital Noise Reduction)
- Greatly enhanced sensitivity of 0.00001 Lux
- Motion Detection
- Privacy Mosaic
- Digital zoom(1.5x~4x)
- Digital Pan/Tilt
- DIS(Digital Image Stabilizer)
- Digital Slow Shutter(DSS)
- RS-485 Interface(Pelco-D)
- 12VDC, 12VDC/24VAC

| MODEL | | VC58EP | |
|---|---|---|---|
| Power source | | DC12V | DC12V / AC24V |
| | | 205mA(Max) | 265mA(Max) / 115mA(Max) |
| CCD | Image sensor | 1/3" Double Scan Super HAD CCD II (SONY) | |
| | Total Pixel | NTSC: 1028(H)X508(V)=520K Pixels<br>PAL:1028(H)X596(V)=610K Pixels | |
| | Effective Pixels | NTSC:976(H)X494(V)<br>PAL:976(H)X582(V) | |
| Sync | Scanning system | NTSC 525 Lines PAL 625 Lines 2:1 Interlaced | |
| | Synchronization | Internal | |
| | Frequency | NTSC : Horizontal : 15.743KHz /<br>Vertical : 59.94KHz | |
| | | PAL : Horizontal : 15.625KHz / Vertical : 50KHz | |
| O.S.D | | English | |
| Electrical | WDR | 54dB(OFF/AUTO1/AUTO2) | |
| | BLC | ON/OFF | |
| | Resolution | Color : 650TV Lines, B/W : 700TV Lines | |
| | S/N Ratio | 50dB(AGC OFF, Weight ON) | |
| | Video output | 1.0Vp-p Composite 75 Ohms | |
| | Min. Illumination | 0.00001Lux(DSS), 0.05Lux(DSS OFF) at 1.2 | |
| | White Balance | ATW/PUSH/HOLD/USER/<br>1,800°K ~ 10,500°K | |
| | Shutter Speed | AUTO/MANUAL(1/60 ~1/100,000 NTSC,<br>1/50 ~ 1/100,000 PAL) | |
| | DSS | AUTO/OFF(Selectable limit x2 ~ x512) | |
| | Gain Control | OFF/12dB/18dB/24dB/30dB/36dB/42dB/48dB/54 dB/60dB | |
| | DNR | 2D/3D DNR | |
| | Motion Detection | ON / OFF(4 Zone) | |
| | Privacy | ON / OFF(4 Zone) | |
| | Reversal | NOR/MIR/VER/FLIP | |
| | Sharpness | Level Adjustable(1~15) | |
| | Iris Control | DC / Manual | |
| | Day & Night | COLOR / BW / AUTO | |
| | Digital Zoom | ON / OFF (Digital Pan/Tilt) | |
| | DIS | DIS(Digital Image Stabilizer) ON / OFF | |
| LENS | | C / CS Mount | |
| Operation Temperature/Humidity | | -10℃ to +50℃ / 30% to 80% RH | |
| Measurement(mm) | | 66(W) x 57(V) x 126.5(L) | |
| Weight(Approx. g) | | 550 | |

## Dimension



# VC58S

## WDR True Day/Night Box Camera




600 TVL | WDR | 2D + 3D | True Day/Night ICR

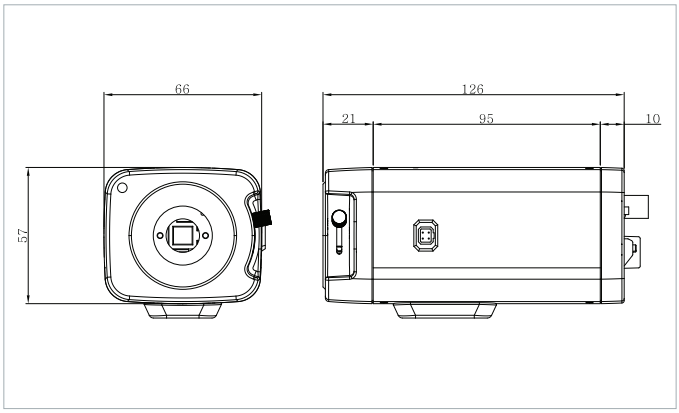
## Special Features

- Intelligent CDS sensor and Mechanical Day/Night dual filter system
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- C/CS and Flange-back focus adjustment lever built-in
- Highlight Eclipse makes the selected highlight masked and the dark brightened simultaneously to capture the numbers on License Plate clearly at night.

## General Features

- Super Wide Dynamic
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- Motion Detection
- DIS(Digital Image Stabilizer)
- Highlight Eclipse
- RS-485 Interface(Pelco-D)
- 12VDC, 12VDC/24VAC

## Dimension




| MODEL | VC58S |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.2(Sens-up Off), 0.0001Lux at F1.2(Sens-up, x 512) |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC / 24VAC |
| Operating current | 200mA at 12VDC<br>90mA at 24VAC |
| Iris Control | DC/MANUAL |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 66(W) x 57(V) x 126.5(L) |
| Weight (Approx.g) | 550 |

| Function | |
|---|---|
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Digital Slow Shutter | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.30 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

# VC58EH

## 650TVL True Day/Night Box Camera




650 TVL | ATR | 2D | True Day/Night ICR

## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- ATR(Adaptive Tone-Curve Reproduction)
- Diverse White Balance (ATW, Push, Push Lock, User 1/2, Anti Color Rolling, Manual)
- Highlight Compensation
- Dynamic and Static White Blemish Compensation
- Privacy Mosaic
- C/CS mount
- True Day & Night(ICR)
- Flange-back focus adjustment lever built-in
- Easy-to-play OSD button on the unit
- RS-485 Interface(Pelco-D Protocol)
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish/ Portuguese/ Japanese)
- Stylish design

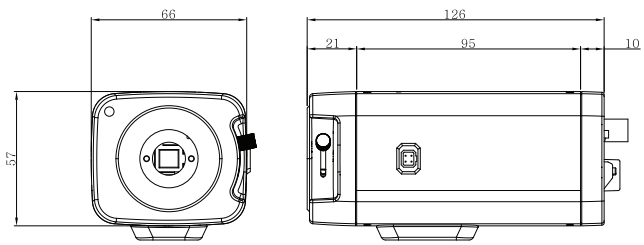
## Options

- Power source : 12VDC, 12VDC/24VAC

| MODEL | VC58EH |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color)/ 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push/ Push Lock/ User 1/2, Anti CR, Manual) |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 150mA/12VDC, 85mA/24VAC |
| Mount | C/CS mount |
| MTBF | 80,000 hours |
| Iris Control | DC/ Manual |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| Measurement (mm) | 66(V)x57(H)x126.5(D) |
| Weight (Approx. g) | 550 |

| Function | |
|---|---|
| Lens | Auto/ Manual |
| Shutter/ AGC | Auto/ Manual |
| White Balance | ATW /Push/ Push Lock / User 1, 2/<br>Anti CR/ Manual |
| Backlight | BLC/ HLC/ Off |
| Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| ATR | On/ Off |
| Privacy Mosaic | On/Off (4 Zone setting available) |
| NR | NR Mode/ Y Level/ C Level |
| Camera ID | On/ Off |
| Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/Japanese |

## Dimension



# VC58D88

## Pixim Seawolf WDR True Day/Night Box Camera




WDR 2D + 3D True Day/Night ICR

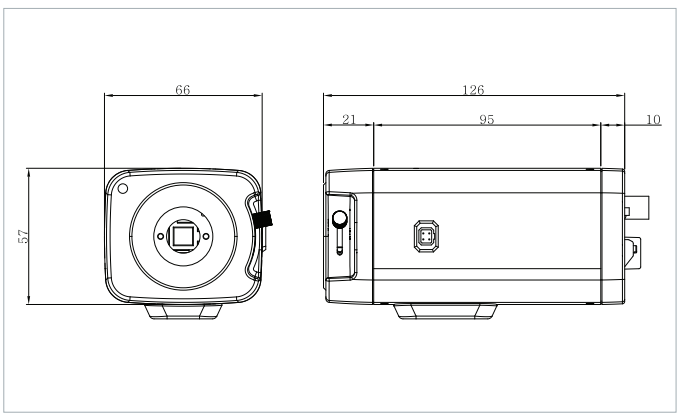
## Key Features

- 1/3" Pixim WDR Digital Imaging Device
- Easy-to-use OSD Functions
- C/CS and Flange-back focus adjustment lever built-in
- IR Sensitive Mechanical Day/Night Filter System Built-in
- Optic photo sensor built-in
- High Resolution of 690HTVL effective
- 2DNR (2D Noise Reduction)
- 3DNR (3D Motion Adaptive Noise Reduction)
- Dynamic Range 120dB Maximum
- Digital Zoom 8X (Pan, Tilt)
- Digital Slow Shutter(DSS 32x max)
- Privacy masking(6 zones)
- RS-485(Pelco-D)
- 12VDC/24VAC Non-polarity Power Input

| MODEL | VC58D88 |
|---|---|
| Image sensor | 1/3" WDR digital imaging device |
| Dynamic Range | 102dB typical / 120dB max. |
| Video capture | Progressive Scan 50fps / 60fps |
| Transfer format | PsF (Progressive with Segmented Frames) |
| Total Pixels | 768(H) x 548(V) pixel |
| Effective Pixels | 758(H) x 540(V) pixel |
| H.Resolution | 690HTVL effective |
| Synchronizing system | Internal |
| Video output | 1.0 to 1.2 Vp-p Composite 75 Ohms (NTSC/PAL Compatible) |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.4(DSS Off), 0.003Lux at F1.4(DSS On) |
| Electronic Shutter Speed | 1/25 - 1/30,720 second (F1.4) |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| AGC | Programable up to 55dB |
| Power source | 12VDC / 24VAC |
| Operating current | 270mA(Max) at12VDC<br>160mA(Max) at24VAC |
| Lens | C/CS Mount |
| Iris Control | MANUAL / DC |
| Operating temp./Humidity | -10°C ~ +50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 62(W) x 58(H) x 140(L) |
| Weight (Approx.g) | 680 |

| Function | |
|---|---|
| WDR | Low / Middle / High / User(0 ~ 36) |
| White Balance | ATW / AWC / Manual selectable<br>2,000°K ~ 11,000°K Auto |
| Gamma Correction | $\gamma$ 0.25 ~ $\gamma$ 1 (25 ~ 100) |
| Back Light Compensation | Off / On |
| AGC | 26dB / 30dB / 34dB / 40dB / 46dB / 51dB / 55dB |
| 2DNR | Off / On (User selectable by OSD) |
| Digital Slow Shutter | Off / 2x ~ 32x (DSS) |
| Digital PTZ | Off, X1 ~ X8(Pan, Tilt) |
| Day / Night | Ext / Auto / Color / BW (Burst On/Off) |
| Reversal | NORMAL / H-REV / V-REV / FLIP |
| Privacy Mask | Off / On (6 Zone setting available) |
| Protocol | Pelco-D (2400 / 4800 / 9600 / 19200) |
| Lens Setting | MANUAL / DC |

## Dimension



# VC56S

## WDR Digital Day/Night Box Camera



600 TVL | WDR | 2D + 3D

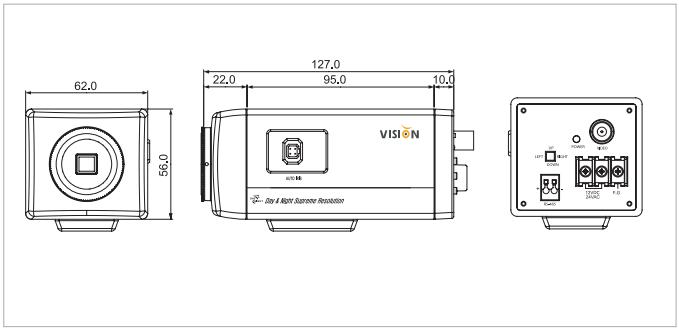
## Special Features

- Standard design gets high quality video in WideLux technology
- Highlight Eclipse makes the selected highlight masked and the dark brightened simultaneously to capture the numbers on License Plate clearly at night.

## General Features

- Super Wide Dynamic
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- Motion Detection
- DIS(Digital Image Stabilizer)
- Highlight Eclipse
- RS-485 Interface(Pelco-D)
- Vandalproof
- 12VDC/24VAC Non-polarity Power Input

## Dimension




| MODEL | VC56S |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.2(Sens-up Off), 0.0001Lux at F1.2(Sens-up, x 512) |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC / 24VAC |
| Operating current | 200mA at 12VDC<br>90mA at 24VAC |
| Iris Control | DC/MANUAL |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 62(W) x 56(V) x 127(L) |
| Weight (Approx.g) | 510 |

| Function | |
|---|---|
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Digital Slow Shutter | Off / 2x ~ 512x (DSS) |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.30 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

# VC56EH

## 650TVL Digital Day/Night Box Camera



650 TVL | ATR | 2D

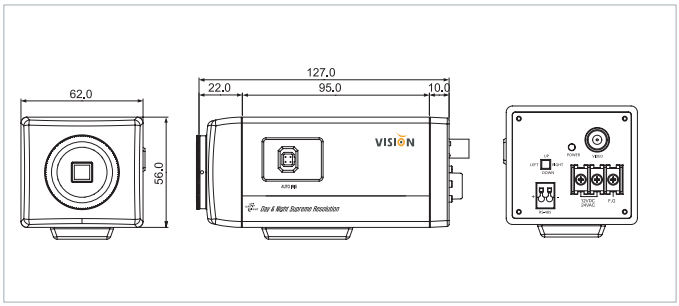
## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- ATR(Adaptive Tone-Curve Reproduction)
- Diverse White Balance (ATW, Push, Push Lock, User 1/2, Anti Color Rolling, Manual)
- Highlight Compensation
- Dynamic and Static White Blemish Compensation
- Privacy Mosaic
- C/CS mount
- Digital Day & Night
- Easy-to-play OSD button on the unit
- RS-485 Interface(Pelco-D Protocol)
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish/ Portuguese/ Japanese)

## Options

- Power source : 12VDC, 12VDC/24VAC

## Dimension




| MODEL | VC56EH |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color)/ 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push/ Push lock /User 1/2, Anti CR, Manual) |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC, 12VDC/24VAC |
| Operating current | 150mA/12VDC, 85mA/24VAC |
| Mount | C/CS mount |
| MTBF | 80,000 hours |
| Iris Control | DC/ Manual |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| Measurement (mm) | 62(W)x56(H)x127(D) |
| Weight (Approx. g) | 510 |

| Function | |
|---|---|
| Lens | Auto/ Manual |
| Shutter/ AGC | Auto/ Manual |
| White Balance | ATW /Push/Push Lock / User 1, 2/<br>Anti CR/ Manual |
| Backlight | BLC/ HLC/ Off |
| Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| ATR | On/ Off |
| Privacy Mosaic | On/Off (4 Zone setting available) |
| Day/Night | Auto/ Color/ BW |
| NR | NR Mode/ Y Level/ C Level |
| Camera ID | On/ Off |
| Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/Japanese |

# VC34S

## WDR Digital Day/Night Mini Box Camera




600 TVL | WDR | 2D + 3D

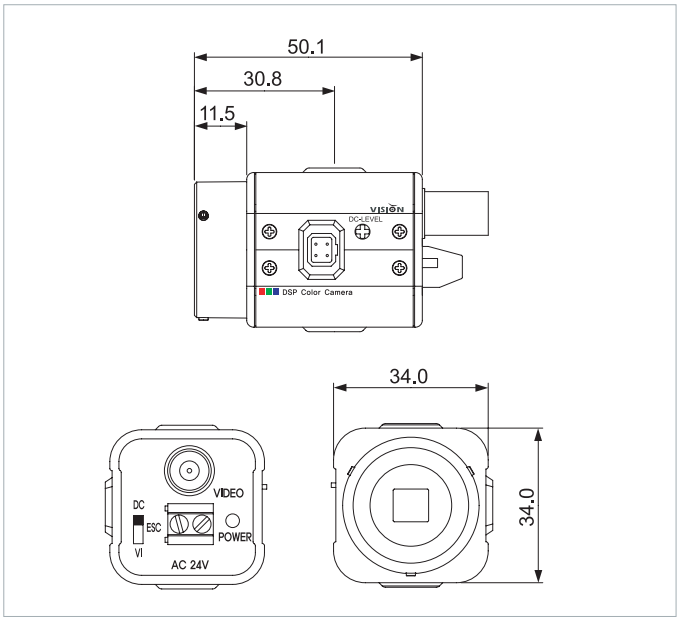
## Key Features

- 1/3" Sony Super HAD CCD II
- 600TVL(D)/ 650TVL(N)
- Real Wide Dynamic
- 2D/3D DNR(Digital Noise Reduction)
- Diverse White Balance (ATW, Col_Roll/ Push/ Manual)
- Motion Detection
- DIS(Digital Image Stabilizer)
- Highlight Eclipse
- Privacy Masking
- RS-485 Interface(Pelco-D Protocol)
- C/CS Mount
- Min. Illumination : 0.1Lux(Sens-up off), 0.0001Lux(Sens-up x512)
- Easy-to-play OSD button on the unit
- Multi-Lingual OSD(English/ German/ French/ Russian/ Spanish)
- 12VDC

| MODEL | VC34S |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V) |
| H. Resolution | 600TV Lines(Color)/ 650TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Sens-up off)/ 0.0001Lux(Sens-up x512) |
| Shutter Speed | NTSC:1/60~1/90,000 sec. PAL:1/50~1/90,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,500°K ~ 11,000°K Auto (ATW/ Col-Roll/ Push/ Manual) |
| Gain Control | Standard : -6dB ~ 34dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 200mA/12VDC |
| Lens mount | C/CS mount |
| MTBF | 80,000 hours |
| Iris Control | DC/ Manual |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| Measurement (mm) | 34(W)x34(H)x50(D) |
| Weight (Approx. g) | 200 |

| Function | |
|---|---|
| WDR | On/ Off (User selectable by OSD) |
| 2D/3D DNR | On/ Off (User selectable by OSD) |
| Sens-up | Off/ x2 ~x512 |
| Motion Detection | On/ Off (8 Zone setting available) |
| Digital zoom | Off, x1 ~ x8.30 |
| White Balance | ATW/ Col_Roll/ Push/ Manual |
| Privacy masking | On/ Off (8 Zone setting available) |

## Dimension




Analog

# VB60EH-VF

## 650TVL Outdoor Camera




650 TVL | ATR | 2D | IP 67

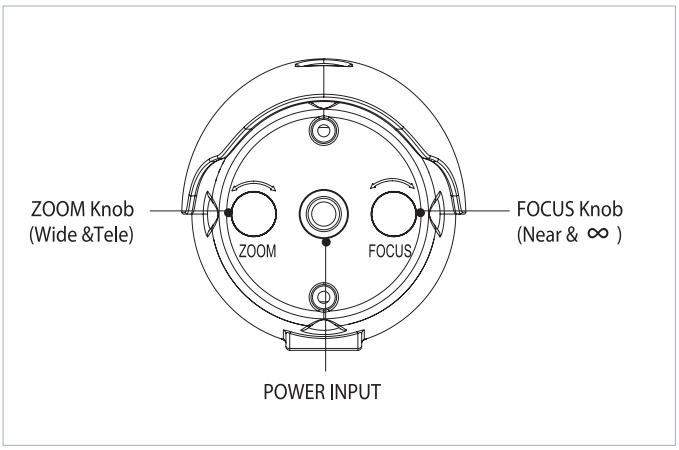
### Key Features

- 1/3" Sony 960H Ex-view HAD CCDII
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- 4-9mm Varifocal lens
- External Focus Adjustment
- IP67 Weatherproof
- 12VDC

### Options

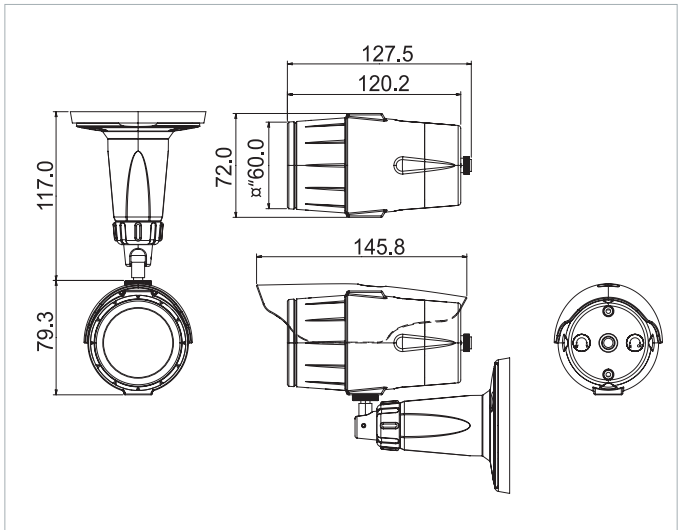
- Lens : 9-22mmVarifocal lens

### Zoom & Focus External adjustment




| MODEL | VB60EH-VF |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color)/ 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 120mA |
| Lens(Standard) | 4-9mm Varifocal lens |
| Lens(Option) | 9-22mm Varifocal lens |
| MTBF | 80,000 hours |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| IP Rating | 67 |
| Measurement (mm) | 60(D) x127.5(L) |
| Weight (Approx. g) | 930 |

### Dimension



# VB30S

## WDR Varifocal Bullet Camera



600 TVL | WDR | 2D + 3D | IP 67

## Special Features

- Compact design with 3.5–16mm lens/F1.2
- External Focus adjustment

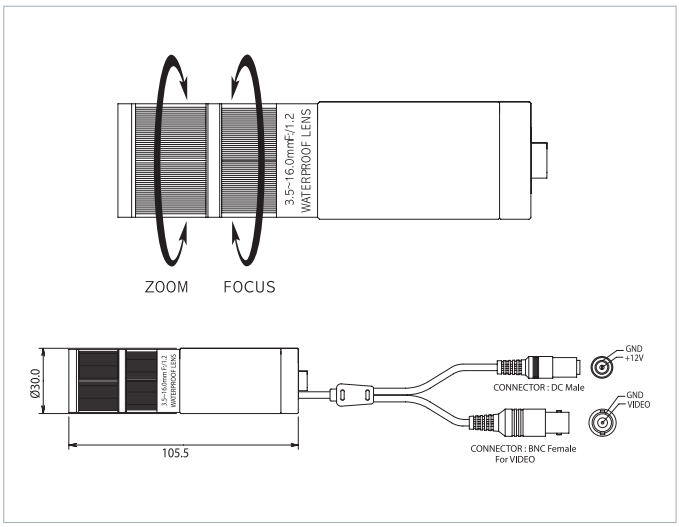
## General Features

- Super Wide Dynamic
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- DIS(Digital Image Stabilizer)
- IP67 Weatherproof
- 12VDC

| MODEL | VB30S |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.2(Sens-up Off), 0.0001Lux at F1.2(Sens-up, x 512) |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 120mA |
| Lens | 3.5~16mm Varifocal Lens |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | 30(Ø) x 105.5(L) |
| Weight (Approx.g) | 250 |

| Function | |
|---|---|
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x (DSS) |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.30 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

## Dimension




Analog

# VB30EH

## 650TVL Varifocal Bullet Camera



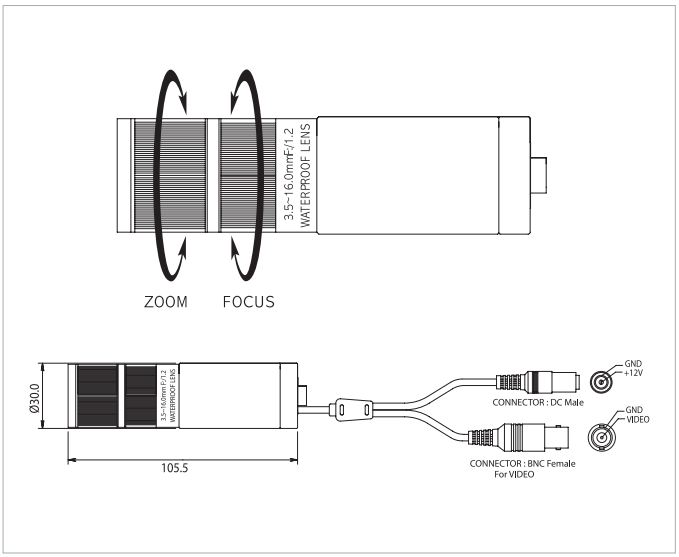
650 TVL | ATR | 2D | IP 67

| MODEL | VB30EH |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color)/ 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 120mA |
| Lens | 3.5-16mm Varifocal lens/F1.2 |
| MTBF | 80,000 hours |
| Iris Control | Electronic |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| IP Rating | 67 |
| Measurement (mm) | 30(D) x105.5(L) |
| Weight (Approx. g) | 250 |

## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- 3.5-16mm Varifocal lens/F1.2
- Digital Day & Night
- External Focus Adjustment
- IP67 Weatherproof
- 12VDC

## Dimension



# VB30EP

## 650TVL WDR Varifocal Bullet Camera



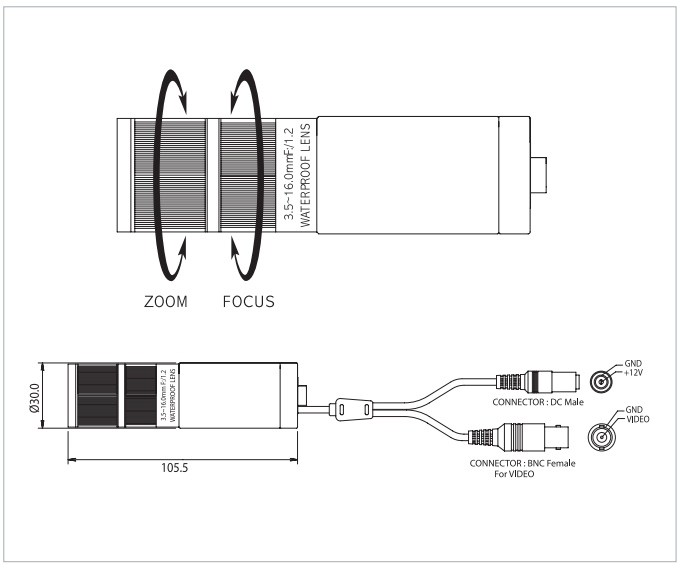
650 TVL | WDR + ATR | 2D + 3D | IP 67

| MODEL | VB30EP |
|---|---|
| Image sensor | 1/3" Double Scan Super HAD CCD II (960H) |
| Effective Pixels | NTSC : 976(H) x 494(V)<br>PAL : 976(H) x 582(V) |
| H. Resolution | over 650 TV Lines(Day) / 700 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0.001Lux(DSS), 0.05Lux(DSS Off) at F1.2 |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 140mA |
| Lens | 3.5-16mm Varifocal lens/F1.2 |
| MTBF | 80,000 hours |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | Refer to dimensions |
| Weight (Approx.g) | 250 |

## Key Features

- 1/3" Sony 960H Double Scan Super HAD CCD II
- Super High Resolution of 650TVL at Day / 700TVL at Night
- Super WDR(WDR+ATR)
- 2D/3D DNR (Digital Noise Reduction)
- Excellent color reproduction
- Reverse polarity power input protection built-in
- 12VDC
- IP67 Weatherproof

## Dimension



# VB21EP

## 650TVL WDR Mini Bullet Camera



VB21EP-W36



VB21EP-B36



VB21EP-P37P



VB21EP-P37C



VB21EP-H36



VB21EP-R36

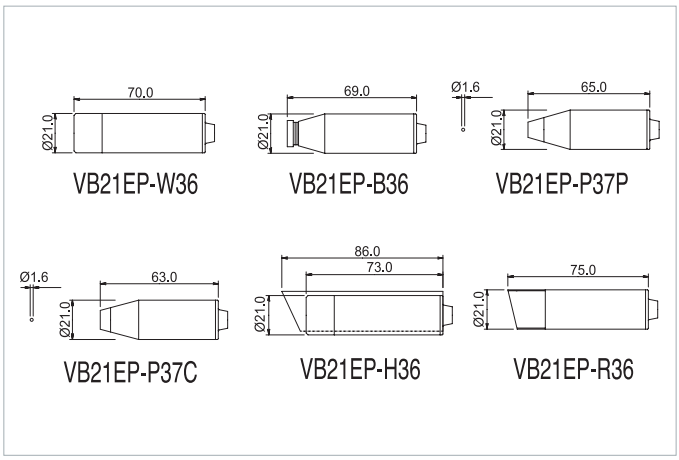
650 TVL | WDR + ATR | 2D + 3D

| MODEL | VB21EP |
|---|---|
| Image sensor | 1/3" Double Scan Super HAD CCD II (960H) |
| Effective Pixels | NTSC : 976(H) x 494(V)<br>PAL : 976(H) x 582(V) |
| H. Resolution | over 650 TV Lines(Day) / 700 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 626 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 50dB (AGC Off) |
| Min. Illumination | 0.001Lux(DSS), 0.05Lux(DSS Off) at F1.2 |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 140mA |
| Lens | Board lens : 3.6mm(92°)<br>Board lens option : 2.5mm(145°), 2.9mm(120°), 4.3mm(78°), 6.0mm(54°), 8mm(39°) 12.0mm(26°), 16mm(19°)<br>Pinhole Lens Option<br>Peak Cone : 2.8mm(120°), 3.7mm(90°), 5.0mm(60°)<br>Semi Cone : 2.8mm(120°), 3.7mm(90°), 5.0mm(60°) |
| MTBF | 80,000 hours |
| Operating temp./Humidity | -10℃ ~ 50℃ (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | Refer to dimensions |
| Weight (Approx.g) | 180 |

## Key Features

- 1/3" Sony 960H Double Scan Super HAD CCD II
- Super High Resolution of 650TVL at Day / 700TVL at Night
- Super WDR(WDR+ATR)
- 2D/3D DNR (Digital Noise Reduction)
- Excellent color reproduction
- Reverse polarity power input protection built-in
- 12VDC
- IP67 Weatherproof

## Dimension



# VB21S

## WDR Mini Bullet Camera



VB21S-W36



VB21S-B36



VB21S-P37P



VB21S-P37C



VB21S-H36



VB21S-R36

600 TVL | WDR | 2D + 3D

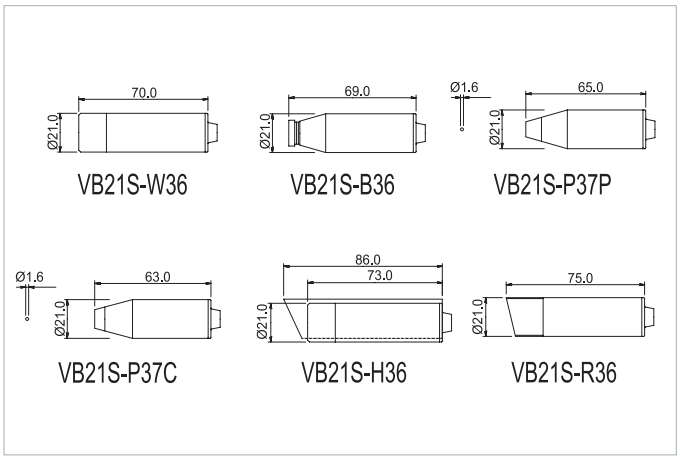
## Special Features

- World's smallest with WDR and 2D/3D DNR
- User-friendly housing mechanism makes a wide range of different focal lens interchangeable
- Compact design offers world's best video quality like standard camera

## General Features

- Super Wide Dynamic
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- DIS(Digital Image Stabilizer)
- IP67 Weatherproof
- 12VDC

## Dimension




| MODEL | VB21S |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.2(Sens-up Off), 0.0001Lux at F1.2(Sens-up, x 512) |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 120mA |
| MTBF | 80,000 hours |
| Lens | Board lens : 3.6mm(92°)<br>Board lens option : 2.5mm(145°), 2.9mm(120°), 4.3mm(78°), 6.0mm(54°), 8mm(39°) 12.0mm(26°), 16mm(19°)<br>Pinhole Lens Option<br>Peak Cone : 2.8mm(130°), 3.7mm(90°), 5.0mm(78°)<br>Semi Cone : 2.8mm(130°), 3.7mm(90°), 5.0mm(78°) |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | Refer to dimensions |
| Weight (Approx.g) | 180 |

| Function | |
|---|---|
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.30 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

# VB21EH

## 650TVL Mini Bullet Camera



VB21EH-W36



VB21EH-B36



VB21EH-P37P



VB21EH-P37C



VB21EH-H36



VB21EH-R36

650 TVL | ATR | 2D

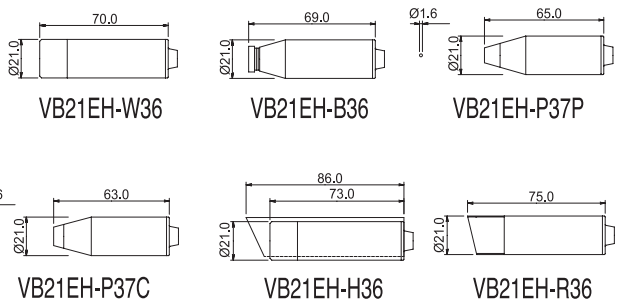
### Key Features of Effio-E

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)

### Key Features of VB21EH

- Digital Day & Night
- 12VDC

### Dimension




| MODEL | VB21EH |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines<br>PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color)/ 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 100mA |
| Lens | VB21EH-H : 3.6mm/ 4.3mm/ 6mm/ 8mm/ 12mm/ 16mm<br>VB21EH-R: 3.6mm/ 4.3mm/ 6mm/ 8mm/ 12mm/ 16mm<br>VB21EH-W : 2.9mm/ 3.6mm/ 4.3mm/ 6mm/ 8mm/ 12mm/ 16mm<br>VB21EH-B : 2.9mm/ 3.6mm/ 4.3mm/ 6mm/ 8mm/ 12mm/ 16mm/ 25mm<br>VB21EH-PP : 2.8mm/ 3.7mm/ 5.0mm Full cone pinhole lens<br>VB21EH-PC: 2.8mm/ 3.7mm/ 5.0mm Semi cone pinhole lens |
| MTBF | 80,000 hours |
| Iris Control | Electronic |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| IR Rating | VB21EH-H/R/W : 67 |
| Measurement (mm) | Refer to dimensions |
| Weight (Approx. g) | 200/VB21EH-H/R, 180/VB21EH-B/PP/PC |

# VQ33S

## WDR Miniature Camera


VQ33S-W36


VQ33S-VF


VQ33S-B36


VQ33S-P37P


VQ33S-P37C

600 TVL | WDR | 2D + 3D

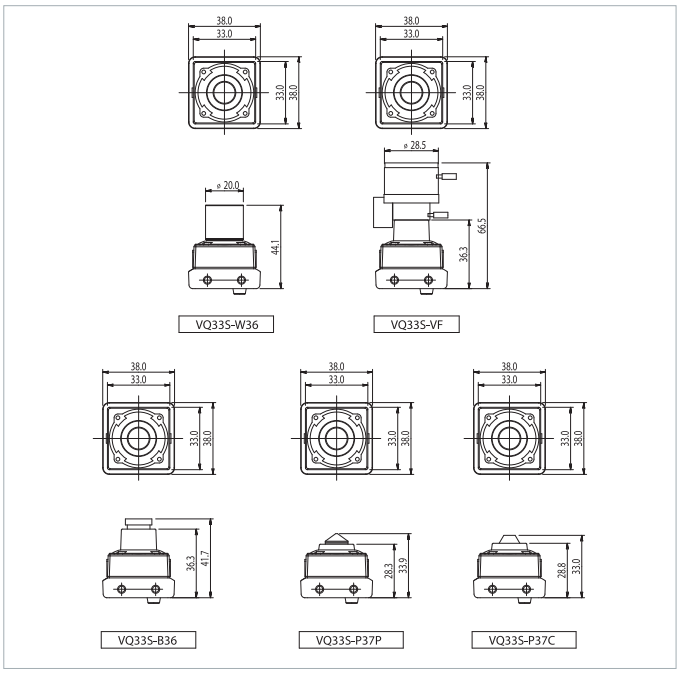
## Special Features

- World's smallest with WDR and 2D/3D DNR
- User-friendly housing mechanism makes a wide range of different focal lens interchangeable
- Compact design offers world's best video quality like standard camera

## General Features

- Super Wide Dynamic
- 600TVL(Day)/650TVL(Night)
- Motion Detection
- Highlight Eclipse
- IP67 Weatherproof
- 2D/3DNR(Noise Reduction)
- DIS(Digital Image Stabilizer)
- RS-485 Interface(Pelco-D)
- 12VDC

## Dimension




| MODEL | VQ33S |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.2(Sens-up Off), 0.0001Lux at F1.2(Sens-up, x 512) |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 120mA |
| MTBF | 80,000 hours |
| Lens | Board lens : 3.6mm(92°)<br>Board lens option : 2.5mm(145°), 2.9mm(120°), 4.3mm(78°), 6.0mm(54°), 8mm(39°) 12.0mm(26°), 16mm(19°)<br>Pinhole Lens Option<br>Peak Cone : 2.8mm(130°), 3.7mm(90°), 5.0mm(78°)<br>Semi Cone : 2.8mm(130°), 3.7mm(90°), 5.0mm(78°)<br>Varifocal Lens Option<br>2.6~6mm/2.8~12mm/3.3~12mm/4~9mm/9~22mm VF lens |
| Iris Control | Auto |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | Refer to dimensions |
| Weight (Approx.g) | 150 |

| Function | |
|---|---|
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.30 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

# VQ33EH

## 650TVL Miniature Camera



VQ33EH-W36



VQ33EH-VF



VQ33EH-B36



VQ33EH-P37P



VQ33EH-P37C

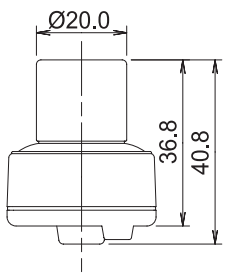
650 TVL | ATR | 2D

| MODEL | VQ33EH |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color)/ 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 100mA |
| Lens | VQ33EH-W : 2.9mm/ 3.6mm/ 4.3mm/ 6mm/ 8mm/ 12mm/ 16mm<br>VQ33EH-VFA: 4-9mm/ 2.6-6mm Manual VFLens<br>VQ33EH-B: 2.45mm/ 2.9mm/ 3.6mm/ 4.3mm/ 6mm/ 8mm/ 12mm/ 16mm<br>VQ33EH-PP : 2.8mm/ 3.7mm/ 5.0mm Full Cone Pinhole |
| MTBF | 80,000 hours |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| IP Rating | VQ33EH-W : 67 |
| Measurement (mm) | Refer to dimensions |
| Weight (Approx. g) | 150 |

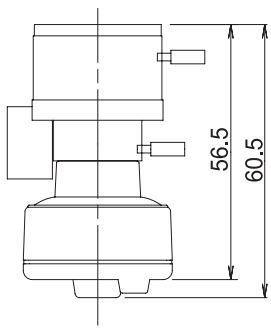
## Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- Digital Day & Night
- 12VDC

## Dimension




VQ33EH-W36




VQ33EH-VF

# VM32/38/42S

## WDR Board Camera




600 TVL | WDR | 2D + 3D

## Special Features

- Different angle range of Monofocal Board lens, Pinhole lens and 2.6~6mm, 2.8~12mm, 4~9mm, 9~22mm, 5~50mm VF Auto DC Iris or Manual lens interchangeable
- Optional IR Sensitive Mechanical Day/Night Filter System built- in
- Customized Designed can be supported

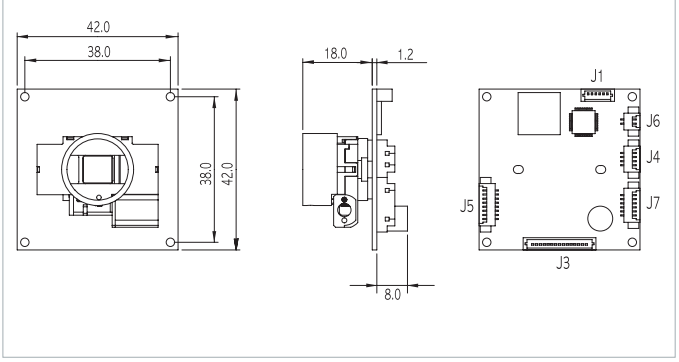
## General Features

- Super Wide Dynamic
- 600TVL(Day)/650TVL(Night)
- 2D/3DNR(Noise Reduction)
- Motion Detection
- DIS(Digital Image Stabilizer)
- Highlight Eclipse
- RS-485 Interface(Pelco-D)
- 12VDC

| MODEL | VM32/38/42S |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | 600 TV Lines(Day) / 650 TV Lines(Night) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux at F1.2(Sens-up Off), 0.0001Lux at F1.2(Sens-up, x 512) |
| Shutter Speed | NTSC:1/60~1/100,000 sec.<br>PAL:1/50~1/100,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 11,000°K Auto<br>ATW/Push Lock/Manual selectable by OSD |
| Gain Control | Standard : -6dB ~ 34dB Auto / Maximum by OSD |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 120mA |
| MTBF | 80,000 hours |
| Lens | Board lens : 3.6mm(92°)<br>Board lens option : 2.5mm(145°), 2.9mm(120°), 4.3mm(78°), 6.0mm(54°), 8mm(39°) 12.0mm(26°), 16mm(19°)<br>Varifocal Auto Iris Lens Option : 2.6~6mm/2.8~12mm/4~9mm/9~22mm/5~50mm Varifocal Lens |
| Iris Control | DC IRIS / Manual IRIS |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0%RH ~ 90%RH) |
| Measurement (mm) | Refer to dimensions |
| Weight (Approx.g) | 40 |

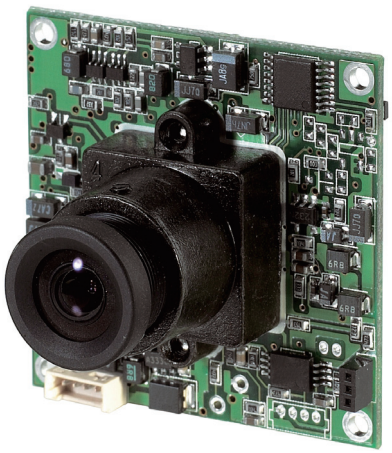
| Function | |
|---|---|
| WDR | Off / On (User selectable by OSD) |
| 2D/3DNR | Off / On (User selectable by OSD) |
| Sens-up | Off / 2x ~ 512x (DSS) |
| Motion Detection | On/Off (8 Zone setting available) |
| Digital Zoom | Off, X1 ~ X8.3 |
| White Balance | Auto (ATW) / Push Lock / User Selectable |
| Privacy Mask | Off / On (8 Zone setting available) |

## Dimension



# VM32/38/42EH

## 650TVL Board Camera



650 TVL | ATR | 2D

### Key Features

- 1/3" Sony 960H Ex-view HAD CCD II
- 650TVL(D)/ 700TVL(N)
- New Color Signal Processing for High Color Reproduction
- 2D DNR(Digital Noise Reduction)
- Digital Day & Night
- 12VDC

| MODEL | VM32/38/42EH |
|---|---|
| Image sensor | 1/3" Sony 960H Ex-view HAD CCD II |
| Effective Pixels | NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V) |
| H. Resolution | 650TV Lines(Color)/ 700TV Lines(B/W) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0.1Lux(Color)/ 0.01Lux(B/W) |
| Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White Balance | 1,800°K ~ 10,500°K Auto |
| Gain Control | Standard : -6dB ~ 44.8dB Auto |
| Smear Effect | 0.005% |
| Power source | 12VDC |
| Operating current | 120mA |
| Lens | Board lens : 3.6mm(92°)<br>Board lens option : 2.5mm(145°), 2.9mm(120°), 4.3mm(78°), 6.0mm(54°), 8mm(39°) 12.0mm(26°), 16mm(19°)<br>Varifocal Auto Iris Lens Option : 2.6~6mm/2.8~12mm/4~9mm/9~22mm/5~50mm Varifocal Lens |
| MTBF | 80,000 hours |
| Iris Control | DC IRIS / Manual IRIS |
| Operating temp./Humidity | -10°C ~ 50°C (Humidity : 0% RH ~ 90% RH) |
| Weight (Approx. g) | 40 |

*Security Innovation*

# PoC system




VISION
www.visionipvideo.com
www.visionhitech.co.kr

# VN7XEH-V50-PoC

## One Cable Transmission 50m View Night Vision Camera



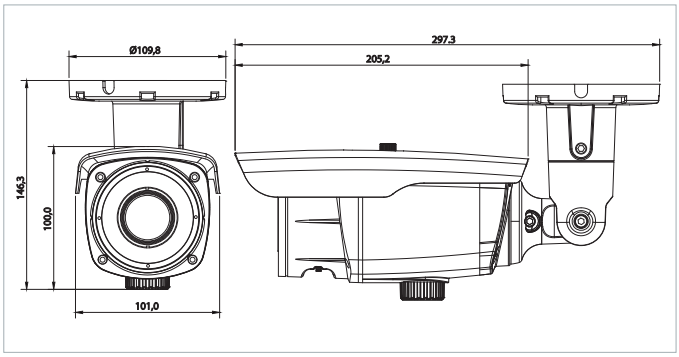

PoC ATR 2D IP 67

| MODEL | | VN7XEH-V50-PoC |
|---|---|---|
| Power source | | DC48V |
| | | 45mA(IR OFF) / 120mA(IR ON) |
| CCD | Image sensor | 1/3" SONY 960H EX-VIEW HAD CCD Ⅱ (SONY) |
| | Total Pixel | NTSC: 1020(H)X508(V)=520K Pixels<br>PAL:1020(H)X596(V)=610K Pixels |
| | Effective Pixels | NTSC:976(H)X494(V)<br>PAL:976(H)X582(V) |
| Electrical | Scanning system | NTSC 525 Lines PAL 625 Lines<br>2:1 Interlaced |
| | Synchronization | Internal |
| | H. Resolution | 560 TV Lines(Color), 600 TV Lines(B/W) |
| | S/N ratio | More than 52dB (AGC Off) |
| | Min. Illumination | 0Lux |
| | Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard γ = 0.45 |
| | White Balance | 1,800°K ~ 10,500°K Auto (ATW/ Push/ Push/ User 1/2, Anti CR, Manual) |
| | Gain Control | Standard : -6dB ~ 44.8dB Auto |
| | Smear Effect | 0.01% |
| | Viewable Distance | 50M |
| | MTBF | 20,000 hours |
| | LED Spectrum | 850nm |
| | Lens | 5-50mm Varifocal DC Auto Iris lens<br>2.8-12mm Varifocal DC Auto Iris lens |
| | Iris Control | Auto |
| | Operating temp./ Humidity | -10℃ ~ 50℃<br>(Humidity : 0% RH ~ 90% RH) |
| | IP Rating | 67 |
| | Measurement (mm) | 101(W)x108.7(H)x338(D) |
| | Weight (Approx. g) | 1200 |

## Key features

- Power Over Coaxial
- 1/3" Sony EXview HAD CCD II (960H)
- High Resolution of 560TVL at Day / 600TVL at Night
- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Easy-to-use OSD Functions
- 2DNR (2D Noise Reduction)
- Powerful Night Sensitivity
- Smart IR Compensation
- 48VDC Power Input
- IP67 Weatherproof
- Cable Concealed Thru Bracket
- External Zoom & Focus Adjustment

## Dimension



# VN6XEH-V12-PoC

## One Cable Transmission 30m View Night Vision Camera



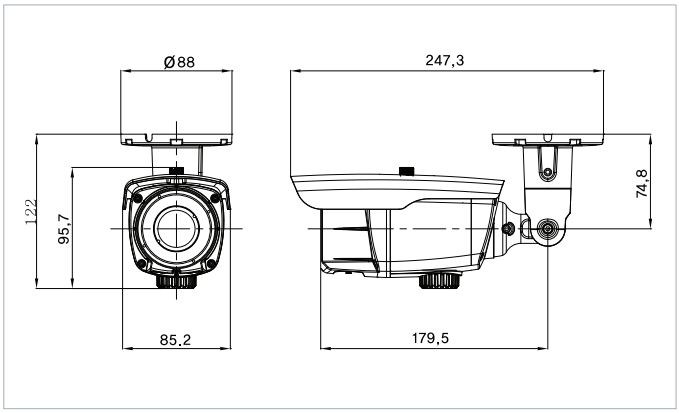

PoC ATR 2D IP 67

## Key features

- Power Over Coaxial
- 1/3" Sony EXview HAD CCD II (960H)
- High Resolution of 560TVL at Day / 600TVL at Night
- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Easy-to-use OSD Functions
- 2DNR (2D Noise Reduction)
- Powerful Night Sensitivity
- Smart IR Compensation
- 48VDC Power Input
- IP67 Weatherproof
- Cable Concealed Thru Bracket
- External Zoom & Focus Adjustment

| MODEL | | VN6XEH-V12-PoC |
|---|---|---|
| Power source | | DC48V |
| | | 45mA(IR OFF) / 130mA(IR ON) |
| CCD | Image sensor | 1/3" SONY 960H EX-VIEW HAD CCD II (SONY) |
| | Total Pixel | NTSC: 1020(H)X508(V)=520K Pixels<br>PAL:1020(H)X596(V)=610K Pixels |
| | Effective Pixels | NTSC:976(H)X494(V)<br>PAL:976(H)X582(V) |
| Electrical | Scanning system | NTSC 525 Lines PAL 625 Lines<br>2:1 Interlaced |
| | Synchronization | Internal |
| | H. Resolution | 560TV Lines(Color)/ 600TV Lines(B/W) |
| | S/N ratio | More than 52dB (AGC Off) |
| | Min. Illumination | 0Lux |
| | Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | White Balance | 1,800° K ~ 10,500° K Auto (ATW/ Push/ Push/ User 1/2, Anti CR, Manual) |
| | Gain Control | Standard : -6dB ~ 44.8dB Auto |
| | Smear Effect | 0.01% |
| | Viewable Distance | 30M |
| | MTBF | 20,000 hours |
| | LED Spectrum | 850nm |
| | Lens | 2.8-12mm Varifocal DC Auto Iris lens |
| | Iris Control | Auto |
| | IP Rating | 67 |
| | Operating temp./ Humidity | -10℃ ~ 50℃ (Humidity : 0% RH ~ 90% RH) |
| | Measurement (mm) | 87.7(W) x96(H)x278.1(D) |
| | Weight (Approx. g) | 860 |

## Dimension



# VDA110EH-V12IR-PoC

## One Cable Transmission IR Vandal SuperDome Camera




PoC ATR 2D IP 66

| MODEL | | VDA110EH-V12IR-PoC |
|---|---|---|
| Power source | | DC48V |
| | | 35mA(IR OFF) / 90mA(IR ON) |
| CCD | Image sensor | 1/3" SONY 960H EX-VIEW HAD CCD II (SONY) |
| | Total Pixel | NTSC: 1020(H)X508(V)=520K Pixels<br>PAL:1020(H)X596(V)=610K Pixels |
| | Effective Pixels | NTSC:976(H)X494(V)<br>PAL:976(H)X582(V) |
| Electrical | Scanning system | NTSC 525 Lines PAL 625 Lines<br>2:1 Interlaced |
| | Synchronization | Internal |
| | H. Resolution | 560TV Lines(Color)/ 600TV Lines(B/W) |
| | S/N ratio | More than 52dB (AGC Off) |
| | Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | White Balance | 1,800° K ~ 10,500° K Auto (ATW/ Push/ Push/ User 1/2, Anti CR, Manual) |
| | Gain Control | Standard : -6dB ~ 44.8dB Auto |
| | Smear Effect | 0.01% |
| | Viewable Distance | UP to 30M at Moonless Night |
| | MTBF | 20,000 hours |
| | Iris Control | Auto |
| | Operating temp./ Humidity | -10℃ ~ 50℃<br>(Humidity : 0% RH ~ 90% RH) |
| | Measurement (mm) | 164(Ø) x 121.5(H) |
| | Weight (Approx. g) | 2,000 |

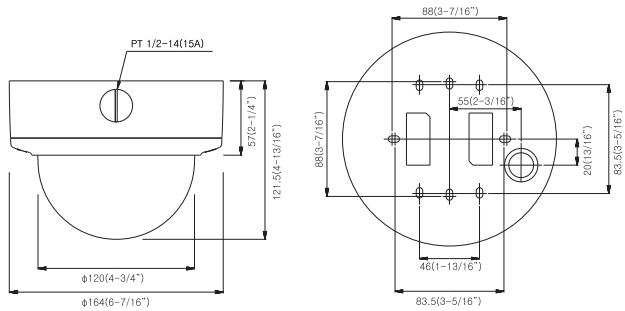
## Special Features

- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Rotatable dome cover after installation to save maintenance cost
- Additional service monitoring out
- 3-Axis structure combined with tilt-down 90 degree surveillance

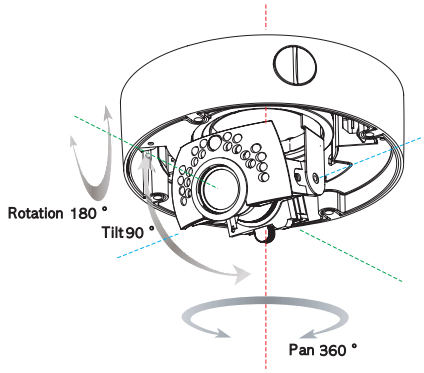
## Key Features

- Power Over Coaxial
- 1/3" Sony EXview HAD CCD II (960H)
- High Resolution of 560TVL at Day / 600TVL at Night
- 2DNR (2D Noise Reduction)
- ATR (Adaptive Tone Reproduction)
- 3.3~12mm VF DC IRIS Lens
- Easy-to-use OSD Functions
- 48VDC Power Input

## Dimension




## Perfect 3-Axis



# VDA110EH-V12DN-PoC

## One Cable Transmission True Day/Night Vandal SuperDome Camera




PoC ATR 2D IP 66

| MODEL | | VDA110EH-V12DN-PoC |
|---|---|---|
| Power source | | DC48V |
| | | 35mA |
| CCD | Image sensor | 1/3" SONY 960H EX-VIEW HAD CCD Ⅱ (SONY) |
| | Total Pixel | NTSC: 1020(H)X508(V)=520K Pixels<br>PAL:1020(H)X596(V)=610K Pixels |
| | Effective Pixels | NTSC:976(H)X494(V)<br>PAL:976(H)X582(V) |
| Electrical | Scanning system | NTSC 525 Lines PAL 625 Lines<br>2:1 Interlaced |
| | Synchronization | Internal |
| | H. Resolution | 560TV Lines(Color)/ 600TV Lines(B/W) |
| | S/N ratio | More than 52dB (AGC Off) |
| | Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard γ = 0.45 |
| | White Balance | 1,800°K ~ 10,500°K Auto<br>(ATW/ Push/ Push/ User 1/2, Anti CR, Manual) |
| | Gain Control | Standard : -6dB ~ 44.8dB Auto |
| | Smear Effect | 0.01% |
| | MTBF | 20,000 hours |
| | Iris Control | Auto |
| | Operating temp./ Humidity | -10℃ ~ 50℃<br>(Humidity : 0% RH ~ 90% RH) |
| | Measurement (mm) | 164(Ø) x 121.5(H) |
| | Weight (Approx. g) | 2,000 |

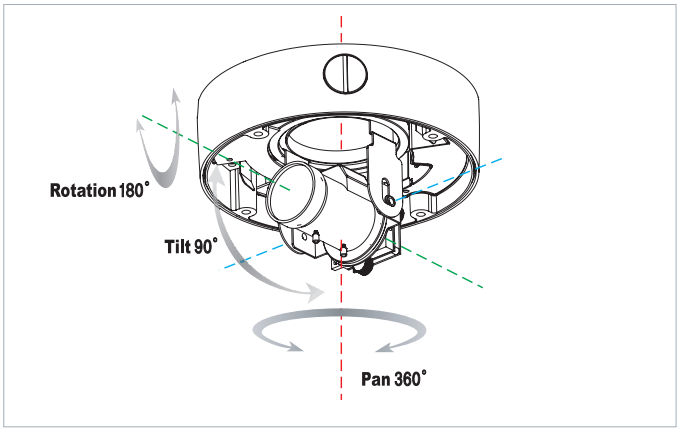
## Special features

- Rotatable dome cover after installation to save maintenance cost
- Additional service monitoring out
- 3-Axis structure combined with tilt-down 90 degree surveillance

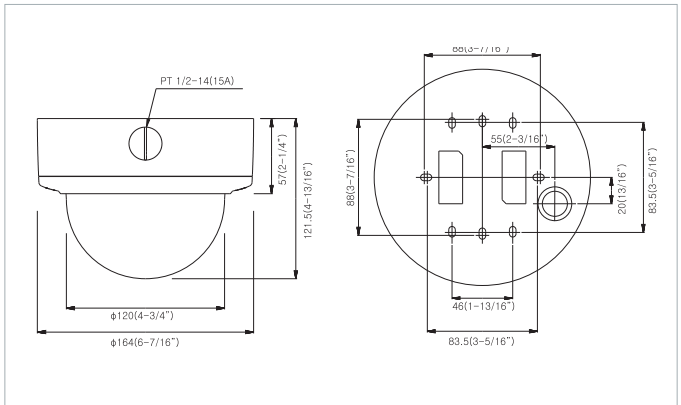
## General features

- Power Over Coaxial
- 1/3" Sony EXview HAD CCD II (960H)
- High Resolution of 560TVL at Day / 600TVL at Night
- 2DNR (2D Noise Reduction)
- ATR (Adaptive Tone Reproduction)
- 3.3~12mm VF DC IRIS Lens
- Easy-to-use OSD Functions
- 48VDC Power Input

## Perfect 3-Axis




## Dimension



# VD101EH-V12IR-PoC

## One Cable Transmission IR Indoor Dome Camera




PoC ATR 2D

| MODEL | | VD101EH-V12IR-PoC |
|---|---|---|
| Power source | | DC48V |
| | | 45mA(IR OFF) / 100mA(IR ON) |
| CCD | Image sensor | 1/3" SONY 960H EX-VIEW HAD CCD II (SONY) |
| | Total Pixel | NTSC: 1020(H)X508(V)=520K Pixels<br>PAL:1020(H)X596(V)=610K Pixels |
| | Effective Pixels | NTSC:976(H)X494(V)<br>PAL:976(H)X582(V) |
| Electrical | Scanning system | NTSC 525 Lines PAL 625 Lines<br>2:1 Interlaced |
| | Synchronization | Internal |
| | H. Resolution | 560TV Lines(Color)/ 600TV Lines(B/W) |
| | S/N ratio | More than 52dB (AGC Off) |
| | Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | White Balance | 1,800°K ~ 10,500°K Auto (ATW/ Push/ Push/ User 1/2, Anti CR, Manual) |
| | Gain Control | Standard : -6dB ~ 44.8dB Auto |
| | Smear Effect | 0.01% |
| | Viewable Distance | UP to 30M at Moonless Night |
| | MTBF | 20,000 hours |
| | Iris Control | Auto |
| | Operating temp./Humidity | -10℃ ~ 50℃<br>(Humidity : 0% RH ~ 90% RH) |
| | Measurement (mm) | 134(Ø) x 91.7(H) |
| | Weight (Approx. g) | 350g |

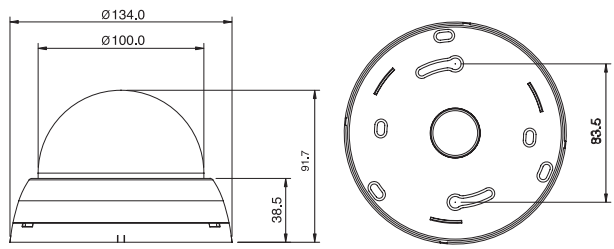
## Special Features

- Patented IIRP(Intelligent IR Protection) technology guarantees Extended IR Life Cycle
- Rotatable dome cover after installation to save maintenance cost
- 4 directional cable out inclusion guarantees concrete wall, ceiling, slope installation
- Additional service monitoring out
- 3-Axis structure combined with tilt-down 90 degree surveillance

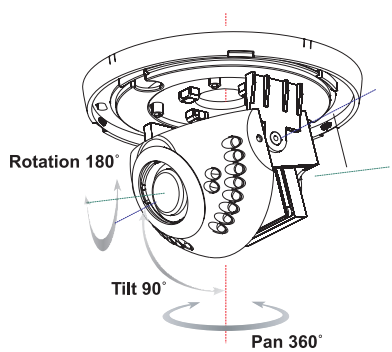
## Key Features

- Power Over Coaxial
- 1/3" Sony EXview HAD CCD II (960H)
- High Resolution of 560TVL at Day / 600TVL at Night
- 2DNR (2D Noise Reduction)
- ATR (Adaptive Tone Reproduction)
- 2.8~12mm VF DC IRIS Lens
- Easy-to-use OSD Functions
- 48VDC Power Input

## Dimension




## Perfect 3-Axis



# VD101EH-V12DN-PoC

## One Cable Transmission True Day/Night Indoor Dome Camera




PoC ATR 2D

| MODEL | | VD101EH-V12DN-PoC |
|---|---|---|
| Power source | | DC48V |
| | | 45mA |
| CCD | Image sensor | 1/3" SONY 960H EX-VIEW HAD CCD II (SONY) |
| | Total Pixel | NTSC: 1020(H)X508(V)=520K Pixels<br>PAL:1020(H)X596(V)=610K Pixels |
| | Effective Pixels | NTSC:976(H)X494(V)<br>PAL:976(H)X582(V) |
| Electrical | Scanning system | NTSC 525 Lines PAL 625 Lines<br>2:1 Interlaced |
| | Synchronization | Internal |
| | H. Resolution | 560TV Lines(Color)/ 600TV Lines(B/W) |
| | S/N ratio | More than 52dB (AGC Off) |
| | Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | White Balance | 1,800°K ~ 10,500°K Auto (ATW/ Push/ Push/ User 1/2, Anti CR, Manual) |
| | Gain Control | Standard : -6dB ~ 44.8dB Auto |
| | Smear Effect | 0.01% |
| | MTBF | 20,000 hours |
| | Iris Control | Auto |
| | Operating temp./ Humidity | -10℃ ~ 50℃ (Humidity : 0% RH ~ 90% RH) |
| | Measurement (mm) | 134(Ø) x 91.7(H) |
| | Weight (Approx. g) | 325g |

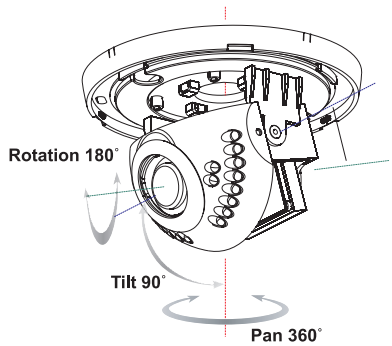
## Special features

- Rotatable dome cover after installation to save maintenance cost
- 4 directional cable out inclusion guarantees concrete wall, ceiling, slope installation
- Additional service monitoring out
- 3-Axis structure combined with tilt-down 90 degree surveillance

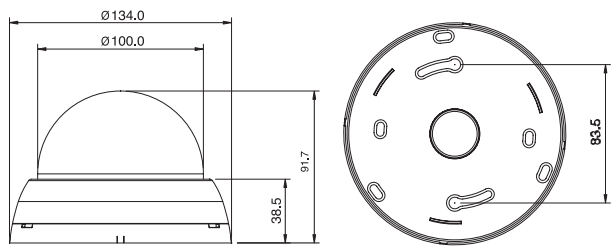
## General features

- Power Over Coaxial
- 1/3" Sony EXview HAD CCD II (960H)
- High Resolution of 560TVL at Day / 600TVL at Night
- 2DNR (2D Noise Reduction)
- ATR (Adaptive Tone Reproduction)
- 2.8~12mm VF DC IRIS Lens
- Easy-to-use OSD Functions
- 48VDC Power Input

## Perfect 3-Axis




## Dimension



# VC58EH-PoC

## One Cable Transmission True Day/Night Box Camera




PoC ATR 2D

### Special features

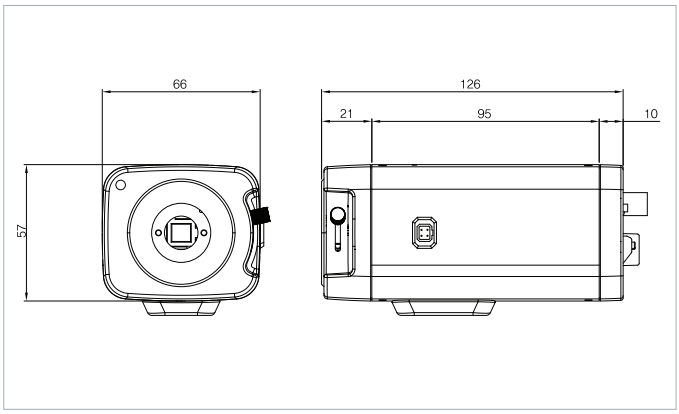
- Intelligent CDS sensor and Mechanical Day/Night dual filter system
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reglect the lux level of the subject
- C/CS and Flange-back focus adjustment lever built-in

### Key features

- Power Over Coaxial
- 1/3" Sony EXview HAD CCD II (960H)
- High Resolution of 560TVL at Day / 600TVL at Night
- 2DNR (2D Noise Reduction)
- Easy-to-use OSD Functions(Remote Control Back - on)
- Stablizer(Compensates Camera Movement)
- IR Sensitive Mechanical Day/Night Filter System Built-in
- RS-485(Pelco-D)
- 48VDC Power Input
- ATR (Adaptive Tone Reproduction)

| MODEL | | VC58EH-PoC |
|---|---|---|
| Power source | | DC48V |
| | | 35mA |
| CCD | Image sensor | 1/3" SONY 960H EX-VIEW HAD CCD II (SONY) |
| | Total Pixel | NTSC: 1020(H)X508(V)=520K Pixels<br>PAL:1020(H)X596(V)=610K Pixels |
| | Effective Pixels | NTSC:976(H)X494(V)<br>PAL:976(H)X582(V) |
| Electrical | Scanning system | NTSC 525 Lines PAL 625 Lines<br>2:1 Interlaced |
| | Synchronization | Internal |
| | H. Resolution | 560TV Lines(Color)/ 600TV Lines(B/W) |
| | S/N ratio | More than 52dB (AGC Off) |
| | Min. Illumination | 0.1Lux |
| | Shutter Speed | NTSC:1/60~1/10,000 sec.<br>PAL:1/50~1/10,000 sec. |
| | Gamma Correction | Standard $\gamma$ = 0.45 |
| | White Balance | 1,800°K ~ 10,500°K Auto (ATW/ Push/ Push/ User 1/2, Anti CR, Manual) |
| | Gain Control | Standard : -6dB ~ 44.8dB Auto |
| | Smear Effect | 0.01% |
| | MTBF | 20,000 hours |
| | Iris Control | Auto |
| | Operating temp./ Humidity | -10℃ ~ 50℃<br>(Humidity : 0% RH ~ 90% RH) |
| | Measurement (mm) | 66(W)x57(V)x126.5(L) |
| | Weight (Approx. g) | 550 |
| FUNCTION | Lens | Auto/ Manual |
| | Shutter/ AGC | Auto/ Manual |
| | White Balance | ATW /Push/ Push Lock / User 1, 2/ Anti CR/ Manual |
| | Backlight | BLC/ HLC/ Off |
| | Picture Adjust | Mirror(On/Off), Brightness, Contrast, Sharpness, HUE, Gain |
| | ATR | On/ Off |
| | Privacy Mosaic | On/Off (4 Zone setting available) |
| | Day/Night | Auto/ Color/ BW(Smart IR) |
| | NR | NR Mode/ Y Level/ C Level |
| | Camera ID | On/ Off |
| | Language | English/ Germany/ French/ Russian/ Spanish/ Portuguese/ Japanese |

### Dimension



# VPTx1

## 1CH Tx unit for One Cable Transmission

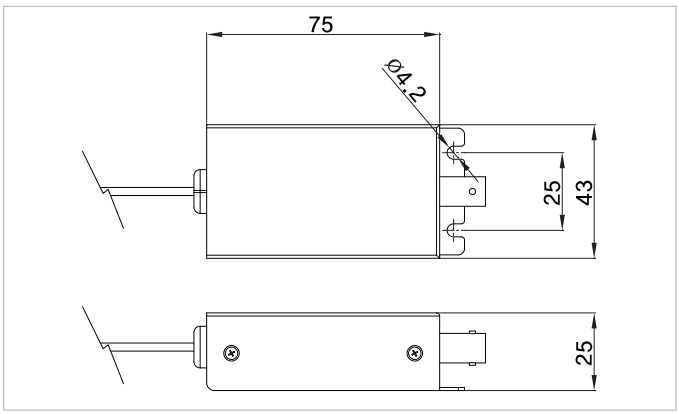



| MODEL | VPTx1 |
|---|---|
| Video Input Signal | CVBS 1.0Vp-p, 75Ω |
| Input Power | DC 48V |
| Output Power | DC 12V |
| Transmission Distance Adjustment | Auto |
| On-hold Current Consumption | Less than 15mA |
| Carrier Frequency | 11.5MHz |
| Transmission Distance (5C-HFBT base) | 300M (Max.) |
| Operation Temperature/ Humidity | -10℃ ~ +50℃/ 0 ~ 80% |
| Dimension(mm) | 43 X 83 X 25 |
| Weight | 164g |

### Key features

- This unit gets DC48V through one cable from Receiver and maintains high quality video and excellent immunit
- Power plus Video Transmission
  Power overlay video over 1 Coaxial cable
- Long Distance Video and Power transmission
  Video Transmission up to 300m with 5C-HFBT Coaxial cable
- Saving installation cost
  No need power wiring on the camera seperately
- Easy Installation
  Improving installation over 1 Coaxial cable
- Transmission Distance Adjustment
  Automatic Video Signal Transmission Distance Adjustment

### Dimension



# VPRx1

## 1CH Rx unit for One Cable Transmission




| MODEL | | VPRx1 |
|---|---|---|
| Input Power | Voltage | 43~53VDC |
| | Frequency | 47 ~ 63Hz |
| | Efficiency | 99% |
| | DC Current | 0.75A/48VDC |
| Output Power | DC Voltage | 48V |
| | Current(Max) | Max 0.75A |
| | Tolerance (V) | ±5.0% |
| Channel | Input | 1CH |
| | Output | 1CH |
| Transmission Distance Adjustment | | Auto |
| Carrier Frequency | | 11.5MHz |
| Operation Temperature/Humidity | | −10℃ ~ +50℃/ 0 ~ 80% |
| Distance (5C-HFBT Base) | | 300M (Max.) |
| Dimension (mm) | | 78(W)x80(D)x26.5(H) |
| Weight | | 130 |

## Special features

**Long Distance Transmission**

When you transmit the video from CCTV camera up to 300m over coaxial cable without our transmission system, it is not avoidable to meet many interferences, attenuations and distortions. However, if you use our PoC camera and PoC receiver (i.e. our unique coaxial transmission system), you can solve these problems immediately and can finish installation with ease and less cost.

**Video & Power**

It is not necessary to do the electric wiring job for CCTV camera's power as the receiver supplies DC12V power per channel to camera via same coaxial cable for video transmission. So, you can reduce the cabling infrastructure costs, shorten the installation period and provide the stable power to outfield cameras from the central location.

**Interference Rejection**

As the PoC transmitter inside the camera has the special feature to modulate the video signal, it can transmit video with high immunity from interference up to 300M distance. It is well applicable for the high interference places such as the industrial areas, transformer substations, arsenals, etc.

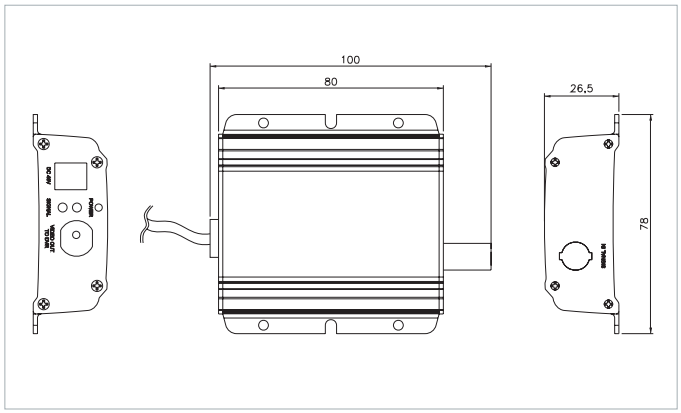
**Keep the video against the interception**

As the PoC transmitter inside the camera modulates video signal with our own code, it is impossible to intercept the original video during transmission.

## Diagnostic LED

- Red LED : Power On signal
- Yellow LED : Data transmission signal.

## Dimension



# VPRx4

## 4CH Rx unit for One Cable Transmission




| MODEL | | VPRx4 |
|---|---|---|
| Input Power | Voltage | 85~132VAC |
| | Frequency | 47 ~ 63Hz |
| | Efficiency | 86% |
| | DC Current | 2A/110VAC |
| Output Power | DC Voltage | 48V |
| | Current(Max) | Max 2.3A |
| | Tolerance (V) | ±5.0% |
| Channel | Input | 4CH |
| | Output | 4CH |
| Transmission Distance Adjustment | | Auto |
| Carrier Frequency | | 11.5MHz |
| Operation Temperature/Humidity | | −10℃ ~ +50℃/ 0 ~ 80% |
| Distance (5C-HFBT Base) | | 300M (Max.) |
| Dimension (mm) | | 204(W)x220(D)x66.6(H) |
| Weight | | 1,350 |

## Special features

**Long Distance Transmission**

When you transmit the video from CCTV camera up to 300m over coaxial cable without our transmission system, it is not avoidable to meet many interferences, attenuations and distortions. However, if you use our PoC camera and PoC receiver (i.e. our unique coaxial transmission system), you can solve these problems immediately and can finish installation with ease and less cost.

**Video & Power**

It is not necessary to do the electric wiring job for CCTV camera's power as the receiver supplies DC12V power per channel to camera via same coaxial cable for video transmission. So, you can reduce the cabling infrastructure costs, shorten the installation period and provide the stable power to outfield cameras from the central location.

**Interference Rejection**

As the PoC transmitter inside the camera has the special feature to modulate the video signal, it can transmit video with high immunity from interference up to 300M distance. It is well applicable for the high interference places such as the industrial areas, transformer substations, arsenals, etc.

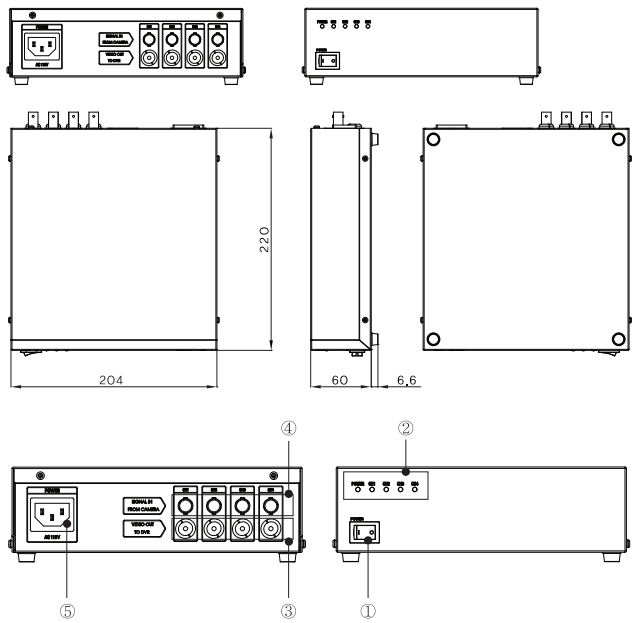
**Keep the video against the interception**

As the PoC transmitter inside the camera modulates video signal with our own code, it is impossible to intercept the original video during transmission.

## Diagnostic LED

- Red LED : Power On signal
- Green LED : Data transmission signal.

## Dimension



# VPRx8

## 8CH Rx unit for One Cable Transmission




| MODEL | | VPRx8 |
|---|---|---|
| Input Power | Voltage | 85~132VAC |
| | Frequency | 47 ~ 63Hz |
| | Efficiency | 86% |
| | DC Current | 2A/110VAC |
| Output Power | DC Voltage | 48V |
| | Current(Max) | Max 2.3A |
| | Tolerance (V) | ±5.0% |
| Channel | Input | 8CH |
| | Output | 8CH |
| Transmission Distance Adjustment | | Auto |
| Carrier Frequency | | 11.5MHz |
| Operation Temperature/Humidity | | −10℃ ~ +50℃/ 0 ~ 80% |
| Distance (5C-HFBT Base) | | 300M (Max.) |
| Dimension (mm) | | 294(W)x220(D)x66.6(H) |
| Weight | | 1,900 |

## Special features

**Long Distance Transmission**

When you transmit the video from CCTV camera up to 300m over coaxial cable without our transmission system, it is not avoidable to meet many interferences, attenuations and distortions. However, if you use our PoC camera and PoC receiver (i.e. our unique coaxial transmission system), you can solve these problems immediately and can finish installation with ease and less cost.

**Video & Power**

It is not necessary to do the electric wiring job for CCTV camera's power as the receiver supplies DC12V power per channel to camera via same coaxial cable for video transmission. So, you can reduce the cabling infrastructure costs, shorten the installation period and provide the stable power to outfield cameras from the central location.

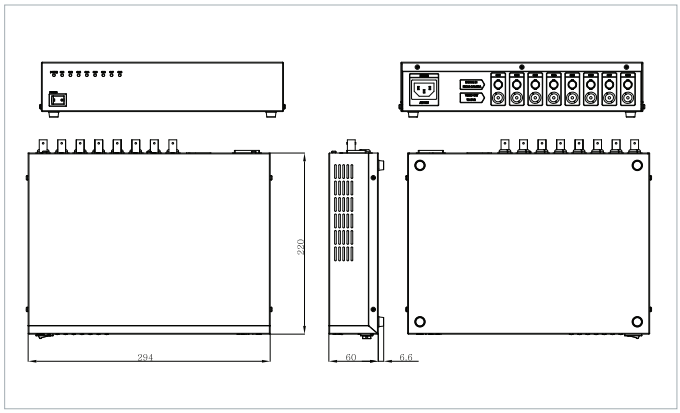
**Interference Rejection**

As the PoC transmitter inside the camera has the special feature to modulate the video signal, it can transmit video with high immunity from interference up to 300M distance. It is well applicable for the high interference places such as the industrial areas, transformer substations, arsenals, etc.

**Keep the video against the interception**

As the PoC transmitter inside the camera modulates video signal with our own code, it is impossible to intercept the original video during transmission.

## Dimension




## Diagnostic LED

- Red LED : Power On signal
- Green LED : Data transmission signal.

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# Special Camera



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# VN7XLP

## True Day/Night License Plate Capture Camera



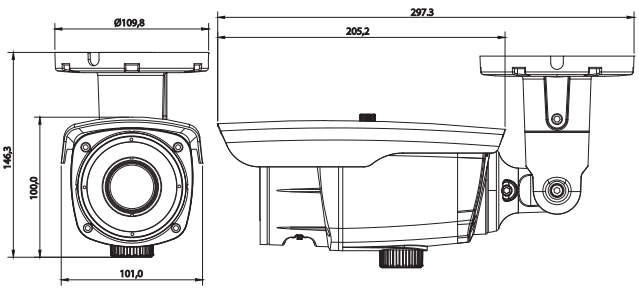

True Day/Night ICR | 12VDC 24VAC | IP 67

| MODEL | VN7XLP |
|---|---|
| Image sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | NTSC : 768(H) x 494(V)<br>PAL : 752(H) x 582(V) |
| H. Resolution | NTSC : 560TVL(D)/ 600TVL(N)<br>PAL : 580TVL(D)/620TVL(N) |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines<br>2:1 Interlaced |
| Video output | 1.0Vp-p Composite 75 Ohms |
| S/N ratio | More than 52dB (AGC Off) |
| Min. Illumination | 0 Lux |
| Shutter speed | 1/1600 sec. or 1/5000 sec. |
| Gamma correction | Standard $\gamma$ =0.45 |
| White Balance | ATW(2,000°K ~10,000°K) |
| Gain control | Standard : -6dB ~ 34dB Auto |
| Smear effect | 0.005% |
| Power source | 12VDC/24VAC |
| Operating current | 12VDC : 180mA(IR off), 520mA(IR on)<br>24VAC : 90mA(IR off), 260mA(IR on) |
| Lens | 5~50mm Varifocal DC Auto Iris lens |
| Viewable distance | 20m at Moonless Night |
| MTBF of IR | 20,000 hours |
| Iris control | DC Auto |
| Operating temp./ Humidity | -40℃~+50℃/<br>0%RH ~ 80%RH |
| Measurement(mm) | 109.8(V) x146.3(H)x297.3(D) |
| Weight(Approx.g) | 1,800 |

## Key Features

- Capture plates from Vehicles moving up to 50Km
- 5-50mm lens delivers image from 20m capture
- Automatic Shutter Speed Control of 1/1600 sec. or 1/5000 sec. by Color mode and B/W mode
- True Day/Night
- Cable managed bracket
- Operating temperature ranged of -40℃ ~ +50℃
- IP 67 Weatherproof
- 12VDC/24VAC

## Dimension



# VN70LP

## Monochrome License Plate Capture Camera




| MODEL | VN70LP |
|---|---|
| Image sensor | 1/ 3" Sony B/W Ex-View CCD |
| Effective pixel | EIA : 768 (H) X 494 (V) CCIR : 752 (H) X 582 (V) |
| H.Resolution | EIA : 600 TV Lines CCIR : 580 TV Lines |
| Synchronizing system | Internal |
| Scanning system | NTSC : 525 Lines PAL : 625 Lines 2 :1 Interlaced |
| Video output | 1.0Vp-p Composite . 75 Ohms |
| S/N ratio | 50 dB (AGC Off ) |
| Min.illumination | 0 Lux |
| Shutter Speed | 1/1,000 sec. |
| Gamma correct on | Standard $\gamma$ = 0.45 |
| Power source | 24VDC / 24VAC |
| Operating current | Normal : 180mA<br>Max : 380mA |
| IR Spectrum | 850nm-Ø8 x 14° x 14ea |
| Capture Range | 2 ~10M/16mm lens, 2 ~20M/35mm lens |
| Operating Temperature | 14°F ~ 122°F (-10°C ~ +50°C) |
| Humidity | Within 90% RH |
| Weatherproof rating | IP67 |
| Measurement (mm) | 97(W) x 90.5(V) x 256.8(L) |
| Weight (Approx.g) | 2,200 |

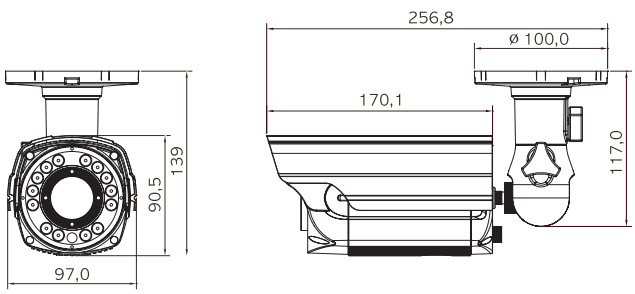
### Special Features

- Capture plates from vehicles moving up to 50Km
- 16mm lens delivers image from 10m capture
- Option : 35mm lens delivers image from 20m capture
- Extended IR LEDs life cycle and sensitivity
- IR LEDs brightness external adjustment
- Installation with existing telephone cable up to 100M long

### General Features

- 1/3" Sony B/W Ex-view CCD
- High resolution of 600TVL
- Cable concealed thru bracket
- IP67 Weatherproof
- 24VDC/24VAC Non-polarity Power Input
- 24VDC/1.9A Adaptor Inclusion

### Dimension



# VR100CNH

## Multipurpose Vehicle Camera



| MODEL | VR100CNH |
|---|---|
| Image sensor | 1/3" Super Sensitive Color CCD Sensor |
| Effective Pixels | 768(H) x 494(V).NTSC<br>752(H) x 582(V).PAL |
| H. Resolution | 520 TVL(Color) / 560 TVL(Night) |
| Min.Illumination | 0Lux |
| Synchronizing system | Internal |
| Scanning system | 2:1 Interlaced |
| Video output | 1.0 to 1.2 Vp-p Composite 75 Ohms |
| S/N ratio | More than 50dB (AGC Off) |
| Smear effect | 0.005% |
| Gamma Correction | Standard $\gamma$ = 0.45 |
| White balance | ATW(2100°K ~ 9100°K) |
| Gain control | 6dB ~ 40dB Auto |
| Lens | 2.9mm Fixed Lens(120° AOV) |
| Lens(Option) | 3.6mm(92°), 4.3mm(78°), 6mm(54°) |
| IR Distance | 10M |
| Power source | DC12V(Tolerance:9.5V ~24V) |
| Operating current | 80mA at DC12V(IR Off)/190mA at DC12V(IR On) |
| Audio | -35dB/mV |
| Operating temperature | -4°F ~ 122°F (-20°C ~ +50°C) |
| Operating Humidity | 90% RH |
| External mirror option | Mirror switch ON/OFF |
| Measurement (mm) | 60(W) x 70.3(V) x 90(L) |
| Weight (Approx.g) | 490 |

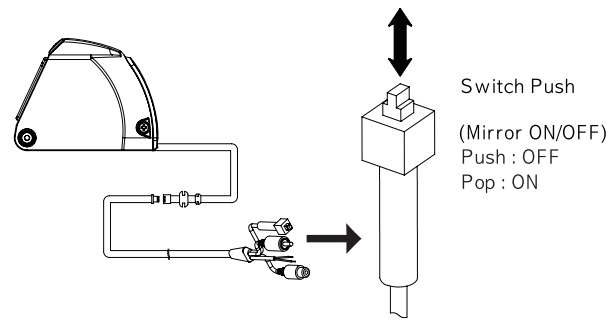
## Special Features

- Front view, Inside view, Rear view, Side view(Right/Left)
- Camera angle adjustable(Max. 30 degree)
- Mirror image on/off by external switch
- Accurate Day/Night Switching over by using lens built-in CDS sensor to reflect the lux level of the subject
- Audio with C-Mic(Option)

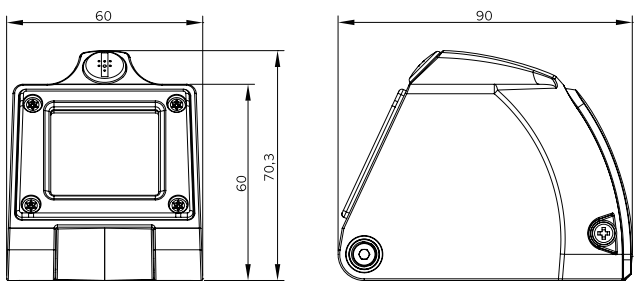
## General Features

- 1/3" Super Sensitive Color CCD sensor
- High resolution of 520TVL(Day)/560TVL(Night)
- 10M IR Beam Distance
- Excellent Back Light Compensation(BLC)
- Excellent Auto White Balance (ATW)
- Wide range of power input tolerance(9.5VDC ~ 24VDC)
- Reverse Polarity Input protection circuit built-in
- Vibration free/IP67 Weatherproof
- 12VDC

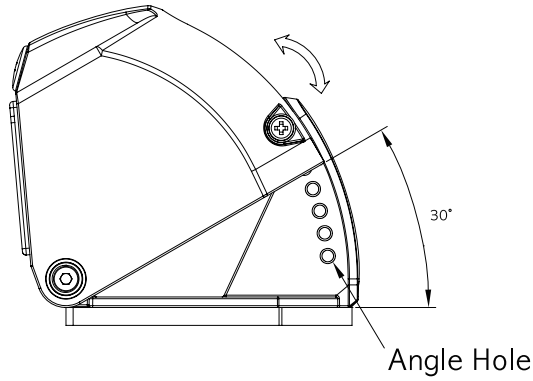
## Mirror Switch




## Dimension




## Angle Adjustment(30°)



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# D V R




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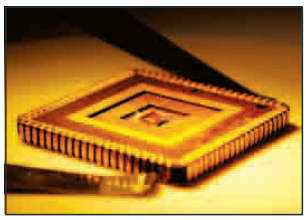
# DVR Technology

The Recording Systems provide high resolution D1 image and real-time network transmission with dual streaming. Fully-colored GUI with ordinary USB mouse operation helps user to operate the system by perception.The GUI is one of the strong features to operate the system by using USB mouse, front key buttons and IR remote controller with ease. Powerful CMS software is an unbeatable feature and makes 180 channels displayed simultaneously with 5 monitors supported on a single PC workstation

## Unbeatable System Stability

**Premium Hardware Design**

VH-Series enable users to enjoy full quad-plex operations without any delay, especially by 1.8 GHZ CPU adopted in VH16480P series like no other embedded DVRs in the market.



**Health Checking for System and HDD Status**

DVR constantly check the system status, and generates warning message and alarm sound if any abnormal situation is found. Especially for HDD status, user can get the full information such as "Capacity, Bad sector Ratio, Life time (used period) and Temperature" for instant action to prevent any loss of recorded image.



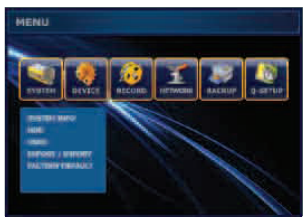
**Automatic Upgrade of DVR F/W & Remote S/W by PUSH NOTICE**

Specially-designed algorithm is constantly checking the latest version of DVR firmware and remote software on FTP server. Once found, user is alerted to upgrade the system just by one mouse-click.

## User friendliness and Convenience

**Colorful and P/C-alike GUI**

User-friendly GUI with mouse operation helps user to operate the system perception. P/C-alike GUI is one of the strong features, too.

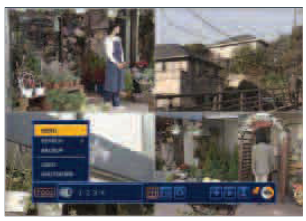



**H.264 Video & G.723.1 Audio Compression**

DVR-dedicated H.264 compression chip for H/W compression.

World best G.723.1 audio compression algorithm.

Precise synchronization of video and audio on both local and remote playback.



**Emergency and Intensive Recording**

Apart from regular recording, emergency and intensive recording feature provide users to cope with urgent situation by just one button operation.

## Real-Time Networking

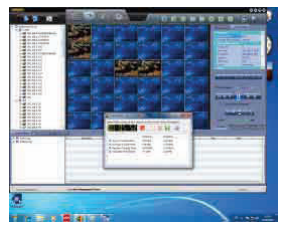
**Real-Time Transmission**

Vision DVR can transmit distortion-free images under all resolution modes at real-time speed as for as network bandwidth is allowed.




**Dual-Stream Support**

DVR simultaneously generates dual-stream images with adjustable fps and resolution (one for recording & the other for network transmission) for effective control of recording image quality and network traffic.



**Bandwidth Control Function**

DVR can control the data volume transmitted over network ranging from 25 kbps up to 100 Mbps. This function is especially under narrow bandwidth network situation or when user wants to refine "network bandwidth occupied by video transmission" to a certain level.

## Remote Management

**2G & 3G Phone Monitoring**

Vision Provides versatile mobile monitoring features. Under WAP Connection mode, user can connect to DVR by any kinds of mobile phone(2G & 3G) without installing any software on the phones. Smart phone connection through Wi-Fi or 3G is available for Windows Mobile O/S phone & Black Berry & iPhone & Google Android Phone, too.



**Scheduled Remote Backup**

User can remotely backup the massive volume of data according to scheduled program at CMS software.



Especially when the sensor is triggered, the system make₩instant network connection and stars data back

**Diversified system Control**

Vision DVR is basically controlled by IR remote controller, key buttons on front panel and ordinary USB mouse.

Additionally, keyboard controller can be used to control PTZ function and multiple DVRs simultaneously.

# DVR Technology

## CMS(Enterprise-Level Central Management Software)

Vision CMS is a powerful centralized management solution that offers users full flexibility to control the entire system over the network. User can set automatic backup schedule for effective handling of massive volume of video data, and also get the full monitoring on system status.

**Max. 180 Channel Real-Time Monitoring**

Vision CMS can monitor up to 180 channels simultaneously from anywhere in the world. A maximum 144 channels can be shown on one monitor with a wide range of screen split modes such as 1,4,9,16 and more…



**Up to 5 Monitors on a single P/C Workstation**

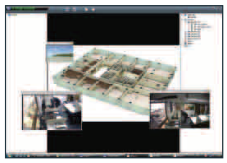
User can connect up to 5 VGA monitors on a single P/C workstation under much less CPU burden and thus effectively allocate each monitor for specific purpose.





**Cloning Features to Create a Separate Window**

Only Vision CMS is equipped with WINDOW CLONING feature which is one of the quite unique and effective tools for flexible system management, ensuring users to create up to 4 additional windows as far as system hardware is allowed.

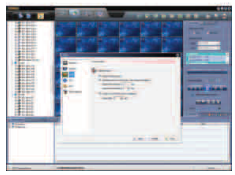


**Multi-Layer E-Map Editor**

E-Map feature is to provide graphic map information for users to over-view entire CCTV layout, ensuring efficient management of the con-nected devices over network.

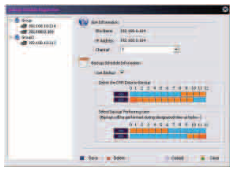
**Many More…**

System Health Check, Multiple F/W Upgrade, Various Search & Backup Modes and IP Auto-Detection for whole connected devices, ….



Auto network Connection & Instant Recording

When sensor at DVR side is triggered, network will be automatically connected between DVR and CMS P/C and then the image of sensor-triggered channel will be shown as full screen mode at CMS P/C.

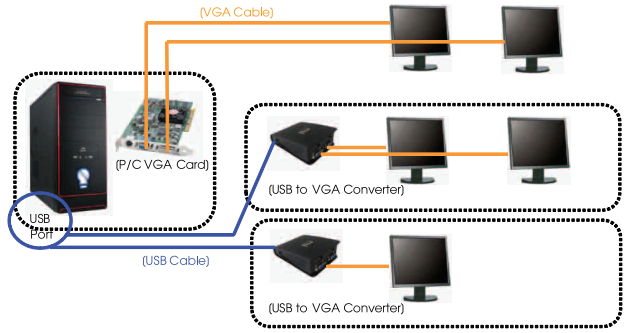


Besides, such image can be recorded at same CMS P/C according to user's setting.

**Scheduled Remote Backup**

User can backup the data of multiple DVRs to CMS P/C based on pre-defined schedule.

**How to Install 5 x Monitors without Any Additional Devices**




## MMS (Mobile-Viewer)

MMS (Mobile Viewer Software) is the mobile viewer software that allows user to view video image from the DVR on the mobile phones. By installing the corresponding MMS software on the mobile phone, user can view live video image through WAP, Wi-Fi or Dial-up Network.

## WAP Connection

WAP (Wireless Application protocol) is a system which allows device such as mobile phone to connect to the internet. If user wants to connect to the DVR especially under narrow-bandwidth network situation by sing 2G cellular phone, it is recommended to use WAP connection.

It is the most simple and convenient way for mobile viewing because there is no need to install any client software on the phone. Just type in IP address on the phone, then clear JPEG image is automatically refreshed by about 5 seconds interval depending on the network situation.

- Input the IP address on the phone with following format.
  http://DVR IP/wap/index.html (ex, http://123.123.123.123/wap/index.html)
- WAP Service is provided through web port (default: 80). If user has changed web port to 8088, then input the IP address as below.
  http://123.123.123.123:8088/wap/index.html
- If you want to connect through DDNS, you have to get "Your Domain Name" registered through public DDNS server (Please refer to www.dyndns.com for registration).

## RMS & Mac-Viewer

RMS is the windows O/S-based remote management software to be provided with all of VISION products, offering Live Monitoring, VOD Playback with Intelli-search Bar, Live & VOD Backup by AVI Format and Built-In backup player.

Mac-Viewer is the Mac O/S-based remote management software to be provided with all of VISION products, offering Live Monitoring, VOD Playback with Intelli-Search Bar, Live & VOD Backup.

# VH04120P

## 4CH Professional Embedded DVR, Full D1 Real-Time Recording & Playback, 2U Height Case

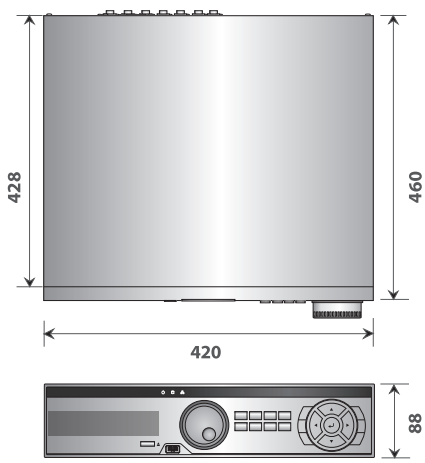


Model: VH04120P

## Features

- Automatic Upgrade of DVR F/W and Remote S/W
- POS Function up to 4 sets of POS Device
- Quick Setup to designate Recoding Period
- Emergency & intensive Recording
- Dual-Stream with Adjustable fps and Resolution
- Network Bandwidth Control(25Kbps~100Mbps)
- Mobile Viewer by WAP Connetion(2G & 3G Phones)
- Smart Phone Monitoring
  - iPhone & iPad & Black Berry & Android & Win Mobile Phone
- Help Message Pop-up just by One Mouse-Click
- Time Synchronization by NTP Server
- Support e-SATA

## Dimension




| MODEL | | VH04120P |
|---|---|---|
| Compression Algorithm | | Video : H.264, Audio :G723.1 |
| HDD Bay | | 3 x SATA HDD or 2 x SATA HDD & 1 x DVD |
| Operation System | | Embedded Linux |
| Video | Input | 4CH |
| | Loop out | Built-in |
| Video Mode | | NTSC/PAL Selectable |
| Display Speed(NTSC/PAL) | | 120/100 fps |
| Video-Out (Monitor) | | 2 x Main Monitor (Composite & DVI) & 1 x Spot Monitor (Composite) |
| Recording Speed (NTSC/PAL) | 352x240/288(CIF) | 120/100 fps |
| | 720x240/288 (Half D1) | 120/100 fps |
| | 720x480/576(D1) | 120/100 fps |
| Recording Resolution | | NTSC : 352x240, 720x240, 720x480, PAL : 352x288, 720x288, 720x576 |
| Recording Mode | | Continuous, Scheduled, Sensor-Activated & Motion Detection Recording Pre & Post Alarm Recording,Emergency Recording, Quick Backup |
| Playback & Search | Speed | x1, x2, x4, x8, x16, x32 |
| | Playback Channel | 1, 4, 9 & 16 Ch Real-Time Playback at CIF (30/25 fps per Ch) |
| | Function | Intelli-Search by Time Bar, Calendar (Date & Time) and Event/System Search |
| Audio Input / Output | | 4 Ch Input / 1 Ch Output |
| Alarm Input / Relay Output | | 4 Ch / 4 Ch |
| P/T/Z Control and Port | | Virtual Joy-Stick Control on screen by Mouse / Pan/Tilt/Zoom/Focus/Iris, RS-485 Port |
| LAN | | Gigabit Ethernet (RJ45), Fixed IP, DHCP & DDNS |
| Remote Management | Software | CMS (CentralManager S/W) & MMS (Mobile Viewer) & MacViewer (S/W for Mac OS) |
| | Web (IE) | Live Monitoring, Playback & System Configuration |
| Backup Device | Internal | DVD Burner (Option) |
| | External | Local Backup by USB ODD and Network Backup by CMS |
| System Recovery after Power Failure | | Auto-Reboot and Journaling File System |
| Advanced Functions | | 1) Firmware Upgrade by USB & CMS over Network<br>2) Automatic Upgrade of DVR F/W and Remote S/W from FTP Server<br>3) Import & Export of Setting Value, Water-Mark, AVI File Backup<br>4) Quick Setup to designate Recording Period<br>5) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)<br>6) Warning Alarm for System Over-Temperature<br>7) Help Message for easy setup & Multi-Language support |
| POS | | Text-in Based (RS232, USB to Serial support, Ethernet) / Display POS Data on Live & Playback |
| e-SATA | | External Storage Device Support (SATA Raid Controller) |
| System Operation | | Front Button, IR Remote Controller, USB Mouse, Keyboard (Option |
| Power | | 12V x 5A D/C |
| Operating Temperature and Humidity | | 5~40℃ / 20~80% RH |
| Dimension (WxDxH) | | 420 x 428 x 88 (mm) |

# VH0460S

## 4CH Special Embedded DVR, HD1 Real-Time Recording & Playback, 1.5U Height Case

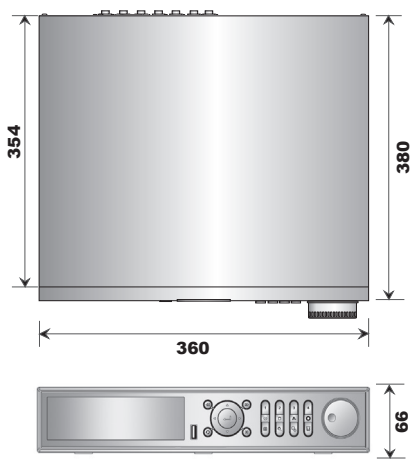


Model: VH0460S

## Features

- Automatic Upgrade of DVR F/W and Remote S/W
- POS Function up to 4 sets of POS Device
- Quick Setup to designate Recoding Period
- Emergency & intensive Recording
- Dual-Stream with Adjustable fps and Resolution
- Network Bandwidth Control(25Kbps~100Mbps)
- Mobile Viewer by WAP Connetion(2G & 3G Phones)
- Smart Phone Monitoring
  - iPhone & iPad & Black Berry & Android & Win Mobile Phone
- Help Message Pop-up just by One Mouse-Click
- Time Synchronization by NTP Server

## Dimension




| MODEL | | VH0460S |
|---|---|---|
| Compression Algorithm | | Video : H.264, Audio :G723.1 |
| HDD Bay | | 2 x SATA HDD or 1 x SATA HDD & 1 x DVD |
| Operation System | | Embedded Linux |
| Video | Input | 4CH |
| | Loop out | Not Available |
| Video Mode | | NTSC/PAL Selectable |
| Display Speed(NTSC/PAL) | | 120/100 fps |
| Video-Out (Monitor) | | 2 x Main Monitor (Composite & VGA) & 1 x Spot Monitor (Composite) |
| Recording Speed (NTSC/PAL) | 352x240/288(CIF) | 120/100 fps |
| | 720x240/288 (Half D1) | 120/100 fps |
| | 720x480/576(D1) | 60/50 fps |
| Recording Resolution | | NTSC : 352x240, 720x240, 720x480, |
| | | PAL : 352x288, 720x288, 720x576 |
| Recording Mode | | Continuous, Scheduled, Sensor-Activated & Motion Detection Recording Pre & Post Alarm Recording, Emergency Recording, Quick Backup |
| Playback & Search | Speed | x1, x2, x4, x8, x16, x32 |
| | Playback Channel | 1, 4, 9 & 16 Ch Real-Time Playback at CIF (30/25 fps per Ch) |
| | Function | Intelli-Search by Time Bar, Calendar (Date & Time) and Event/System Search |
| Audio Input / Output | | 1 Ch Input / 1 Ch Output |
| Alarm Input / Relay Output | | 4 Ch / 1 Ch |
| P/T/Z Control and Port | | Virtual Joy-Stick Control on screen by Mouse / Pan/Tilt/Zoom/Focus/Iris, RS-485 Port |
| LAN | | 10/100 Base-Tx Ethernet (RJ45), Fixed IP, DHCP & DDNS |
| Remote Management | Software | CMS (CentralManager S/W) & MMS (Mobile Viewer) & MacViewer (S/W for Mac OS) |
| | Web (IE) | Live Monitoring ,Playback & System Configuration |
| Backup Device | Internal | DVD Burner (Option) |
| | External | Local Backup by USB ODD and Network Backup by CMS |
| System Recovery after Power Failure | | Auto-Reboot and Journaling File System |
| Advanced Functions | | 1) Firmware Upgrade by USB & CMS over Network<br>2) Automatic Upgrade of DVR F/W and Remote S/W from FTP Server<br>3) Import & Export of Setting Value, Water-Mark, AVI File Backup<br>4) Quick Setup to designate Recording Period<br>5) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)<br>6) Warning Alarm for System Over-Temperature<br>7) Help Message for easy setup & Multi-Language support |
| POS | | Text-in Based (RS232, USB to Serial support, Ethernet) / Display POS Data on Live & Playback |
| System Operation | | Front Button, IR Remote Controller, USB Mouse, Keyboard(Option) |
| Power | | 12V x 5A D/C |
| Operating Temperature and Humidity | | 5~40℃ / 20~80% RH |
| Dimension (WxDxH) | | 360 x 380 x 66 (mm) |

# VH0430E

## 4CH Economy Embedded DVR, CIF Real-Time Record & Playback, 1U Height Case

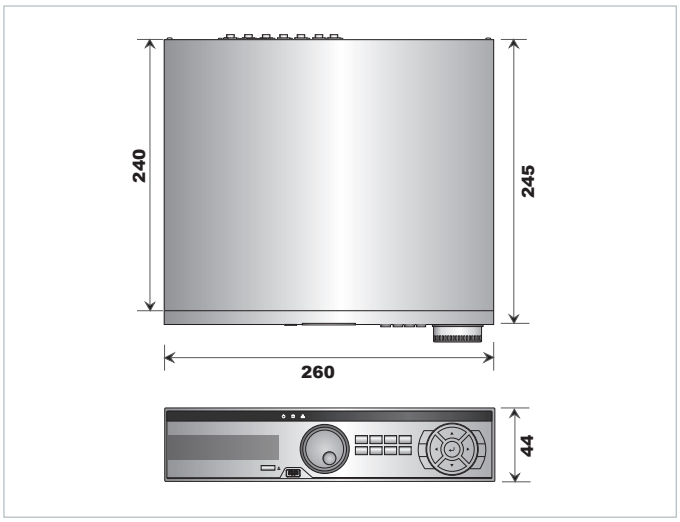



Model: VH0430E

## Features

- Automatic Upgrade of DVR F/W and Remote S/W
- Quick Setup to designate Recoding Period
- Emergency & intensive Recording
- Dual-Stream with Adjustable fps and Resolution
- Network Bandwidth Control(25Kbps~100Mbps)
- Mobile Viewer by WAP Connetion(2G & 3G Phones)
- Smart Phone Monitoring
  - iPhone & iPad & Black Berry & Android & Win Mobile Phone
- Help Message Pop-up just by One Mouse-Click
- Time Synchronization by NTP Server

## Dimension




| MODEL | | VH0430E |
|---|---|---|
| Compression Algorithm | | Video : H.264, Audio :G723.1 |
| HDD Bay | | 1 x SATA HDD |
| Operation System | | Embedded Linux |
| Video | Input | 4CH |
| | Loop out | Not Available |
| Video Mode | | NTSC/PAL Selectable |
| Display Speed(NTSC/PAL) | | 120/100 fps |
| Video-Out (Monitor) | | Main Monitor (Composite) & VGA Monitor |
| Recording Speed (NTSC/PAL) | 352x240/288(CIF) | 120/100 fps |
| | 720x240/288 (Half D1) | 60/50 fps |
| | 720x480/576(D1) | 30/25 fps |
| Recording Resolution | | NTSC : 352x240, 720x240, 720x480, PAL : 352x288, 720x288, 720x576 |
| Recording Mode | | Continuous, Scheduled, Motion Detection Recording<br>Emergency Recording, Quick Backup |
| Playback & Search | Speed | x1, x2, x4, x8, x16, x32 |
| | Playback Channel | 1, 4, 8 Ch Real-Time Playback at CIF (30/25 fps per Ch) |
| | Function | Intelli-Search by Time Bar, Calendar (Date & Time) and Event/System Search |
| Audio Input / Output | | 1 Ch Input / 1 Ch Output |
| LAN | | Gigabit Ethernet (RJ45), Fixed IP, DHCP & DDNS |
| Remote Management | Software | CMS (CentralManager S/W) & MMS (Mobile Viewer) & MacViewer (S/W for Mac OS) |
| | Web (IE) | Live Monitoring, Playback & System Configuration |
| Backup Device | Internal | DVD Burner (Option) |
| | External | Local Backup by USB ODD and Network Backup by CMS |
| System Recovery after Power Failure | | Auto-Reboot and Journaling File System |
| Advanced Functions | | 1) Firmware Upgrade by USB & CMS over Network<br>2) Automatic Upgrade of DVR F/W and Remote S/W from FTP Server<br>3) Import & Export of Setting Value, Water-Mark, AVI File Backup<br>4) Quick Setup to designate Recording Period<br>5) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)<br>6) Warning Alarm for System Over-Temperature<br>7) Help Message for easy setup & Multi-Language support |
| System Operation | | Front Button, IR Remote Controller, USB Mouse, Keyboard(Option) |
| Power | | 12V x 3A D/C |
| Operating Temperature and Humidity | | 5~40℃ / 20~80% RH |
| Dimension (WxDxH) | | 1U Height 260 x 245 x 44 (mm) |

# VH08240P

## 8CH Professional Embedded DVR, Full D1 Real-Time Record & Playback, 2U Height Case

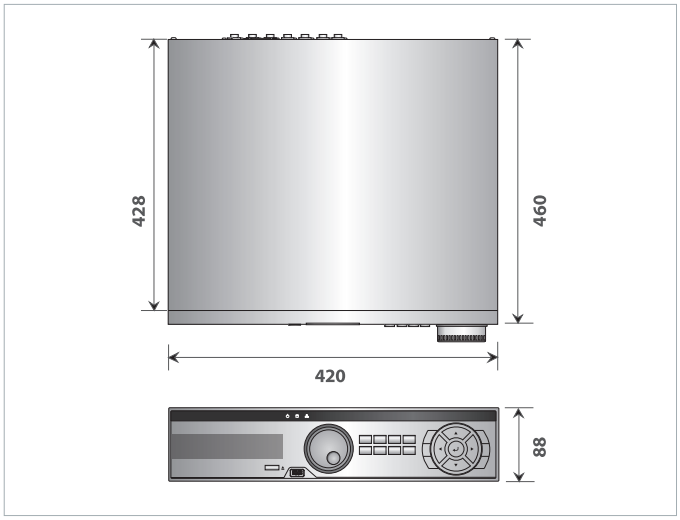


Model: VH08240P

## Features

- Automatic Upgrade of DVR F/W and Remote S/W
- POS Function up to 4 sets of POS Device
- Quick Setup to designate Recoding Period
- Emergency & intensive Recording
- Dual-Stream with Adjustable fps and Resolution
- Network Bandwidth Control(25Kbps~100Mbps)
- Mobile Viewer by WAP Connetion(2G & 3G Phones)
- Smart Phone Monitoring
  - iPhone & iPad & Black Berry & Android & Win Mobile Phone
- Help Message Pop-up just by One Mouse-Click
- Time Synchronization by NTP Server
- Support e-SATA

## Dimension




| MODEL | | VH08240P |
|---|---|---|
| Compression Algorithm | | Video : H.264, Audio :G723.1 |
| HDD Bay | | 4 x SATA HDD or 3 x SATA HDD & 1 x DVD |
| Operation System | | Embedded Linux |
| Video | Input | 8CH |
| | Loop out | Built-in |
| Video Mode | | NTSC/PAL Selectable |
| Display Speed(NTSC/PAL) | | 240/200 fps |
| Video -Out (Monitor) | | 2 x Main Monitor (Composite & DVI) & 1 x Spot Monitor (Composite) |
| Recording Speed (NTSC/PAL) | 352x240/288(CIF) | 240/200 fps |
| | 720x240/288 (Half D1) | 240/200 fps |
| | 720x480/576(D1) | 240/200 fps |
| Recording Resolution | | NTSC : 352x240, 720x240, 720x480, PAL : 352x288, 720x288, 720x576 |
| Recording Mode | | Continuous, Scheduled, Sensor-Activated & Motion Detection Recording Pre & Post Alarm Recording, Emergency Recording, Quick Backup |
| Playback & Search | Speed | x1, x2, x4, x8, x16, x32 |
| | Playback Channel | 1, 4, 9 & 16 Ch Real-Time Playback at CIF (30/25 fps per Ch) |
| | Function | Intelli-Search by Time Bar, Calendar (Date & Time) and Event/System Search |
| Audio Input / Output | | 4 Ch Input / 1 Ch Output |
| Alarm Input / Relay Output | | 8 Ch / 4 Ch |
| P/T/Z Control and Port | | Virtual Joy-Stick Control on screen by Mouse / Pan/Tilt/Zoom/Focus/Iris, RS-485 Port |
| LAN | | Gigabit Ethernet (RJ45), Fixed IP, DHCP & DDNS |
| Remote Management | Software | CMS (CentralManager S/W) & MMS (Mobile Viewer) & MacViewer (S/W for Mac OS) |
| | Web (IE) | Live Monitoring, Playback & System Configuration |
| Backup Device | Internal | DVD Burner (Option) |
| | External | Local Backup by USB ODD and Network Backup by CMS |
| System Recovery after Power Failure | | Auto-Reboot and Journaling File System |
| Advanced Functions | | 1) Firmware Upgrade by USB & CMS over Network<br>2) Automatic Upgrade of DVR F/W and Remote S/W from FTP Server<br>3) Import & Export of Setting Value, Water-Mark, AVI File Backup<br>4) Quick Setup to designate Recording Period<br>5) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)<br>6) Warning Alarm for System Over-Temperature<br>7) Help Message for easy setup & Multi-Language support |
| POS | | Text-in Based (RS232, USB to Serial support, Ethernet) / Display POS Data on Live & Playback |
| e-SATA | | External Storage Device Support (SATA Raid Controller) |
| System Operation | | Front Button, IR Remote Controller, USB Mouse, Keyboard (Option) |
| Power | | 12V x 7A D/C |
| Operating Temperature and Humidity | | 5~40℃ / 20~80% RH |
| Dimension (WxDxH) | | 420 x 428 x 88 (mm) |

# VH0860S

## 8CH Special Embedded DVR, CIF Real-Time Record & Playback, 1.5U Height Case

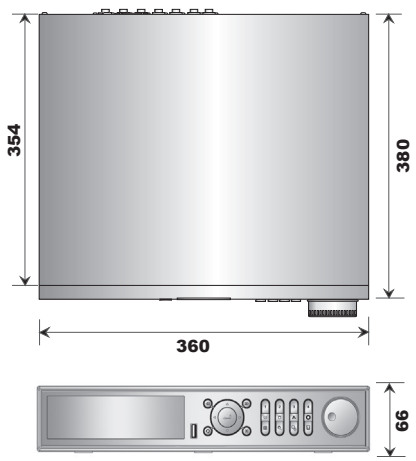


Model: VH0860S

## Features

- Automatic Upgrade of DVR F/W and Remote S/W
- POS Function up to 4 sets of POS Device
- Quick Setup to designate Recoding Period
- Emergency & intensive Recording
- Dual-Stream with Adjustable fps and Resolution
- Network Bandwidth Control(25Kbps~100Mbps)
- Mobile Viewer by WAP Connetion(2G & 3G Phones)
- Smart Phone Monitoring
  - iPhone & iPad & Black Berry & Android & Win Mobile Phone
- Help Message Pop-up just by One Mouse-Click
- Time Synchronization by NTP Server

## Dimension




| MODEL | | VH0860S |
|---|---|---|
| Compression Algorithm | | Video : H.264, Audio :G723.1 |
| HDD Bay | | 2 x SATA HDD or 1 x SATA HDD & 1 x DVD |
| Operation System | | Embedded Linux |
| Video | Input | 8CH |
| | Loop out | Not Available |
| Video Mode | | NTSC/PAL Selectable |
| Display Speed(NTSC/PAL) | | 240/200 fps |
| Video-Out (Monitor) | | 2 x Main Monitor (Composite & VGA) & 1 x Spot Monitor (Composite) |
| Recording Speed (NTSC/PAL) | 352x240/288(CIF) | 240/200 fps |
| | 720x240/288 (Half D1) | 120/100 fps |
| | 720x480/576(D1) | 60/50 fps |
| Recording Resolution | | NTSC : 352x240, 720x240, 720x480, PAL : 352x288, 720x288, 720x576 |
| Recording Mode | | Continuous, Scheduled, Sensor-Activated & Motion Detection Recording Pre & Post Alarm Recording, Emergency Recording, Quick Backup |
| Playback & Search | Speed | x1, x2, x4, x8, x16, x32 |
| | Playback Channel | 1, 4, 9 & 16 Ch Real-Time Playback at CIF (30/25 fps per Ch) |
| | Function | Intelli-Search by Time Bar, Calendar (Date & Time) and Event/System Search |
| Audio Input / Output | | 1 Ch Input / 1 Ch Output |
| Alarm Input / Relay Output | | 4 Ch / 1 Ch |
| P/T/Z Control and Port | | Virtual Joy-Stick Control on screen by Mouse / Pan/Tilt/Zoom/Focus/Iris, RS-485 Port |
| LAN | | 10/100 Base-Tx Ethernet (RJ45), Fixed IP, DHCP & DDNS |
| Remote Management | Software | CMS (CentralManager S/W) & MMS (Mobile Viewer) & MacViewer (S/W for Mac OS) |
| | Web (IE) | Live Monitoring, Playback & System Configuration |
| Backup Device | Internal | DVD Burner (Option) |
| | External | Local Backup by USB ODD and Network Backup by CMS |
| System Recovery after Power Failure | | Auto-Reboot and Journaling File System |
| Advanced Functions | | 1) Firmware Upgrade by USB & CMS over Network<br>2) Automatic Upgrade of DVR F/W and Remote S/W from FTP Server<br>3) Import & Export of Setting Value, Water-Mark, AVI File Backup<br>4) Quick Setup to designate Recording Period<br>5) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)<br>6) Warning Alarm for System Over-Temperature<br>7) Help Message for easy setup & Multi-Language support |
| POS | | Text-in Based (RS232, USB to Serial support, Ethernet) / Display POS Data on Live & Playback |
| System Operation | | Front Button, IR Remote Controller, USB Mouse, Keyboard(Option) |
| Power | | 12V x 5A D/C |
| Operating Temperature and Humidity | | 5~40℃ / 20~80% RH |
| Dimension (WxDxH) | | 360 x 380 x 66 (mm) |

# VH0830E

## 8CH Economy Embedded DVR, CIF Real-Time Record & Playback, 1U Height Case

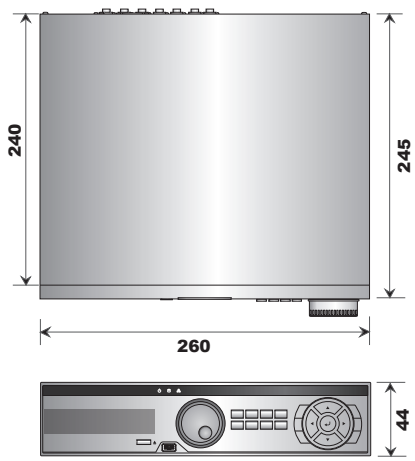



Model: VH0830E

## Features

- Automatic Upgrade of DVR F/W and Remote S/W
- Quick Setup to designate Recoding Period
- Emergency & intensive Recording
- Dual-Stream with Adjustable fps and Resolution
- Network Bandwidth Control(25Kbps~100Mbps)
- Mobile Viewer by WAP Connetion(2G & 3G Phones)
- Smart Phone Monitoring
  - iPhone & iPad & Black Berry & Android & Win Mobile Phone
- Help Message Pop-up just by One Mouse-Click
- Time Synchronization by NTP Server

## Dimension




| MODEL | | VH0830E |
|---|---|---|
| Compression Algorithm | | Video : H.264, Audio :G723.1 |
| HDD Bay | | 1 x SATA HDD |
| Operation System | | Embedded Linux |
| Video | Input | 8CH |
| | Loop out | Not Available |
| Video Mode | | NTSC/PAL Selectable |
| Display Speed(NTSC/PAL) | | 240/200 fps |
| Video -Out (Monitor) | | Main Monitor (Composite) & VGA Monitor |
| Recording Speed (NTSC/PAL) | 352x240/288(CIF) | 240/200 fps |
| | 720x240/288 (Half D1) | 120/100 fps |
| | 720x480/576(D1) | 60/50 fps |
| Recording Resolution | | NTSC : 352x240, 720x240, 720x480, PAL : 352x288, 720x288, 720x576 |
| Recording Mode | | Continuous, Scheduled, Motion Detection Recording Emergency Recording, Quick Backup |
| Playback & Search | Speed | x1, x2, x4, x8, x16, x32 |
| | Playback Channel | 1, 4, 8 Ch Real-Time Playback at CIF (30/25 fps per Ch) |
| | Function | Intelli-Search by Time Bar, Calendar (Date & Time) and Event/System Search |
| Audio Input / Output | | 1 Ch Input / 1 Ch Output |
| LAN | | Gigabit Ethernet (RJ45), Fixed IP, DHCP & DDNS |
| Remote Management | Software | CMS (CentralManager S/W) & MMS (Mobile Viewer) & MacViewer (S/W for Mac OS) |
| | Web (IE) | Live Monitoring, Playback & System Configuration |
| Backup Device | Internal | DVD Burner (Option) |
| | External | Local Backup by USB ODD and Network Backup by CMS |
| System Recovery after Power Failure | | Auto-Reboot and Journaling File System |
| Advanced Functions | | 1) Firmware Upgrade by USB & CMS over Network<br>2) Automatic Upgrade of DVR F/W and Remote S/W from FTP Server<br>3) Import & Export of Setting Value, Water-Mark, AVI File Backup<br>4) Quick Setup to designate Recording Period<br>5) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)<br>6) Warning Alarm for System Over-Temperature<br>7) Help Message for easy setup & Multi-Language support |
| System Operation | | Front Button, IR Remote Controller, USB Mouse, Keyboard(Option) |
| Power | | 12V x 3A D/C |
| Operating Temperature and Humidity | | 5~40℃ / 20~80% RH |
| Dimension (WxDxH) | | 1U Height 260 x 245 x 44 (mm) |

# VH16480P

## 16CH Professional Embedded DVR, Full D1 Real-Time Record & Playback, 2U Height Case

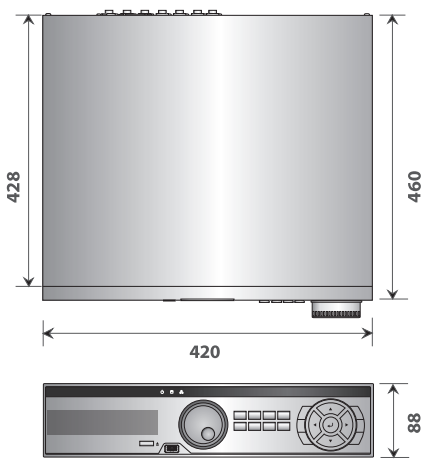


Model: VH16480P

## Features

- Automatic Upgrade of DVR F/W and Remote S/W
- POS Function up to 4 sets of POS Device
- Quick Setup to designate Recoding Period
- Emergency & intensive Recording
- Dual-Stream with Adjustable fps and Resolution
- Network Bandwidth Control(25Kbps~100Mbps)
- Mobile Viewer by WAP Connetion(2G & 3G Phones)
- Smart Phone Monitoring
  - iPhone & iPad & Black Berry & Android & Win Mobile Phone
- Help Message Pop-up just by One Mouse-Click
- Time Synchronization by NTP Server
- Support e-SATA

## Dimension




| MODEL | | VH16480P |
|---|---|---|
| Compression Algorithm | | Video : H.264, Audio :G723.1 |
| HDD Bay | | 4 x SATA HDD or 3 x SATA HDD & 1 x DVD |
| Operation System | | Embedded Linux |
| Video | Input | 16CH |
| | Loop out | Built-in |
| Video Mode | | NTSC/PAL Selectable |
| Display Speed(NTSC/PAL) | | 480/400 fps |
| Video -Out (Monitor) | | 2 x Main Monitor (Composite & DVI) & 1 x Spot Monitor (Composite) |
| Recording Speed (NTSC/PAL) | 352x240/288(CIF) | 480/400 fps |
| | 720x240/288 (Half D1) | 480/400 fps |
| | 720x480/576(D1) | 480/400 fps |
| Recording Resolution | | NTSC : 352x240, 720x240, 720x480, PAL : 352x288, 720x288, 720x576 |
| Recording Mode | | Continuous, Scheduled, Sensor-Activated & Motion Detection Recording Pre & Post Alarm Recording, Emergency Recording, Quick Backup |
| Playback & Search | Speed | x1, x2, x4, x8, x16, x32 |
| | Playback Channel | 1, 4, 9 & 16 Ch Real-Time Playback at CIF (30/25 fps per Ch) |
| | Function | Intelli-Search by Time Bar, Calendar (Date & Time) and Event/System Search |
| Audio Input / Output | | 8 Ch Input / 1 Ch Output |
| Alarm Input / Relay Output | | 16 Ch / 4 Ch |
| P/T/Z Control and Port | | Virtual Joy-Stick Control on screen by Mouse / Pan/Tilt/Zoom/Focus/Iris, RS-485 Port |
| LAN | | Gigabit Ethernet (RJ45), Fixed IP, DHCP & DDNS |
| Remote Management | Software | CMS (CentralManager S/W) & MMS (Mobile Viewer) & MacViewer (S/W for Mac OS) |
| | Web (IE) | Live Monitoring, Playback & System Configuration |
| Backup Device | Internal | DVD Burner (Option) |
| | External | Local Backup by USB ODD and Network Backup by CMS |
| System Recovery after Power Failure | | Auto-Reboot and Journaling File System |
| Advanced Functions | | 1) Firmware Upgrade by USB & CMS over Network<br>2) Automatic Upgrade of DVR F/W and Remote S/W from FTP Server<br>3) Import & Export of Setting Value, Water-Mark, AVI File Backup<br>4) Quick Setup to designate Recording Period<br>5) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)<br>6) Warning Alarm for System Over-Temperature<br>7) Help Message for easy setup & Multi-Language support |
| POS | | Text-in Based (RS232, USB to Serial support, Ethernet) / Display POS Data on Live & Playback |
| e-SATA | | External Storage Device Support (SATA Raid Controller) |
| System Operation | | Front Button, IR Remote Controller, USB Mouse, Keyboard (Option |
| Power | | 12V x 7A D/C |
| Operating Temperature and Humidity | | 5~40 ℃ / 20~80% RH |
| Dimension (WxDxH) | | 420 x 458 x 88 (mm) |

# VH1660S

## 16CH Special Embedded DVR, 2CIF Real-Time Record & Playback, 1.5U Height Case

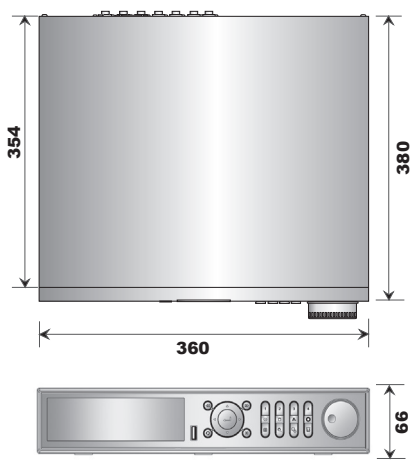


Model: VH1660S

## Features

- Automatic Upgrade of DVR F/W and Remote S/W
- POS Function up to 4 sets of POS Device
- Quick Setup to designate Recoding Period
- Emergency & intensive Recording
- Dual-Stream with Adjustable fps and Resolution
- Network Bandwidth Control(25Kbps~100Mbps)
- Mobile Viewer by WAP Connetion(2G & 3G Phones)
- Smart Phone Monitoring
  - iPhone & iPad & Black Berry & Android & Win Mobile Phone
- Help Message Pop-up just by One Mouse-Click
- Time Synchronization by NTP Server

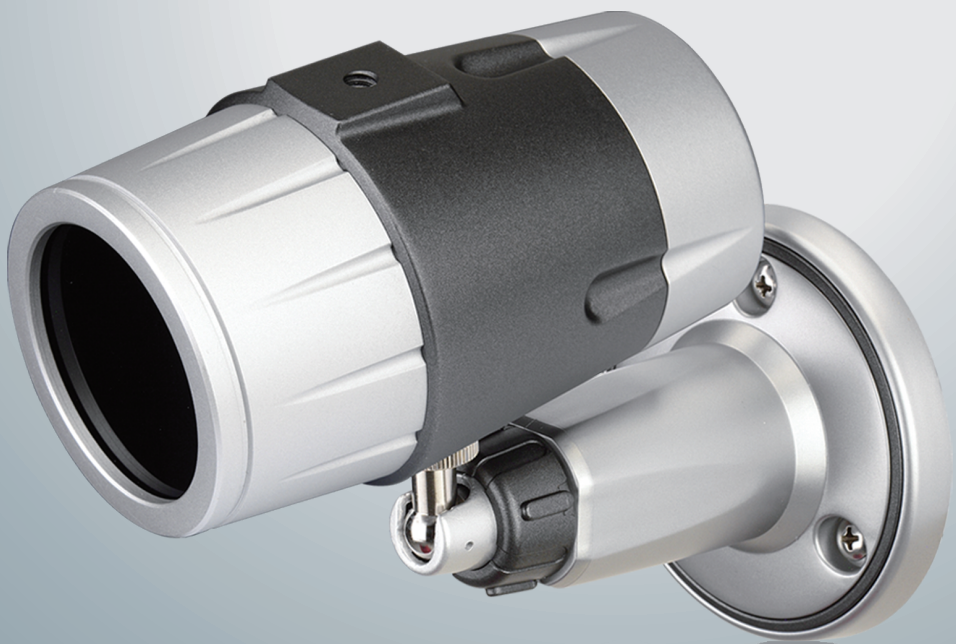
## Dimension




| MODEL | | VH1660S |
|---|---|---|
| Compression Algorithm | | Video : H.264, Audio : G723.1 |
| HDD Bay | | 2 x SATA HDD or 1 x SATA HDD & 1 x DVD |
| Operation System | | Embedded Linux |
| Video | Input | 16CH |
| | Loop out | Not Available |
| Video Mode | | NTSC/PAL Selectable |
| Display Speed(NTSC/PAL) | | 480/400 fps |
| Video -Out (Monitor) | | 2 x Main Monitor (Composite & VGA) & 1 x Spot Monitor (Composite) |
| Recording Speed (NTSC/PAL) | 352x240/288(CIF) | 480/400 fps |
| | 720x240/288 (Half D1) | 240/200 fps |
| | 720x480/576(D1) | 120/100 fps |
| Recording Resolution | | NTSC : 352x240, 720x240, 720x480, PAL : 352x288, 720x288, 720x576 |
| Recording Mode | | Continuous, Scheduled, Sensor-Activated & Motion Detection Recording Pre & Post Alarm Recording, Emergency Recording, Quick Backup |
| Playback & Search | Speed | x1, x2, x4, x8, x16, x32 |
| | Playback Channel | 1, 4, 9 & 16 Ch Real-Time Playback at CIF (30/25 fps per Ch) |
| | Function | Intelli-Search by Time Bar, Calendar (Date & Time) and Event/System Search |
| Audio Input / Output | | 1 Ch Input / 1 Ch Output |
| Alarm Input / Relay Output | | 4 Ch / 1 Ch |
| P/T/Z Control and Port | | Virtual Joy-Stick Control on screen by Mouse / Pan/Tilt/Zoom/Focus/Iris, RS-485 Port |
| LAN | | Gigabit Ethernet (RJ45), Fixed IP, DHCP & DDNS |
| Remote Management | Software | CMS (CentralManager S/W) & MMS (Mobile Viewer) & MacViewer (S/W for Mac OS) |
| | Web (IE) | Live Monitoring, Playback & System Configuration |
| Backup Device | Internal | DVD Burner (Option) |
| | External | Local Backup by USB ODD and Network Backup by CMS |
| System Recovery after Power Failure | | Auto-Reboot and Journaling File System |
| Advanced Functions | | 1) Firmware Upgrade by USB & CMS over Network<br>2) Automatic Upgrade of DVR F/W and Remote S/W from FTP Server<br>3) Import & Export of Setting Value, Water-Mark, AVI File Backup<br>4) Quick Setup to designate Recording Period<br>5) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)<br>6) Warning Alarm for System Over-Temperature<br>7) Help Message for easy setup & Multi-Language support |
| POS | | Text-in Based (RS232, USB to Serial support, Ethernet) / Display POS Data on Live & Playback |
| System Operation | | Front Button, IR Remote Controller, USB Mouse, Keyboard(Option) |
| Power | | 12V x 5A D/C |
| Operating Temperature and Humidity | | 5~40℃ / 20~80% RH |
| Dimension (WxDxH) | | 360 x 380 x 66 (mm) |

*Security Innovation*

# Illuminator & Accessory



VISION
www.visionipvideo.com
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# VL100

## Super Night Vision IR Illuminator

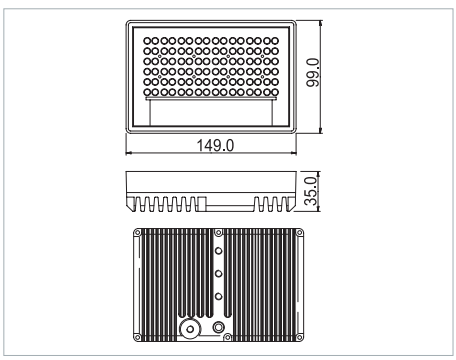


### Key Features

- Moisture condensation-free
- Long Viewable distance at 0 Lux
- Weatherproof (IP67)
- Extremely low power consumption
- IR light control externally
- Automatic IR On/Off
- Extremely reliable performance and Long life

| MODEL | VL100 |
|---|---|
| IR spectrum | 850nm IR LED x 96EA |
| IR beam distance | 70M(10˚) / 50M(20˚) / 40M(30˚) |
| MTBF | 20,000 hours |
| Power source | 12VDC / 1.5A Required, 24VAC(20 ~ 28V) / 1A Required |
| Operation current | 780mA or less 480mA or less |
| Operating Temp | 14˚F~122˚F ( -10˚C ~ +50˚C ) |
| Humidity | Within 90% RH |
| Output Terminal | 30cm L/W |
| Measurement (mm) | 149(W) x 99(V) x 35(L) |
| Weight(Approx.g) | 1,300 |
| IR Option | Invisible IR LED (λ = 940nM 10˚, 20˚, 30˚) |

### Dimension




# VL60

## IR Illuminator

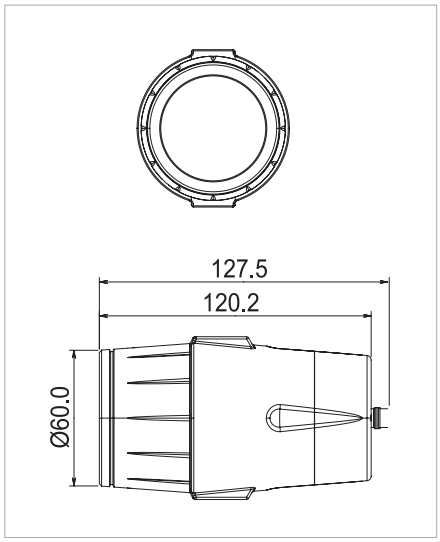


### Key Features

- VL60 ILLUMINATOR
- IR spectrum : High power 850nm-14ea
- Input voltage : 24VDC
- Current : 350mA
- IP67 Weatherproof
- Long IR beam Distance : 50M View
- Installation with existing telephone cable up to 100M long

| MODEL | VL60 |
|---|---|
| IR Spectrum | High Power 850nm |
| IR beam distance | 50M(15˚) |
| MTBF | 20,000 Hours |
| Power source | 24VDC |
| Operation current | 350mA |
| Operating Temp | 14˚F ~ 122˚F (-10˚C ~ +50˚C) |
| Humidity | Within 90% RH |
| Output Terminal | 30cm L/W |
| Measurement (mm) | 60(D) x 120.2(L) |
| Weight (Approx.g) | 600 |

### Dimension




# VL70W

## White Illuminator

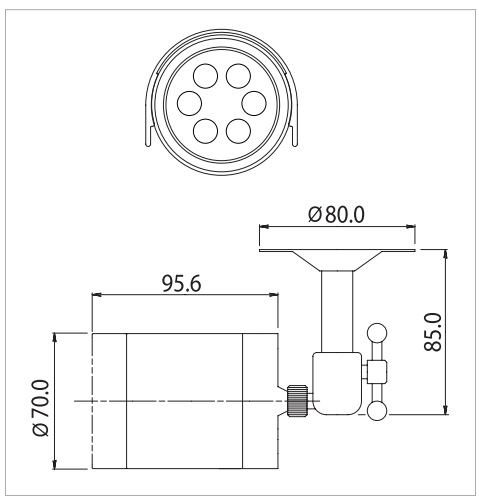


### Key Features

- Long Viewable distance at 0 Lux
- LED Brightness Adjust
- Photocell level adjust
- Inbuilt Photocell for automatic on/off operation
- Distances up to 50M(165ft)
- 20˚/ 40˚/ 60˚ degree variations
- Input voltage : 12VDC/24VAC
- Weatherproof (IP67)

| MODEL | VL70W |
|---|---|
| IR spectrum | Visible LED X 6EA |
| IR beam distance | 50M(20˚) |
| Optics | SMT LED's |
| MTBF | 2 year |
| Consumption | 6W |
| Power source | 12VDC/24VAC |
| Operation current | 500mA at 12VDC |
| Environmental | IP67 |
| Operation Temp | -10˚C ~ 50˚C |
| Humidity | Within 90% RH |
| Output Terminal | 60cm DC Male |
| Measurement(mm) | 70(D) x 95.6(L) |
| Weight(Approx.g) | 800 |

### Dimension



# WTX-1200A

## PTZ Controller



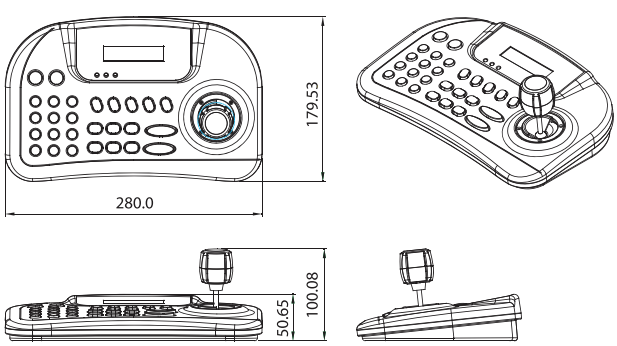
| MODEL | WTX-1200A |
|---|---|
| Keyboard Communication | Interface : RS-485 / RS-422 |
| | Operating distance : 4000ft (1.2Km) on 24 AWG wire |
| | Protocol : Multiple (Pelco-D, Pelco-P, WONWOO, Etc.)(Baud rate selectable) |
| Connector Type Data | TERMINAL BLOCK(8p) |
| Keyboard Button | Rubber button |
| | Numberic keypad and camera function key |
| Joystick | Stick 3-axis, variable speed with zoom |
| Input Voltage | DC 12V or 9V battery (Battery mode) |
| Power Consumption | Max. 140mA |
| LCD Display | Graphic display 16 character x2 lines |
| Operating Temperature | 0°C ~ 45°C |
| Humidity | 10% ~70% Non-condensing |
| Dimension | 280(W) x 100.08(H) x 179.3(D)mm |
| Weight | 0.7 kg |
| Packing Include | WTX-1200A KEYBOARD, ADAPTOR |
| | Packing include : USB CABLE, MANUAL, TERMINAL BLOCK(8p) |

## FEATURES

- USB mouse function
- Operate with 9V battery
- Controls up to 255 cameras.
- Multiple protocol supported in each channel
- RS-485 / RS-422 communication (Tx : 3 port, TRx :1 port).
- Programmable user preferences. (Preset, Tour, Pattern, etc.)
- Built-in 3-Axis proportional joystick
- Easy upload programmed data via serial communication.
- Built-in 2 lines character LCD.
- User password support.
- programmable transmission speed for each ID. (2.4~57.6kbps)
- Easy to be integrated with DVR(key-code value provided)

## Dimension

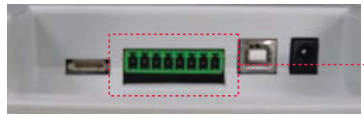
Unit : mm




## FUNCTIONS



Mouse Function
Mouse ON/OFF(Push 2~3 Seconds)




RS-485 / RS-422 communications
Built-in 3ports of Tx, 1port of TRx



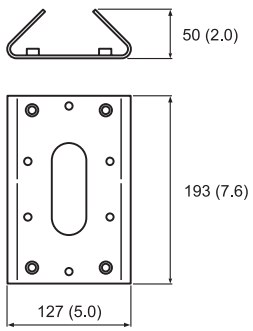
9V Battery
Operate with a 9V battery or power adapter

# PTZ Accessory

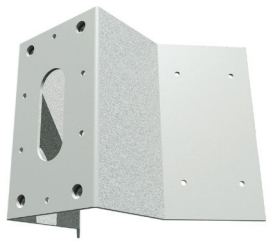
## ■ Pole Mount



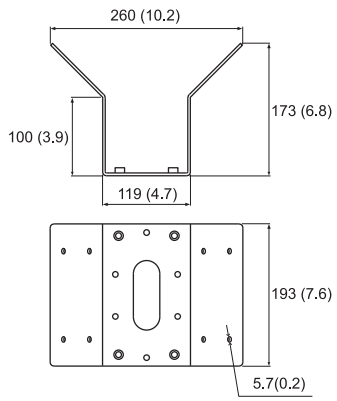
Dimensions/
Unit : mm (inch)




## ■ Corner Mount

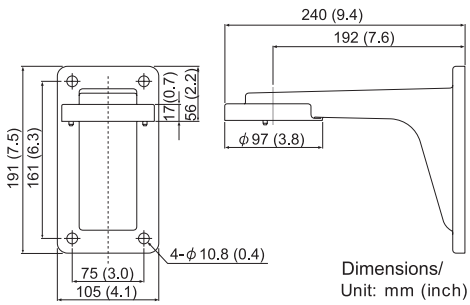


Dimensions/
Unit : mm (inch)




## ■ Wall Mount






Dimensions/
Unit: mm (inch)



For VDA110

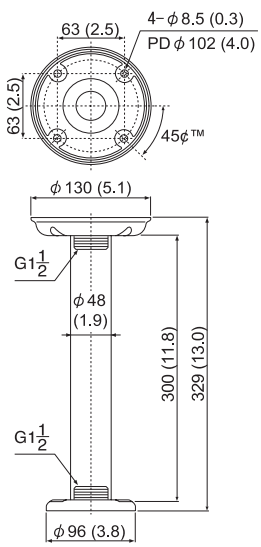


For VPD 100/VDA140

## ■ Pendant Mount



Dimensions/
Unit : mm (inch)





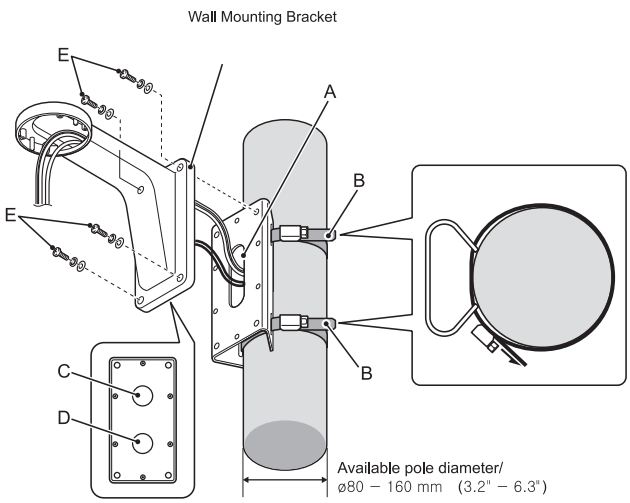

For VDA110



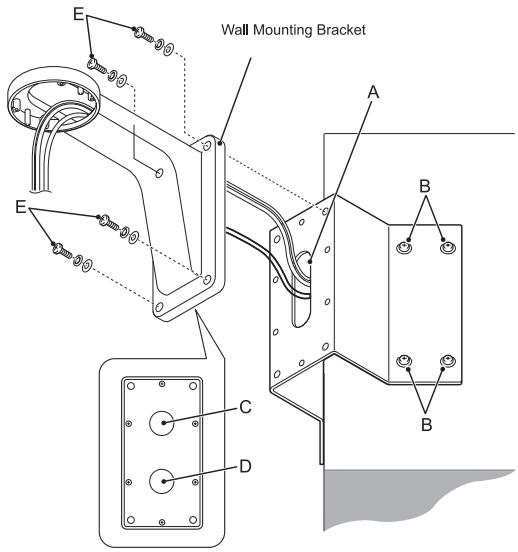
For VPD 100/VDA140

# PTZ Accessory

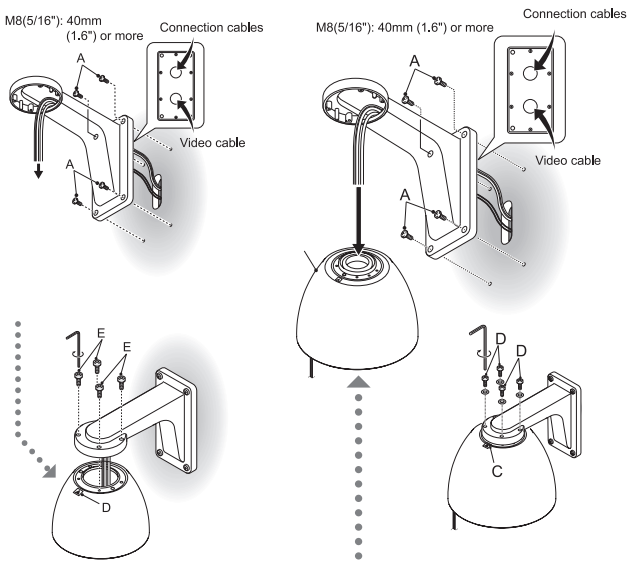
## ■ Pole Mount



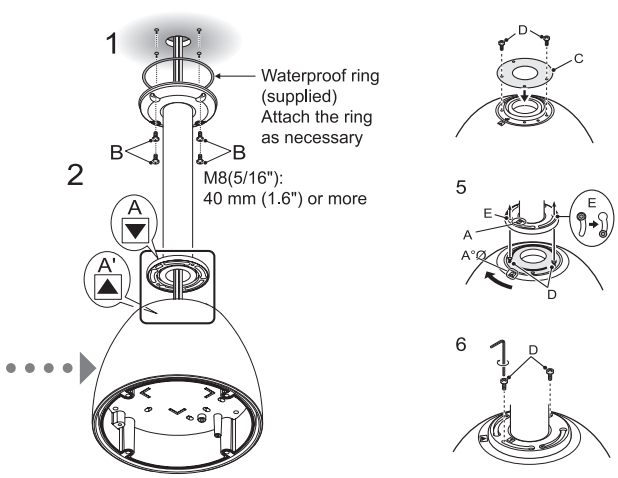

## ■ Corner Mount




## ■ Wall Mount




## ■ Pendant Mount



MEMO

MEMO

VISION

VISION

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