

# HARDWARE INSTALLATION GUIDE

VDA50SMi 1.3 Megapixel(720P) Indoor Dome IP Camera

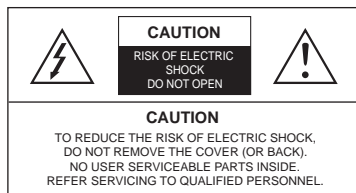


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**VISION** Vision Hitech Co., Ltd.

## Dear Customers!

By selecting this product, you have decided to use a professional device that guarantees highest quality and reliability. We would like to thank you very much for your confidence and kindly ask you to read the following instructions carefully before installation and operation in order to take full advantage of all quality features regarding this product.



The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## INFORMATION

This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

## CAUTION – To prevent electric shock and risk of the fire hazards

- Do NOT use power source other than that specified.
- Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

## Table of contents

1. Precautions -----	4
2. Limitation of liability -----	5
3. Disclaimer of warranty -----	5
4. Package -----	6
5. Cable Connection -----	7
6. Installation -----	8~9
7. Dimension (mm) -----	10
8. Specification -----	11~12

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## 1. Precautions

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- Please read the manual carefully before the installation in order to make use the camera to be set up correctly and to have the best picture quality.
- Please keep the manual in good condition for your future reference and service application.
- Installation and services should only be carried out by an authorized personnel according to local safety regulations.
- If any liquid or solid matter gets into the housing, immediately disconnect the camera from power supply and have it checked by your authorized dealer before reusing.
- Avoid installing the camera at extremely hot or cold places.
- If you are not a certified person, never try to dismantle the camera. To avoid electric shock, never remove the screws or covers. There are no parts inside that need maintenance by the user. All maintenance should be carried by qualified personnel.
- Avoid installing the camera at a place of high humidity.
- Avoid installing the camera at the place exposed to gas or oil.
- Keep the top glass of the lens always clean in order to obtain the best picture quality all the time. Be careful not to be stained by fingerprint.
- Please give a special attention to keep the unit from dangerous drop or external shock during the process of transportation or handling.
- Never try to touch the camera in wet hand. It may cause an electric shock.
- Do not expose the camera to radioactivity. It causes a serious damage on the sensor.

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## 2. Limitation of liability

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This publication is provided "AS IS" without warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for any particular purpose, or noninfringement of the third party's right. This publication could include technical inaccuracies or typographical errors. Changes are added to the information herein, at any time, for the improvements of this publication and/or the corresponding product(s).

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## 3. Disclaimer of warranty

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In no event shall seller be liable to any party or any person, except for replacement or reasonable maintenance of the product, for the cases, including but not limited to below :

- (1) Any damage and loss, including without limitation, direct or indirect, special, consequential or exemplary, arising out of or relating to the product;
- (2) Personal injury or any damage caused by inappropriate use or negligent operation of the user;
- (3) unauthorized disassemble, repair or modification of the product by the user;
- (4) Inconvenience or any loss arising when images are not displayed, due to any reason or cause including any failure or problem of the product;
- (5) Any problem, consequential inconvenience, or loss or damage, arising out of the system combined by the devices of third party.
- (6) Any claim or action for damages, brought by any person or organization being photogenic subject, due to violation of privacy with the result of that surveillance-camera's picture, including saved data, for some reason, becomes public or is used for the purpose other than surveillance.

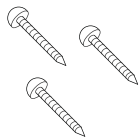
## 4. Package



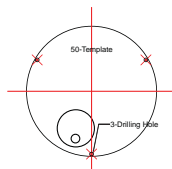
Indoor Dome IP Camera  
1EA



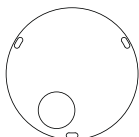
Instruction manual  
1EA



Tapping Screw  
3EA

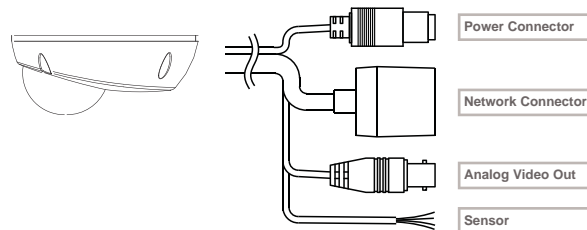


Drilling template  
1EA



Sponge  
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## 5. Cable Connection



This IP camera uses 12VDC for power source. Please make sure to use a UL/CE approved and 12VDC regulated power supply for input power.

### NOTE

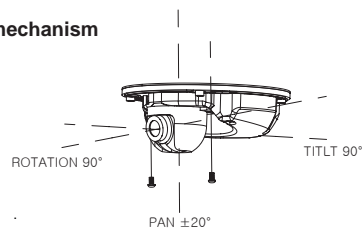
PoE is not available for VDA50SMi and VDA50SM3i.  
Do not connect PoE device into this product.

## 6. Installation

### 6-1. Tool-free 3-Axis mounting mechanism

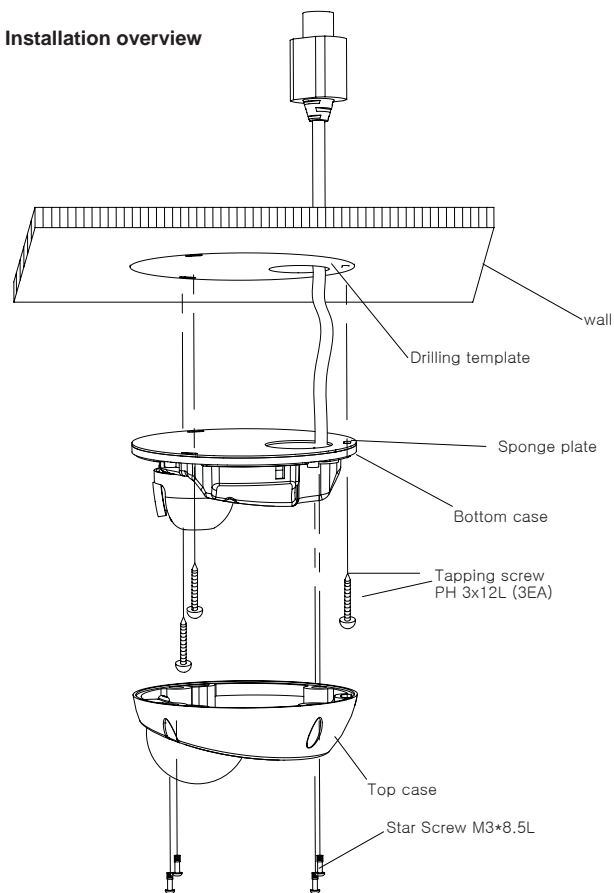
Perfect 3-axis

- Panning axis up to  $\pm 20$  degree
- Tilting axis up to 90 degree
- Rotation axis up to  $\pm 90$  degree

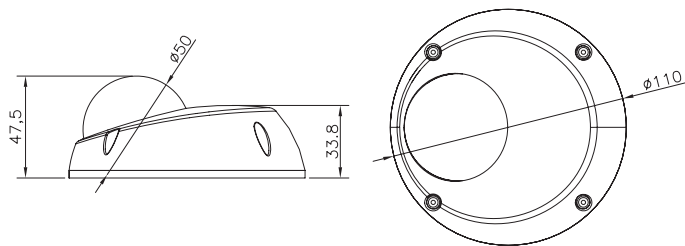


## 6. Installation

### 6-2. Installation overview



## 7. Dimension (mm)



## 8. Specification

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 at HD(720p)	
		MJPEG Up to 15fps at VGA (Simultaneous dual stream)	
		MJPEG single stream up to 30 fps at HD(720P)	
	Video streaming	Support multi stream with H.264, MJPEG	
		Adjustable frame rate	
	Image setting	VBR/CBR in H.264	
		Pan/Tilt/Zoom	Digital PTZ
		Image setting	Day & Night
			Auto White Balance
			Auto Exposure
Privacy Mask			
Network	Security	Effect - Color, Sharpness, Mirror/V-Flip, etc.	
		Password protection	
		User access log	
	Supported protocol		HTTPS encryption
HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP			

## 8. Specification

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)
etc	RESET Button	1 x Factory Reset Button
Physical	Power Source	POE(Power Over Ethernet):802.3af
	Power Consumption	Max. 4.2W
	Net Weight	383g Appr.(Camera Only)
	LED's	Power, Network Connection
	Dimension	110(Ø) x47.5(H)
	IP Grade	IP67
Environment	Operating Temperature	-25 degree~50 degree Celsius (-13F~122F)
	Storage Temperature	-25 degree~60 degree Celsius (-13F~140F)
Software	Included Software	NVR Lite (16 Channel), IP Installer (Windows Only)
Package	Package Contents	Network Camera, User Manual, Software CD

\* Specifications are subject to change without prior notice for improvement.

## MEMO

