OSD Manual

For WIDELUX Cameras
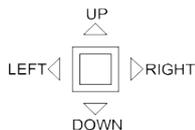
WIDELUX Series OSD Manual for function control

Use the function setup switch (OSD switch) for function setup. OSD switch is different from model to model. Please refer to hardware installation guide of each model.

1. On Screen Display (OSD) Menu Configuration

MAIN MENU					
LENS	MANUAL	DC			
EXPOSURE	AGC	SHUTTER	SENS - UP	INITIAL	SAVE
DAY/NIGHT	AUTO1	AUTO2	DAY	NIGHT	
WDR/BLC/ECLPS	OFF	WDR	BLC	ECLPS	
WHITEBAL	ATW	COL-ROLL	PUSH	MANUAL	
2D-DNR	DISABLED	OFF	LOW	MIDDLE	HIGH
3D-DNR	ON	OFF			
EFFECTS	DZOOM MODE	IMAGE FREEZE	D-EFFECT	CONTRAST	SHARPNESS
	COLOR ADJUST	TARGET CROSS	BAD PIXEL	INITIAL SET	SAVE
SPECIAL	CAM NAME	MOTION DET	PRIVACY MASK	LANGUAGE	STABILIZER
	MONITOR TYPE	FACE REC	COMM SET	FACTORY RESET	SAVE
EXIT					

2. Setting up the menu

1. Press the Tact SW to enter <MAIN MENU>.

2. Move the arrow to a specific menu by pushing the Tact SW up or down.

3. Adjust the selected feature by pushing the Tact SW left or right

4. When completed, move the arrow indicator to 'EXIT' and press the Tact SW to finish all settings.

☞ Note
• If ' ⏎ ' indication appears on a selected sub-menu, press the Tact SW to get into a following menu.
• If ' --- ' indication appears on any sub-menu, it means the function with this mark is deactivated. (Ex : When SENS-UP is OFF, 3-DNR becomes deactivated '---')

3. LENS

Select the lens and adjust the SETUP suitable to the type of lens.

◆ When DC lens is used. (※ Default)

1. Please select the lens mode to DC IRIS.
2. Press the Tact SW to enter the <DC IRIS MENU>.

- BRIGHTNESS: adjust the brightness of screen when the environment is   extremely bright or dark.
- REACTION: Reaction speed of the shutter is adjustable. It is useful when the light condition of the environment keeps changing quickly.

3. Save
   Press SAVE to finish all settings and return to <MAIN MENU>

◆ When MANUAL lens is used.
1. Please select the lens mode to MANUAL.
2. Press the Tact SW to enter the <MANUAL IRIS MENU>.
   - BRIGHTNESS: same as above
   - REACTION: same as above

4. EXPOSURE

(1) AGC (Auto Gain Control)
- OFF : Deactivates the AGC function.
- LOW : Allows automatic gain control from 0 to 20dB.
  (※ Default)
- MIDDLE: Allows automatic gain control from 0 to 30dB.
- HIGH: Allows automatic gain control from 0 to 42dB.

※ The higher the gain level, the brighter the screen becomes
while the higher the noise as well.

```
<EXPOSURE MENU>
▶ AGC           LOW
  SHUTTER       AUTO
  SENS-UP       X8
  INITIAL SET↵
  SAVE             ↵
```

(2) SHUTTER
A. AUTO : The shutter speed is controlled automatically.
   (※ Default)
B. FLK : Please select FLK mode when flickering occurs on
   the screen, due to an imbalance between
   illumination and frequency.
C. FIXED : The shutter speed is controlled manually.

- You can select the speed from '1/60' to '1/90,000 sec.
  (NTSC), '1/50' to '1/90,000 sec. (PAL).
- You can select Digital Slow Shutter. (DSS) between
  x2 ~ x512.

※ Please use FIXED mode only when the light level of the
surveillance area is fixed all the time.

```
<EXPOSURE MENU>
  AGC           LOW
▶ SHUTTER       AUTO
  SENS-UP       X8
  INITIAL SET↵
  SAVE             ↵
```

(3) SENS-UP
- Low light sensitivity is greatly improved with the use of this
function.
- Low light sensitivity level is adjustable from 2 to 512 times.
- When SEN-UP level is higher, the picture becomes brighter
while noise is increased at the same rate of SENS-UP.

```
<EXPOSURE MENU>
  AGC           LOW
  SHUTTER       AUTO
▶ SENS-UP       X8
  INITIAL SET↵
  SAVE             ↵
```

ON : Adjustable SENS-UP level between x2 ~ x512.
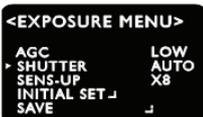OFF: SENS-UP is disabled.
※ Default setting is <x8>

☞ Note
• When the SHUTTER is set to MANUAL mode, SENS-UP does not operate.
• When the AGC is set to OFF, SENS-UP does not operate.

(4) INITIAL SET
Initialize all settings of EXPOSURE menu.

(5) SAVE
Save the settings

5. DAY / NIGHT

It is used to improve the sensitivity and clarity of picture
quality at low light

- DAY : The image is always displayed in color.
- NIGHT : The image is always displayed in black and white.
- AUTO1 : The image is automatically converted to B/W from
  Color at 3 lux.

● IR WDR LEVEL : Select Anti - IR saturation level among
   OFF/LOW/MIDDLE/HIGH
● IR WDR ADJUST : Adjust the value in each of selected
   level - 0 ~ 6

```
<MAIN MENU>
  1. LENS          DC IRIS↵
  2. EXPOSURE↵
▶ 3. DAY/NIGHT     AUTO1
  4. WDR/BLC/ECLPS WDR↵
  5. WHITE BAL     ATW
  6. 2D-DNR        DISABLED
  7. 3D-DNR        ON↵
  8. EFFECTS↵
  9. SPECIAL↵
 10. EXIT          RET↵
```

```
<D/N AUTO1 MENU>
▶IR WDR LEVEL     HIGH
 IR WDR ADJUST   3▬▬▬▬▬
 SAVE
```

- AUTO2 : The image is automatically converted to B/W from
  Color at 3 lux.

● D/N LEVEL : LOW/MIDDLE/HIGH
● FILTER DLY : Select the duration time about changing
   the Day/Night mode. (1 SEC, 3 SEC,
   5 SEC, 10 SEC, 15 SEC, 30 SEC, 60 SEC)
● NIGHT BURST: Burst ON/OFF selectable.
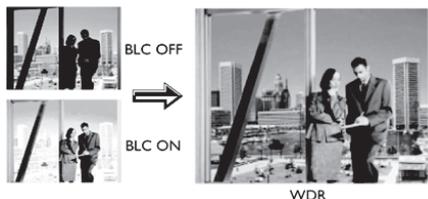● INITIAL SET: Initialize all settings of AUTO2 menu.

```
<D/N AUTO2 MENU>
▶ D/N LEVEL      MIDDLE
  FILTER DLY     1SEC
  NIGHT BURST    OFF
  INITIAL SET↵
  SAVE             ↵
```

※ Default setting
- Infrared camera: AUTO1
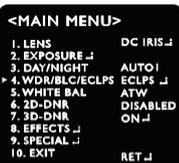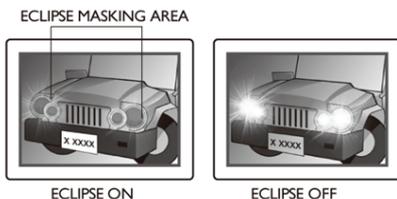- Non-Infrared camera: AUTO2

6. WDR/BLC/ECLPS

The image quality is greatly improved with the use of this mode when there is a strong backlight behind the object.

- OFF : De-activates the WDR function.
- WDR : Camera scans both of bright lit background and shaded area distinctively under an extremely contrasted light situation. (LOW/MIDDEL/HIGH)
- BLC : Enables a user to directly select a desired area from a picture and to view the area more clearly. (LOW/MIDDEL/HIGH)

```
<MAIN MENU>
1. LENS            DC IRIS⌐
2. EXPOSURE ⌐
3. DAY/NIGHT       AUTO1
▶ 4. WDR/BLC/ECLPS  WDR ⌐
5. WHITE BAL       ATW
6. 2D-DNR          DISABLED
7. 3D-DNR          ON ⌐
8. EFFECTS ⌐
9. SPECIAL ⌐
10. EXIT           RET⌐
```

```
<WDR MENU>
▶ WDR LEVEL    HIGH
  SAVE         ⌐
```

```
<BLC MENU>
▶ BLC LEVEL    MIDDLE
  SAVE         ⌐
```

BLC OFF

BLC ON

WDR

-ECLIPSE:
● Can mask the head lights to view car license number plate more clearly.
● Can select masking color.
● Adjust the ECLIPS level at the GAIN CONTROL as OFF mode.

ECLIPSE MASKING AREA

X XXXX   X XXXX

ECLIPSE ON   ECLIPSE OFF

```
<MAIN MENU>
1. LENS            DC IRIS⌐
2. EXPOSURE ⌐
3. DAY/NIGHT       AUTO1
▶ 4. WDR/BLC/ECLPS  ECLPS ⌐
5. WHITE BAL       ATW
6. 2D-DNR          DISABLED
7. 3D-DNR          ON ⌐
8. EFFECTS ⌐
9. SPECIAL ⌐
10. EXIT           RET⌐
```

```
<ECLIPSE MENU>
▶ AREA SETTING
  ALL AREA SET    OFF
  MASK COLOR      GRAY
  ECLPS LEVEL     1⌐
  GAIN CONTORL    OFF
  SAVE            ⌐
```

7. White Balance (WHITE BAL, WB)

This is useful to optimize the white balalnce control under a certain artificial lighting area where a standard white balance condition is not suitable.

- ATW (Auto Tracking White Balance)
  This mode can be used within the color temperature range of 1,500˚K~11,000˚K. (※ Default)
- COL-ROLL
  Anti color rolling mode.
  Use it only when the rolling is severely shown.
- MANUAL
  Recommanded to use it when the light temperature is fixed all the time Select INDOOR or OUTDOOR mode.
- PUSH (Push lock)
  Use this when the White Balance is deviated.
  Face the camera toward the white wall or white paper and press the Tact SW

```
<MAIN MENU>
1. LENS            DC IRIS⌐
2. EXPOSURE ⌐
3. DAY/NIGHT       AUTO1
4. WDR/BLC/ECLPS   ECLPS⌐
▶ 5. WHITE BAL      ATW
6. 2D-DNR          DISABLED
7. 3D-DNR          ON ⌐
8. EFFECTS ⌐
9. SPECIAL ⌐
10. EXIT           RET⌐
```

```
<WB MANUAL MENU>
▶ COLOR TEMP      INDOOR
  RED            0
  BLUE           0
  INITIAL SET ⌐
  SAVE           ⌐
```

☞ Note
White Balance may not work properly under the following condition
- When the color temperature of the environment surrounding the subject is out of the control range.(e.g. clear sky or sunset)
- When the ambient illumination of the subject is dim.
- If the camera is directed towards a fluorescent light or is installed in a place where illumination changes dramatically, the White Balance operation may become unstable.

8. 2D-DNR (2D Noise Reduction)

This function reduces the background noise in a low luminance environments.

- LOW
- MIDDLE
- HIGH
- DISABLED: Deactivates 2DNR. Noise is not reduced.
- OFF : Activates 2DNR(Level : 0). Noise is not reduced.

☞ Note
<Bad pixel detection> function is operated only when <2D-DNR DISABLED> is selected.

```
<MAIN MENU>
1. LENS                DC IRIS↵
2. EXPOSURE ↵
3. DAY/NIGHT           AUTO I
4. WDR/BLC/ECLPS  ECLPS ↵
5. WHITE BAL           ATW
▸ 6. 2D-DNR            DISABLED
7. 3D-DNR              ON ↵
8. EFFECTS ↵
9. SPECIAL ↵
10. EXIT               RET ↵
```

9. 3D-DNR (3D Noise Reduction)

The background noise in the low light level decreases automatically as the level of gain changes.

- DNR LEVEL
  Adjust the noise reduction level.
- DESTINATION
  Adjust the 3DNR gain.
- GLOBAL MOVEMENT
  Control ghost phenomenon

```
<MAIN MENU>
1. LENS                DC IRIS↵
2. EXPOSURE ↵
3. DAY/NIGHT           AUTO I
4. WDR/BLC/ECLPS  ECLPS ↵
5. WHITE BAL           ATW
6. 2D-DNR              DISABLED
▸ 7. 3D-DNR            ON ↵
8. EFFECTS ↵
9. SPECIAL ↵
10. EXIT               RET ↵
```

```
<3D-DNR MENU>
▸DNR LEVEL            24
DESTINATION          47
GLOBAL MOVEMENT      OFF
SAVE                 ↵
```

10. EFFECTS

- **D-ZOOM** : You can use a digital zoom.
  • ZOOM : x1 ~ x8.30
  • DZOOM PAN : -100 ~ 100
  • DZOOM TILT : -100 ~ 100

- **IMAGE FREEZE** : You can view still or live image.

- **D-EFFECT**
  • V-FLIP : You can flip the picture vertically on the screen.
  • MIRROR : You can flip the picture horizontally on the screen.
  • ROTATE : You can flip the picture rotatively on the screen.

- **CONTRAST** : 0 ~ 100
- **SHARPNESS** : 0 ~ 100

- **COLOR ADJUST**
  • COLOR : ON/OFF
  • COLOR LEVEL : 0 ~ 200
  • COLOR HUE : -180 ~ 180
  • RED GAIN : -100 ~ 100
  • BLUE GAIN : -100 ~ 100
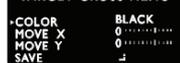
- **TARGET CROSS** : Display '+' on the screen
  • COLOR : BALCK,GRAY,WHITE,RED,GREEN,YELLOW
  • MOVE X : -100 ~ 100
  • MOVE Y: -100 ~ 100
  • INITIAL SET
  • SAVE

☞ Note
At TARGET CROSS function is in operation, '+' display shall disappear if MOTION DET function is 'ON'

- **BAD PIXEL**: BAD PIXEL compensation
  • BP DETECTION: Make the screen completely black by covering the camera.
  • SEARCH AREA: X START/Y START/WIDTH/HEIGHT
  • THRESHOLD: 40 ~ 1024
  • SAVE
  (※ Users may simply activate BP DETECTION and go directly to SAVE.
  Then Bad pixels in full screen are compensated automatically)

- **INITIAL SET** : Initialize all settings of EFFECTS menu.
  (※ TARGET CROSS and BAD PIXEL modes are not initialized)
- **SAVE**

```
<MAIN MENU>
1. LENS                DC IRIS↵
2. EXPOSURE ↵
3. DAY/NIGHT           AUTO I
4. WDR/BLC/ECLPS  ECLPS ↵
5. WHITE BAL           ATW
6. 2D-DNR              DISABLED
7. 3D-DNR              ON ↵
▸ 8. EFFECTS ↵
9. SPECIAL ↵
10. EXIT               RET ↵
```

```
<EFFECTSA MENU>
▸DZOOM MODE          OFF
IMAGE FREEZE         OFF
D-EFFECT             OFF
CONTRAST             50
SHARPNESS            50
COLOR ADJUST ↵
TARGET CROSS
BAD PIXEL ↵
INITIAL SET↵
SAVE
```

```
<COLOR ADJUST MENU>
▸COLOR               ON
COLOR LEVEL          100
COLOR HUE            0
RED GAIN             0
BLUE GAIN            0
SAVE
```

```
<TARGET CROSS MENU>
▸COLOR               BLACK
MOVE  X              0
MOVE  Y              0
SAVE
```

```
<BAD PIXEL DETECTION>
▸BP DETECTION
SEARCH AREA
THRESHOLD            90
SAVE
```

11. SPECIAL MENU

CAM NAME

- Please position the arrow to point to 'CAM NAME' by using the UP or DOWN selection.
- Please select 'ON' by using the LEFT and RIGHT selection. Please press the button to complete 'ON'.

☞ Note

If 'OFF' is selected, the CAM NAME does not appear on the monitor even if it has been input.

- Up to 15 letters are offered for the CAM NAME. If you enter a title, the title will appear on the monitor.
① Please move the cursor to the letter to choose by using the UP and DOWN selections.
② Set an ID from A~Z /a~z /0~9 by using the UP, DOWN, LEFT and RIGHT Selections.
③ Lock in the letters by using the button.
  • When the letter is locked in, the cursor moves to the next space.
④ Please repeat the above to input CAM NAME.

☞ Note

When a wrong name has been input,
- If you press the button after moving the cursor to CLR, all letters will be erased.
- If you want to correct a letter, please move the cursor to the arrow at the bottom left of the screen and press the button.
- Please position the cursor on the letter you wish to correct, and then move the cursor onto the letter you wish to choose and press the button.
- When a name has been chosen, please select a position for the name to display.

① Please move the cursor onto 'POS' and then press the button.
② The name will appear at the top left hand corner.
③ Please find the position you wish to display the name by using the 4 directional selections, and then press the Button.

- Please select 'END' and then press the Button to complete CAM NAME input.

MOTION (Motion Detection: MD)
This product has a feature that allows you to observe movement of objects in 8 different areas on the screen, and the words 'MOTION' appear on the screen when movement is detected. You can monitor activity more effi ciently.

- ZONE NUMBER : You can select up to 8 MD areas.
- ZONE STATE : Determines whether to use the MD area selected in ZONE NUMBER.
- WIDTH : Determines the coordinate of the horizontal size.
- HEIGHT : Determines the coordinate of the vertical size.
- MOVE X : Determines the coordinate of the horizontal axis.
- MOVE Y : Determines the coordinate of the vertical axis.
- SENSITIVITY : Determines the coordinate of the sensitivity.
- INITIAL SET : Initialize all setting of MOTION DET menu.
- SAVE : Select this to save the MOTION menu setting and return to the SPECIAL menu.

PRIVACY (Privacy Masking)
This function helps you mask an area you want to hide on the screen.

- MASK NUMBER : You can select up to 8 PRIVACY areas.
- MAKS STATE : Determines whether to use the selected in AREA SELECT.
- SENSITIVITY : Determines area color. You can select GRAY, WHITE, RED, GREEN, BLUE, YELLOW, BLACK.
- WIDTH : Determines the coordinate of the horizontal size.
- HEIGHT : Determines the coordinate of the vertical size.
- MOVE X : Determines the coordinate of the horizontal axis.
- MOVE Y : Determines the coordinate of the vertical axis.
- INITIAL SET : Initialize all setting of PRIVACY menu.
- SAVE : Select this to save the PRIVACY menu setting and return to the SPECIAL menu.

LANGUAGE

You can select the menu language according to your requirements.
- English, Korean, Russian, Spanish, French are available

```
<SPECIAL MENU>
CAM NAME          OFF
MOTION DET        OFF
PRIVACY MASK      OFF
▶ LANGUAGE        ENG
STABILIZER        OFF
MONITOR TYPE      CRT
FACE REC          OFF
COMM SET ↵
FACTORY RESET ↵
SAVE          ↵
```

STABILIZER (DIS)

This function mitigates any picture movement due to external factors such as wind.

☞ Note
• The camera's resolution decreasesbecause STABILIZER function uses the digital zoom.
• STABILIZER doesn't operate when background illumination is too low.
• STABILIZER doesn't operate when object pattern is monotonic like sky or white wall.

```
<SPECIAL MENU>
CAM NAME          OFF
MOTION DET        OFF
PRIVACY MASK      OFF
LANGUAGE          ENG
▶ STABILIZER      OFF
MONITOR TYPE      CRT
FACE REC          OFF
COMM SET ↵
FACTORY RESET ↵
SAVE          ↵
```

MONITOR TYPE

Please change the settings value of video appropriate to your monitor.

- CRT : GAMMA 0.45
- LCD : GAMMA 1.0

```
<SPECIAL MENU>
CAM NAME          OFF
MOTION DET        OFF
PRIVACY MASK      OFF
LANGUAGE          ENG
STABILIZER        OFF
▶ MONITOR TYPE    CRT
FACE REC          OFF
COMM SET ↵
FACTORY RESET ↵
SAVE          ↵
```

FACE REC (Face Recognition)

A special area where the internal illumination is dark while strong back light exists behind the object, normally human face becomes unrecognizable. This mode is suited for this particular situation.

- FR BRIGHTNESS : 0 ~ 40
- FR CONTRAST : 0 ~ 40
- COLOR SAT : 0 ~ 200
- CONTRAST : 0 ~ 100
- OUTPUT LEVEL : -64 ~ 64
- SHARPNESS : 0 ~ 100

```
<SPECIAL MENU>
CAM NAME          OFF
MOTION DET        OFF
PRIVACY MASK      OFF
LANGUAGE          ENG
STABILIZER        OFF
MONITOR TYPE      CRT
▶ FACE REC        OFF
COMM SET ↵
FACTORY RESET ↵
SAVE          ↵
```

COMM SET (Communication seting)

This function sets up the camera communication status when controlling the camera through an external control device.

```
<COMM SETTING MENU>
▶PROTOCOL        PELCO D
 CAMERA ID ↵
 BAUD RATE       9600
 SAVE/REBOOT ↵
 SAVE            ↵
```

- CAMERA ID

• CAMERA ID : Determines the camera's identification number (between 0 and 255).
• ID POSITION : Displays camera title on top left & right side of the screen.
• BAUD RATE : You can select 4800/9600/19200/38400/57600 bps .
• SAVE/REBOOT : Select this to save the COMM SET menu setting and return to the main screen.
• PREVIOUS: Return to COMM SET menu.

```
<SET CAMERA ID>
▶CAMERA ID       001
 DISPLAY ID      OFF
 ID POSITION
 SAVE
```

☞ Note
- RS-485 cable : Please connect (-) firstly and then (+).
- IF there happens RS-485 cable conection error or any other problems, a message 'ERROR RS-485 Connection. Please Reconnect and Reboot' is displayed.
  Please reset the power or OSD.

FACTORY RESET

Resets the camera setting to the factory defaults.
But <COMM SET> menu is not initialized.

12. EXIT

Save all setting menus by pressing the Tact SW and then exit by pressing EXIT menu.

MEMO

MEMO