

OSD CONTROL USER'S GUIDE

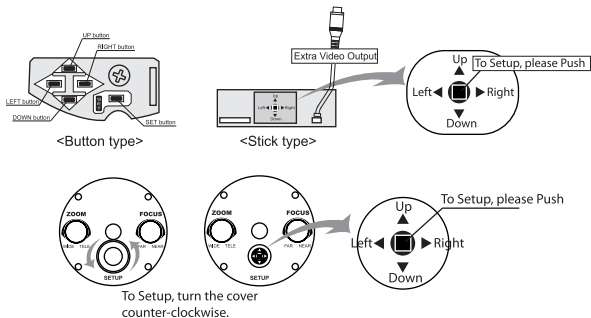
Camera Operation

MAIN MENU	
LENS	MANUAL DC
EXPOSURE	SHUTTER, AGC, SENSUP, RETURN
BACKLIGHT	OFF, HSBLC, BLC, DWDR
WHITE BAL	ATW, AWB, AWC—SET, MANUAL
DAY&NIGHT	AUTO, EXT, COLOR, NIGHT
SMART 3DNR	OFF, ON
F—DNR	OFF, MANUAL, AUTO,
FUNCTION	MOTION, PRIVACY, D—EFFECT, IMAGE ADJ, COMM ADJ, SYNC, LANGUAGE, RETURN
EXIT	SAVE, RESET, CANCEL

Camera Operation

Settings

Settings can be made using the 5 buttons.



1. Please press the SETUP button

Settings can now be made. The SETUP menu is displayed on the monitor.

2. Please select any function you wish to activate by using the UP and DOWN buttons.

The arrow can be moved up or down by using the UP and DOWN buttons. Please position the arrow to point to the function you wish to operate.

Camera Operation

Select any function you wish to operate by using the UP and DOWN buttons.

MAIN MENU	
▶ 1. LENS	MANUAL ◀
2. EXPOSURE	◀
3. BACKLIGHT	OFF
4. WHITE BAL	ATW
5. DAY&NIGHT	AUTO ◀
6. SMART 3DNR	ON ◀
7. F-DNR	OFF
8. FUNCTION	◀
9. EXIT	SAVE ◀

Modes can be changed using the LEFT and RIGHT buttons.

3. Please press the LEFT or RIGHT button if you wish to change mode.

- When the LEFT or RIGHT button is pressed, available values and modes are displayed in order. Please keep pressing the button until you get to the mode you wish to operate.

4. Please select 'EXIT' and then press the SETUP button to finish the setting.

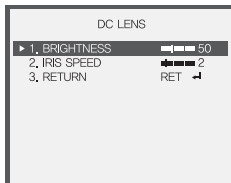
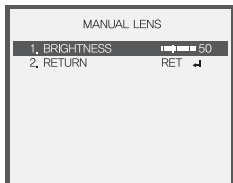
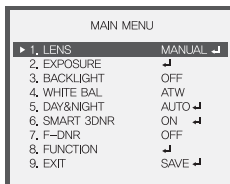
NOTE

- If ◀ appears at the mode you wish to operate, it means that there is a submenu which can be selected by pressing the SETUP button.
- If --- appears at the mode item, it means that there is no mode available to be selected.

Camera Operation

1. Lens

- When the 'MAIN MENU' menu is displayed on the screen, please position the arrow to point to 'LENS' by using the UP and DOWN buttons.
- Please select the type of the lens you wish to use by pressing the LEFT or RIGHT button.



- DC : Auto iris lens selection
- MANUAL : Manual lens selection
- Please press thr SETUP button if you wish to return to the previous menu.

2. Exposure

- When the 'MAIN MENU' menu screen is displayed, select 'EXPOSURE' by using the UP and DOWN buttons so that the arrow indicates EXPOSURE.
- Select a desired mode using the UP and DOWN buttons.

Camera Operation

MAIN MENU	
1, LENS	MANUAL ↵
▶ 2, EXPOSURE	↵
3, BACKLIGHT	OFF
4, WHITE BAL	ATW
5, DAY&NIGHT	AUTO ↵
6, SMART 3DNR	ON ↵
7, F-DNR	OFF
8, FUNCTION	↵
9, EXIT	SAVE ↵

EXPOSURE	
▶ 1, SHUTTER	AUTO
2, AGC	HIGH
3, SENSUP	OFF
4, RETURN	RET ↵

• SHUTTER (Fixed the shutter speed in Manual mode.)

- AUTO : Default - Users set the brightness of the scene and the shutter speed is controlled automatically.
- MANUAL : The shutter speed is controlled by users.
- 1/60(50) ~ 1/100,000 : Shutter speed is fixed at 160(50)sec. When it is used DC IRIS Lens.
- FLK : Select this when you experience picture flicker, which can happen when there is a clash with the frequency of the installed lighting

• AGC (Auto Gain Control)

- The higher the gain level, the brighter the screen - but the higher the noise.
- AGC : Auto Gain Control level set LOW / MIDDLE / HIGH.

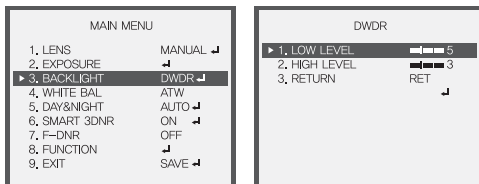
• SENSUP

- SensUP is realized in the most low illumination quality and it provides the image without a noise at the low illumination quality.
- When it is night or dark, the camera automatically detects the light level and maintains a clear picture if this mode is activated.
- AUTO : x10 / x12 / x14 / x16 / x24 / x32 / x64 / x128 / x256

• RETURN

- Select this to save the changes in the menu and return to the MAIN menu.

Camera Operation



3. BACKLIGHT

- DWDR (Digital Wide Dynamic Range)

Realize the improved backlight compensation function more than existed DWDR (Digital Wide Dynamic Range) with a fusion ratio of the optimum by pixel, when they composite both a shutter of high speed at the light area and the shutter of low speed at the dark area



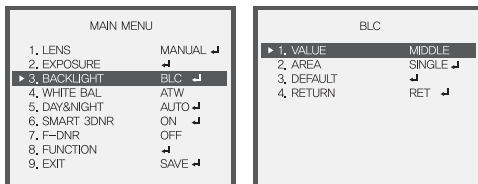
DWDR ON



DWDR OFF

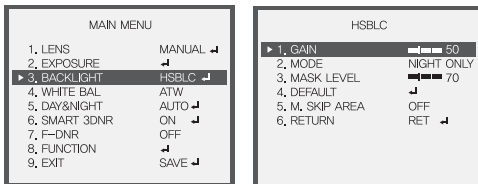
- When the BACKLIGHT menu screen is displayed, select 'DWDR' by using the Up and Down buttons so that the arrow indicates 'DWDR'.
- Use the Left/Right buttons to change the DWDR threshold level in the sub menu according to the contrast between bright and dark areas.

Camera Operation



- BLC (Back Light Compensation)

Possible to select two areas at AREA SEL and can control GAIN, Expand or reduce a length area by HEIGHT and the width area by WIDTH, Move to a width direction by LEFT/RIGHT and the length direction by TOP/BOTTOM.



- HSBLC : Sets HSBLC area of separate way from HLC mode.

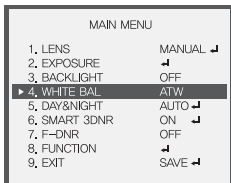
- GAIN : Adjust a sensitivity by level value.
- MODE : Make a working time of specification wide interception.
- MASK LEVEL : Adjust a light in range size.
- DEFAULT : Initialize all adjust value of HSBLC to the default value.
- M. SKIP AREA : Indicate a range of non mask.
- RETURN

Camera Operation

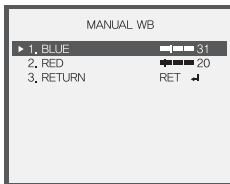
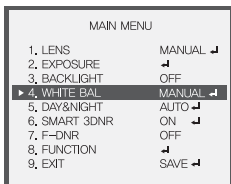
4. WHITE BAL

The screen color can be adjusted by using the WHITE BALANCE function.

1. Please position the arrow to point to 'WHITE BAL' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.



- ATW : Select this when the color temperature is between 2300° K and 9500° K
- AWB : Select this when the color temperature is between 2500° K and 10500° K
- AWC → SET : To find the optimal setting for the current luminance environment in this mode, set the point the camera towards a sheet of white paper and press the SET button. If the environment changes, readjust it.



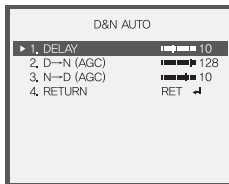
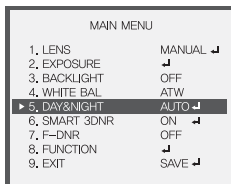
- MANUAL : Select this to fine-tune White Balance manually. Set White Balance first by using the ATW or AWC mode. After that switch to MANUAL mode, fine-tune the White Balance and then press the SET button.

Camera Operation

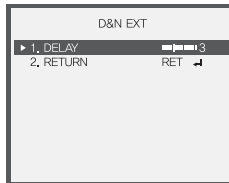
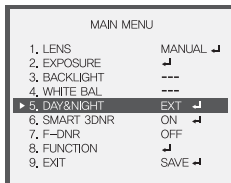
5. DAY & NIGHT

You can display pictures in color or black and white.

- When the SETUP is on the screen, please position the cursor to 'DAY & NIGHT' by using the button. And then press the button.



- AUTO : The camera will automatically show color image in high lux and black / white image in low lux.
 - DAY → NIGHT: Color to B/W mode slide, 0 to 255
 - NIGHT → DAY: B/W to Color mode slide, 0 to 255



- EXT : It is a mode to convert Day & Night by received external input signal.

IR camera does not have this feature. Instead, it detects lux using CDS, and turn on IR LEDs. Then, the video of the camera changes to B/W mode.

Camera Operation

MAIN MENU	
1. LENS	MANUAL ↵
2. EXPOSURE	↵
3. BACKLIGHT	---
4. WHITE BAL	---
▶ 5. DAY&NIGHT	NIGHT ↵
6. SMART 3DNR	ON ↵
7. F-DNR	OFF
8. FUNCTION	↵
9. EXIT	SAVE ↵

D&N NIGHT	
▶ 1. BURST	OFF
2. IR SMART	ON ↵
3. IR LED	ON
4. RETURN	RET ↵

- **NIGHT** : The picture is always displayed in black and white. You can turn on or off the burst signal on **NIGHT** mode.
 - **BURST**

{	OFF : You can see clear picture without color noise when BURST function is off.
}	ON : When using some monitor or DVR system, color noise can be seen on the screen. In that case You can select the 'BURST' function 'ON'.
 - **IR SMART** : Can adjust the display saturation as ON or OFF.
 - **IR LED**

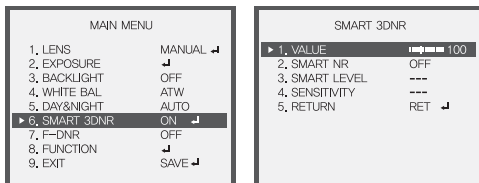
MAIN MENU	
1. LENS	MANUAL ↵
2. EXPOSURE	↵
3. BACKLIGHT	OFF
4. WHITE BAL	ATW
▶ 5. DAY&NIGHT	COLOR
6. SMART 3DNR	ON ↵
7. F-DNR	OFF
8. FUNCTION	↵
9. EXIT	SAVE ↵

- **COLOR** : This picture is always displayed in color.

Camera Operation

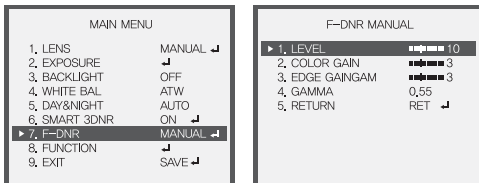
6. SMART 3DNR (3Dimension Digital Noise Reduction)

Improve S/N ratio and more clean the low illumination quality and can be monitoring at night clearly without the image drag and noise phenomenon.



- VALUE : Adjust 3DNR sensitivity to the level value,
- SMART NR : Can select a turn on or off 3DNR sensitivity according the motion,
- SMART LEVEL : Adjust Smart NR sensitivity according the motion to level value,
- SENSITIVITY : Adjust a motion sensitivity,
- RETURN

7. F-DNR

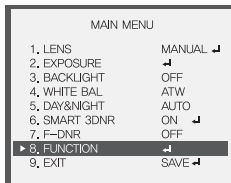


- LEVEL : Adjust setting value at FOG image,
- COLOR GAIN : Adjust color value of the screen at FOG image
- EDGE GAIN : Adjust the vividness of the screen at FOG image,
- GAMMA : Adjust Gamma value,
- RETURN

Camera Operation

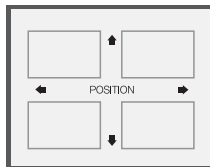
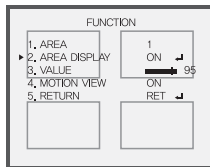
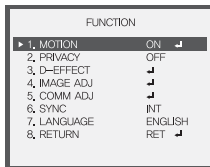
8. FUNCTION

Please position the arrow to point to 'FUNCTION' by using the UP or DOWN button.



MOTION Detects a moving object.

This product has a feature that allows you to observe movements of objects in selected areas on the screen, and the shape '⌂' appear on the screen when movement is detected; hence a single individual can conduct supervision efficiently. The camera detects an object's movement by sensing disparity of outline, and level of brightness and color.

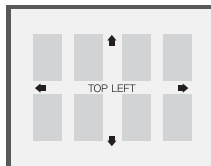
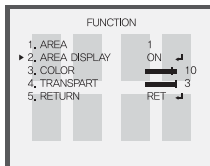
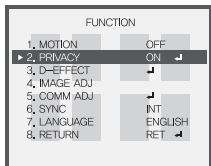


- AREA : You can adjust 4 direction
- AREA DISPLAY : You can choice ON, OFF.
- VALUE :The available range of level is 0 ~100
- MOTION VIEW
- RETURN

Camera Operation

PRIVACY

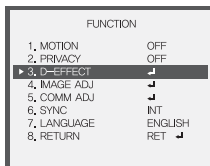
The mask controls about the zone where the privacy is necessary. The total mask is 8 zones.
The each mask color can control .



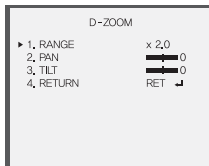
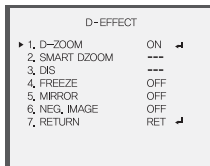
- AREA : You can adjust 8 direction
- AREA DISPLAY : You can choice ON, OFF.
- COLOR : The selected mask can change color.
- TRANSPARENT : The available range of level is 0 ~ 3
- RETURN

D-EFFECT

D-ZOOM, SMART DZOOM, DIS, FREEZE, MIRROR, NEG, IMAGE, RETURN control can be selected.
When the MAIN MENU is on the screen, please position the cursor to D-EFFECT by using the button.

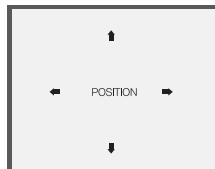
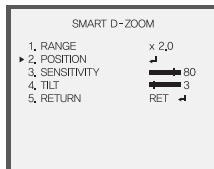
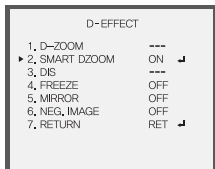


Camera Operation



D-ZOOM

- RANGE : You can use a digital zoom x1,0 ~x 32,0
- PAN (Left or Right) / TILT (Up or Down)
- RETURN



SMART D-ZOOM

- RANGE : Adjust the enlargement value between x2,0~ x 5,0
- POSITION : Appoint the location of digital.
- SENSITIVITY : Adjust the sensitivity.
- TIME : Appoint operating time of digital.
- RETURN

DIS (Digital Image Stabilizer)

- This function mitigate any picture movement to external factors such as wind.

FREEZE

- When using 'FREEZE' function on, you can see the negative picture on the screen.

Camera Operation

MIRROR

- You can choice, (MIRROR / V-FLIP / ROTATE / OFF)



OFF



MIRROR



V-FLIP



ROTATE

NEG. IMAGE

- When using 'NEGA' function on, you can see the negative picture on the screen.

RETURN

IMAGE ADJ

FUNCTION	
1. MOTION	OFF
2. PRIVACY	OFF
3. D-EFFECT	↕
▶ 4. IMAGE ADJ	↕
5. COMM ADJ	↕
6. SYNC	INT
7. LANGUAGE	ENGLISH
8. RETURN	RET ↕

IMAGE ADJ	
▶ 1. SHARPNESS	■■■■■ 20
2. MONITOR	LCD ↕
3. LENS SHADING	OFF
4. DEFECT	↕
5. RETURN	RET ↕

- SHARPNESS : Sharpness level control (0 ~ 31)

- MONITOR : The DISPLAY MONITOR mode can support two kinds of display (CRT/LCD)

IMAGE ADJ	
1. SHARPNESS	■■■■■ 20
▶ 2. MONITOR	LCD ↕
3. LENS SHADING	OFF
4. DEFECT	↕
5. RETURN	RET ↕

MONITOR LCD	
▶ 1. GAMMA	0.55
2. PED LEVEL	■■■■■ 28
3. COLOR GAIN	■■■■■ 128
4. RETURN	RET ↕

MONITOR CRT	
▶ 1. PED LEVEL	■■■■■ 28
2. COLOR GAIN	■■■■■ 128
3. RETURN	RET ↕

Camera Operation

- LENS SHADING : You can select ON, OFF
- DEFECT
- RETURN

COMM ADJ

FUNCTION		COMM ADJ	
1. MOTION	OFF	▶ 1. CAM TITLE	OFF
2. PRIVACY	OFF	2. PROTOCOL	PELCO-D
3. D-EFFECT	⬇	3. RS485	⬇
4. IMAGE ADJ	⬇	4. RETURN	RET ⬇
▶ 5. COMM ADJ	⬇		
6. SYNC	INT		
7. LANGUAGE	ENGLISH		
8. RETURN	RET ⬇		

- CAM TITLE : User writes TITLE / User sets TITLE ON/OFF.
- PROTOCOL: Supporting for PELCO-D.
- RS484 : 1. CAM ID : You can select camera ID from 0 to 255 when using remote control
2. ID DISPLAY : You can select ON, OFF
3. BAUDRATE : 2400, 4800, 9600, 19200, 38400, 57600
4. RETURN

SYNC

- In areas where the supply is at 60Hz(50Hz) , you can synchronize the output phase of multiple cameras using the power synchronization function (Line-Lock) without using a synchronization signal generator.
- INT : Internal Synchronization Type

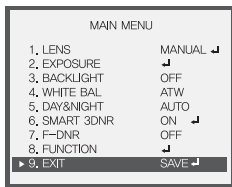
FUNCTION	
1. MOTION	OFF
2. PRIVACY	OFF
3. D-EFFECT	⬇
4. IMAGE ADJ	⬇
5. COMM ADJ	⬇
▶ 6. SYNC	INT
7. LANGUAGE	ENGLISH
8. RETURN	RET ⬇

LANGUAGE

- You can select language. (Default is ENG)

Camera Operation

9. EXIT



- SAVE : Setting window will be off after saving setting value of OSD.
- RESET : Setting window will be off after default as basic value
- CANCEL : Setting window will be off while not saving the data.

