ENFORCER®

EV-Y6501-A3WQ

4-in-1 HD TVI, CVI, AHD, Analog Covert PIR Camera

On-Screen Display Manual

Features:

- Select between multiple formats: TVI, CVI, AHD, and Analog
- Joystick OSD Control
- D-WDR (Digital Wide Dynamic Range)
- Camera is hidden in a non-functioning PIR sensor housing

- $1/_{2.8}$" 5MP Sony CMOS
- 3.7mm Covert pinhole lens
- 18 Covert IR LEDs for discreet monitoring
- 1440p Resolution
- 2DNR (2D Digital Noise Reduction)

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Table of Contents:

Programmable Features:

- **Multiple Output Formats**
  Select between multiple different formats: AHD, CVI, TVI, and CVBS

- **Digital Wide Dynamic Range (D-WDR)**
  Provide clear images even under circumstances where backlight illumination can vary

D-WDR OFF   **D-WDR ON**

- **Exposure**
  Adjust the shutter speed, automatic gain control (AGC), and defog settings

- **Back Light Compensation (BLC)**
  Adjust the exposure to properly display the subject in front of bright light sources

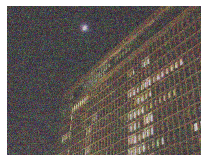**BLC OFF**   **BLC ON**

- **White Balance**
  Adjust the picture's color temperature/image color
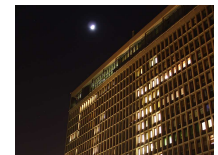
- **Day & Night**
  Adjust the level of ambient light that triggers the camera to switch between color and B/W modes

- **Noise Reduction (DNR)**
 Adjust for less interference on the screen in an area with low illumination

DNR OFF   **DNR ON**
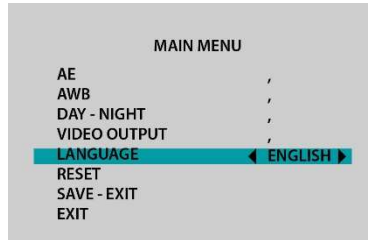

How to use the OSD Controller:

1. Press down on the joystick to open the on-screen display (OSD) menu.
2. Use the joystick to navigate the OSD menu.
3. To select an item, press down (enter) on the joystick.
4. To change the output format:
   a. Using the OSD controller, press the controller in the direction of the desired setting, hold for 5 seconds, and release when the camera restarts.

Up

Camera

Left

UP

L   R

DN

Right

Power
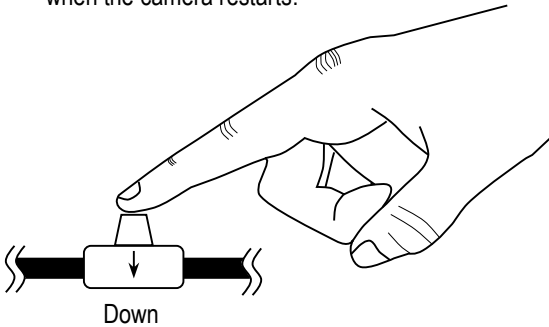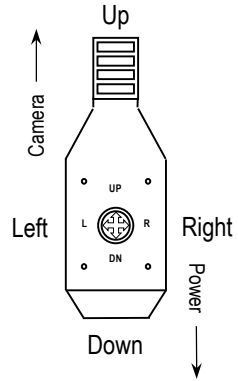
Down

Down

Direction	Format Setting
Up	CVBS
Down	CVI
Left	AHD
Right	TVI

Navigating the OSD:

1. Press down (enter) on the joystick.
   The Main Menu will be displayed on the monitor.
2. Move to and highlight the required function by moving the joystick up and down.
3. Select the required function by pressing enter on the joystick.
4. Change the menu setting by moving the joystick left or right.
5. After choosing the settings, move the cursor to EXIT and select the option to SAVE & END, RESET, or NOT SAVE.
6. Press enter on the joystick to make the selection and leave the OSD menu.

NOTE: A submenu is available where the menu displays ↵.

MAIN MENU

AE   ↵
AWB   ↵
DAY - NIGHT   ↵
VIDEO OUTPUT   ↵
LANGUAGE   ◄ ENGLISH ►
RESET
SAVE - EXIT
EXIT

Menu Diagram:

MAIN MENU	SETTING		SETTING OPTION
AUTO EXPOSURE (AE)	BRIGHTNESS		LEVEL: 1~20 (DEFAULT:8)
	EXPOSURE MODE	GLOBE	DEFAULT
		BLC	LEVEL: 1~9 (DEFAULT:1)
		FLC	LEVEL: 1~9 (DEFAULT:1)
AUTO WHITE BALANCE (AWB)	ATW		DEFAULT
	MWB	RGAIN	LEVEL; 1~127 (DEFAULT:-127)
		BGAIN	LEVEL; 1~127 (DEFAULT-:127)
DAY / NIGHT	EXT		DEFAULT
	AUTO		N/A
	COLOR		N/A
	B/W		N/A
IMAGE ENHANCEMENT	CONTRAST		1~16 (DEFAULT:3)
	SHARPNESS		1~16 (DEFAULT:4)
	COLOR GRAIN		1~16 (DEFAULT:5)
	DNR		1~16 (DEFAULT: 4)
	MIRROR		H,V,HV,DEFAULT
	D-WDR		OFF, ON (DEFAULT: OFF)
VIDEO OUTPUT	TVI		5MP@20FPS, 5MP@12.5FPS, 4MP@25FPS, 4MP@30FPS, 4MP@15FPS, 1080P@25FPS, 1080P@30FPS
	CVI		4MP@25FPS, 4MP@30FPS, 4MP@15FPS, 1080P@25FPS, 1080P@30FPS
	AHD		5MP@20FPS, 5MP@12.5FPS, 4MP@25FPS, 4MP@30FPS, 4MP@15FPS, 1080P@25FPS, 1080P@30FPS
	CVBS		NTSC, PAL
EXIT	SAVE & END		
	RESET		
	NOT SAVE		

Auto Exposure:

This function is used to select the camera's exposure settings, including brightness, and exposure modes: Globe and BLC.

1. Select Auto Exposure "AE" on the Main Menu screen.
2. Select the desired Exposure operation by moving the joystick up or down, and select the desired setting by moving the joystick left or right and pressing enter to enter the sub-menu (if applicable).

EXPOSURE

BRIGHTNESS   8
EXPOSURE MODE   ◄ BLC ►
LEVEL   1
RETURN
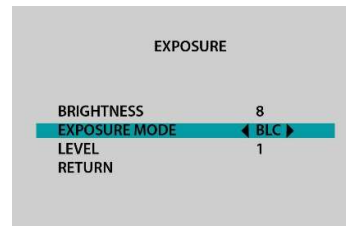
Auto Exposure (Continued):

- **BRIGHTNESS**: Adjust the camera's brightness from 1~20 (Default: 8)

 Exposure modes:

- **GLOBE:** Automatically adjusts light level based on environment. (Default)

- **BACKLIGHT (BLC)**: This function is used to control the light level to overcome strong backlight conditions. Select Back Light Compensation (BLC) to correct the exposure of the subjects that are in front of a strong backlight. Enter menu to adjust settings
  o LEVEL: Adjust the BLC level from 1~9 (Default: 1).

- **FLC:** This function is used to control the light level to overcome strong front light conditions.
  o LEVEL: Adjust the FLC level from 0~9 (Default 1)

- **RETURN:** Return to the MAIN MENU screen


BLC OFF

BLC ON

Auto White Balance:

This function is used to adjust the color temperature and image color of the picture.

1. Select WHITE BAL on the Main Menu screen.
2. Select the desired White Balance operation by moving the joystick to the left or right and pressing enter to enter the sub-menu (if applicable).
3. Use the joystick to adjust the settings.
4. Select RETURN to return to the Main Menu screen.

ATW: Select Automatic Tracking White Balance (ATW) to automatically adjust the white balance color temperature range from 2,500°K~9,500°K when the image color temperature changes.

- **MANUAL:** Select MANUAL to manually adjust the blue and red color temperature values for the area.
  o BLUE: Set the blue gain value. Adjust from 0~127 (Default: 127).
  o RED: Set the red gain value. Adjust from 0~127 (Default: 127).
 o RETURN: Return to the MAIN MENU screen.
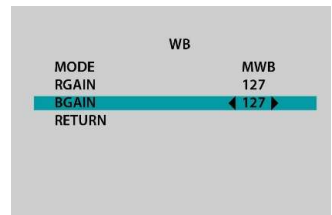
Day & Night:

This function is used to adjust the transition between color and black & white modes automatically based on the current lighting conditions.

1. Select DAY & NIGHT on the Main Menu screen.

DAY/NIGHT

MODE	◀ EXT ▶
RETURN	

Image Enhance:

2. Select the desired Day & Night operation by moving the joystick to the left or right and pressing enter to enter the sub-menu (if applicable).
3. Use the joystick to adjust the settings.
4. Select RETURN to return to the Main Menu screen.
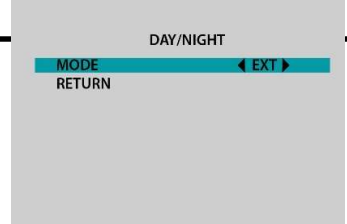
EXT: External (EXT) mode to automatically switch between Color and B/W modes by using the integrated IR CDS sensor.

This function accesses the video image enhances functions such as sharpness, contrast, color gain, DNR, mirror, and D-WDR.

1. Select Image Enhance (IE) on the Main Menu screen.
2. Select the desired menu operation by moving the joystick to the left or right and pressing enter to enter the sub-menu (if applicable).
3. Use the joystick to adjust the settings.

IMAGE ENHANCE

CONTRAST	2
SHARPNESS	4
COLOR GAIN	3
DNR	4
MIRROR	DEFAULT
D- WDR	◀ OFF ▶
RETURN	

- **CONTRAST:** The difference between the lightest and darkest parts of an image or video stream.
  o LEVEL: Higher values will result in increased difference of light and dark.Adjust from 1~16 (Default: 3).

- **SHARPNESS**: Adjust to increase the contrast of edges in a video or image.
  o LEVEL: Higher values will result in increased edge contrast detection. Adjust from 1~16 (Default: 4).

- **COLOR GAIN:** This function is used to reduce or increase the color saturation intensity. Select the desired COLOR GAIN setting by moving the joystick left or right.
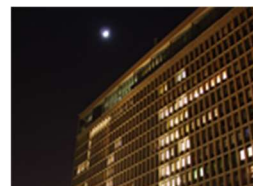 o LEVEL: Higher values increase the Color Gain effect. Adjust from 1~16 (Default: 5).

DNR OFF

- **DIGITAL NOISE REDUCTION (DNR)**: This function is used to control the reduction of digital noise in low-light conditions. Select the desired setting by moving the joystick left or right.
  o LEVEL: Higher values increase the DNR effect. Adjust from 1~16 (Default: 4).

DNR ON

Image Enhance (Continued):

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- **MIRROR:** Adjust the camera's mirror settings to change the viewing orientation of the camera.
  - o H: Flip the video orientation horizontally.
  - o V: Flip the video orientation vertically.
  - o HV: Flip the video orientation horizontally and vertically.

- **D-WDR:** Adjust the camera's digital wide dynamic range (D-WDR) settings to provide clear images even under intense back light conditions.
  - o OFF: Turn D-WDR off (Default OFF).
  - o ON: Turn D-WDR on.

- **RETURN:** Return to the MAIN MENU screen

D-WDR OFF

D-WDR OFF

Video Output:

This function is used to change the Video Output and Video Standards.
1. Select VIDEO OUTPUT on the Main Menu screen.
2. Select the desired operation by moving the joystick to the left or right and pressing enter.

HD:TVI (Default): 5MP@20FPS, 5MP@12.5FPS, 4MP@25FPS, 4MP@30FPS, 4MP@15FPS, 1080P@25FPS, 1080P@30FPS
CVBS: NTSC, PAL
AHD: 5MP@20FPS, 5MP@12.5FPS, 4MP@25FPS, 4MP@30FPS, 4MP@15FPS, 1080P@25FPS, 1080P@30FPS
CVI: 4MP@25FPS, 4MP@30FPS, 4MP@15FPS, 1080P@25FPS, 1080P@30FPS

- **RETURN:** Return to the MAIN MENU screen.

Exit:

This function is used to apply all OSD changes and exit the menu screen, reset all values to their factory defaults, or exit the menu screen without saving any changes.

1. Select EXIT on the Main Menu screen.
2. Select the desired operation by moving the joystick to the left or right and pressing enter.
- **SAVE & END**: Save all OSD changes and exit the OSD menu.
- **RESET**: Restore all OSD settings to factory defaults and exit the OSD menu.
- **NOT SAVE**: Exit the OSD menu without saving any change

Troubleshoot:

The screen is black	• Check that the camera is powered up • Check that the power supply's polarity is correct • Check that the monitor is powered up • Check that the video cable connecting the camera to the monitor is connected properly
The image is foggy or washed out at night	• Check that there are no objects very close to the camera • Check that there are no highly reflective objects in the scene
The screen image is dim	• Clean the lens using a soft, clean cloth • Check that the light source is adequate
The screen image has poor contrast	• Adjust the monitor's contrast knob • Change the position of the camera
The screen image flickers	• Change the position of the camera, check cables and format setting
The screen image is distorted	• Change the position of the camera, check cables and format setting
The camera case is hot	• Check that the correct power supply is in use
IR LEDs do not turn on	• Check that the correct power supply is in use

IMPORTANT: Users and installers of this product are responsible for ensuring this product complies with all national, state, and local laws and statutes related to monitoring and recording audio and video signals. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or statutes.

FCC COMPLIANCE STATEMENT

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.
Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

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