HDSDI

HIGH DEFINITION SERIAL DIGITAL INTERFACE OSD CONTROL - USER'S GUIDE

MENU

SETUP MENU

EXPOSURE

MODE SENS_UP BRIGHTNESS LENS SHUTTER AGC FREQ RETURN

WHITE BAL

AWB CHROMA RETURN

IMAGE

SHARPNESS MIRROR FLIP FREEZE DZOOM PRIVACY SHADING HLM ACE RETURN

WDR / BLC

OFF WDR BLC

DNR

OFF LOW MIDDLE HIGH

DAY&NIGHT

AUTO COLOR B&W EXTERN MDIR

MOTION

OFF SET

SFRIAL

CAM ID ID DISPLAY BAUDRATE RETURN

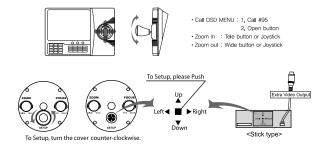
SYSTEM

DOUT SCALE GAMMA SET DOUT FORMAT DEFECT DET FCM MODE FACTORY SET RETURN

EXIT

SETTINGS

Settings can be made using the 5 buttons located on the back of the camera.

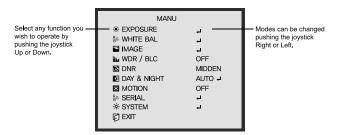


Note

- . 'MANUAL' menu for fixed lens models, 'DC' menu for auto iris models.
- · Box type camera have both Lens menu.
- 1. Please press the SET button
 - · Settings can now be made. The SET menu is displayed on the monitor.
- 2. Please select any function you wish to activate by pushing the button Up or Down
 - The cursor position will appear green on your screen.

 You can push the button Up or Down to change function you wish to change.

MANU



- 3. Please press the button Right or Left if you wish to change mode.
 - When the button is pressed Right or Left, available values and mode are displayed in order, Please keep press the button until you get the mode you wish.
- 4. Please select "EXIT" and then press the button to finish the setting.

SETUP

EXPOSURE, WHITE BAL, IMAGE, WDR / BLC, DNR, DAY&NIGHT, MOTTION, SERIAL, SYSTEM, EXIT control can be selected.

 When the MAIN MENU is on the screen, please position the cursor to SETUP by using the button. And then press the button.

* EXPOSURE

- When the SETUP menu screen is displayed, select EXPOSURE by using the Up and Down buttons so that arrow indicates EXPOSURE.
- · Select a desired mode using the Up and Down buttons.



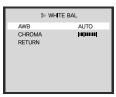


- SENS UP : OFF / x2 / x3 / x4
 - Sens-up is realized in the most low illumination quality and it provides the image without a noise at the low illumination quality.
 - When it is night or dark, the camera automatically detects the light level and maintains a clear picture if this mode is activated.
 - . When "SENS UP" is on, shutter cannot be adjusted.
- BRIGHTNESS: Left Key (Level DECREMENT), Right Key (Level INCREMENT)
- LENS: When using BUILT IN LENS, the type of the lens is able to fix. (DC / MANUAL)
- AE MODE: You can select INDOOR / OUTDOOR / DEBLUR
- SHUTTER:
 - You can select either auto or manual shutter
 - (1/30, 1/60, 1/120, 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000, 1/60000)
 - . Shutter is set to "Manual" when DC Lens is selected
 - . Shutter is set to "Auto" when Manual Lens is selected
- AGC (Auto Gain Control)
 - . The higher the gain level, the brighter the screen but the higher the noise.
- FREQ (AC Power Frequency Set)
 - You can select either 50Hz or 60Hz
 - · Do the setting the frequency of the commercial power in a camera and prevent Flicker state,
- RETURN

% WHITE BAL

- . Use the White Balance function to adjust the screen color.
- When the SETUP menu screen is displayed, select "White Bal." by using the Up and Down buttons so that the arrow indicates "White Bal."
- . Select a desired mode using the Up and Down buttons.





Select one of the following 2 modes, as appropriate for your purpose.

- AWB

- AUTO : Default This function continuously adjusts the white balance automatically to adapt to changes in lighting conditions.
- AUTOEXT: It is a mode to do a halogen and the special lighting to White detection.
- PUSHING: This function adjusts the white balance regardless of the subject conditions.
- MANUAL : User perset
 - KELVIN : LOW / MIDDLE / HIGH
 - R-GAIN: Left Key (Level DECREMENT), Right Key (Level INCREMENT)
 B-GAIN: Left Key (Level DECREMENT). Right Key (Level INCREMENT)
 - RETURN
- CHROMA : Left Key (Level DECREMENT), Right Key (Level INCREMENT)
- RETURN

NOTE

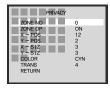
- Under the following conditions the WHITE BALANCE function may not operate properly. In such cases, please select the AWB mode.
- When the object's surroundings have a very high color temperature (eg. a clear sky and sunset)
- When the object's surroundings are dark
- If the camera directly faces a fluorescent light or is installed in a place where there are considerable changes in illumination, the WHITEBALANCE function may become unstable.

IMAGE

MANU		
* EXPOSURE	_	
§ WHITE BAL		
■ IMAGE		
WDR / BLC	OFF	
■ DNR	MIDDEN	
DAY & NIGHT	AUTO -	
■ MOTION	OFF	
8 SERIAL	4	
	4	
EXIT EXIT		

■ IMAGE		
SHARPNESS	8	
MIRROR	OFF	
FUP	OFF	
FREEZE	OFF	
DZOOM	0	
PRIVACY	OFF	
SHADING	OFF	
HLM	OFF	
ACE	OFF	
RETURN		

IMAGE ■		
SHARPNESS MIRROR FLIP FREEZE DZOOM	8 OFF OFF OFF 0	
PRIVACY SHADING HLM ACE RETURN	OFF OFF OFF	



- SHARPNESS: Control 0 to 10 by right and left button.
- MIRROR / FLIP: You can select function by using LEFT or RIGHT button.







- FREEZE: The video can be stopped.

- DZOOM: You can use a digital zoom of 0 ~ x 112
- PRIVACY: This modes conceals the areas you do not wish to appear on the screen
 - · OFF: Cancels the PRIVACY mode
 - · SET : Operates the PRIVACY mode
- . ZONE NO : Adjust the size of masking area from 0 to 31
 - ZONE OP : On or off masking
- X POS : Adjust the horizontal position of masking area from 0 to 60
- Y = POS : Adjust the vertical position of masking area from 0 to 40
- X SIZ : Adjust the width of masking area from 0 to 40
- Y SIZ : Adjust the height of masking area from 0 to 40
- COLOR $\;\;$: WHT / YEL / CYN / GRN / MAG / RED / BLU / BLK
- . TRANS : Adjust the transparency of masking area from 0 to 40
- RETURN

- SHADING: When using wide angle lens, you can compensate darkness of corner on the screen.
- HLM (High Light Mask)

HLM (High Light Mask) funcion is being prevented against headlights of vehicle effectively. It is the most suitable function to see license plates at night





- LEVEL : Left Key (Level DEC), Right Key (Level INC)
- . COLOR: WHT / YEL / CYN / GRN / MAG / RED / BLU / BLK
- RFTURN
- ACE (Adaptive Color & Contrast Enhancement): OFF / ON



ACE black performs an image Enhancement processing to enhance visibility of an image by changing the brightness values to the level that people can recognise the change

This processing technique is equivalent to the dynamic range reduction technique. Which converts the HDR (High Dynamic Range) into the restricted LDR

- (Low Dynamic Range)
- RETURN

IL WDR / BLC

· OFF: function does not operate.





· WDR (Wide Dynamic Range)

Realize the improved backlight compensation function more than existed WDR (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.

- WDR WGT: The available range of level is 0 ~ 4
- RETURN

· BLC (Backlight Compensation)

When there is a strong backlight behind the object, clear images of the background as well as the object can still be obtained by using the BLC function.





- BLC WINDOW: You can choice ON or OFF
- BLC POS-X: The available range of level is 0 ~ 20
- BLC POS-Y: The available range of level is 0 ~ 20
- BLC SIZ=X: The available range of level is 0 ~ 20
- BLC SIZ-Y: The available range of level is 0 ~ 20
- RETURN

DNR

DNR (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.



- OFF: DNR function does not operate.
- LOW / MIDDLE / HIGH: You can select 'LOW', 'MIDDEN' or 'HIGH' menu as DNR condition.

№ DAY&NIGHT



AUTO

DAY & NIGHT		
AGC THRS MARGIN DELAY RETURN	104 30 LOW	

MDIR, EXTERN

SATURATE Institution CDS D \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DAY & NIGHT		
RETURN LOW	CDS D > > N CDS D < < N DELAY	jennojoj	

- AUTO : The camera will automatically show color image in high lux and black / white image in low lux.
- COLOR : This picture is always displayed in color.
- *B&W : The picture is always displayed in black and white.
- You can turn on or off the burst signal on B/W mode.
- EXTERN: Select this when the color is controlled by CDS sersor.
- MDIR : IR LED is normally off at Night mode. As soon as it detects any motion, IR LED will be operated automatically. When detecting motion is finished, it will be off again.
- ▶ May not work for some models

MOTION

This product has a feature that allows you to observe movement of objects in 3 different areas on the screen, and the words 'MOTION' appear on the screen when movement is detected. you can monitor activity more efficient.





- OFF: MOTION mode is cancelled.
- SET: Any motion in the selected areas is observed.
 - · Please select the area you wish to observe from the areas in SELECT mode.
 - · Please select ON mode for the chosen area.
 - Please adjust the level of observation by using MOTION mode.
 - . Please press the RETURN to save the changes and complete the setting.

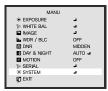
S SFRIAL





- CAM ID: You can select camera ID from 0 to 254 when using remote control.
- ID DISPLAY: You can select ID ON or OFF
- BAUDRATE: You can select 2400 / 4800 / 9600 / 19200/ 57600 / 115200 bps. Support "pel-D protocol"

★ SYSTEM





- DOUT SCALE: - FULL: Full Image out / COMP: Compress Image out

The available image to level is 16 ~96

- GAMMA SET: You Can Select 0.40 / 0.45 / 0.50 / 0.55 / 0.60 / 0.65 / 0.70 / 0.75

- DOUT FORMAT: You can select (1080P / 720P)

- FRAME: Set output frame to 25 or 30. (Be set 50 or 60 at 720P mode.)

DOUT SCALE GAMMA SET DOUT FORMAT FRAME DEFEC DET FCM MODE FACTORY SET RETURN	COMP 1 0.55 1080P 30 OFF OFF ON	
RETURN		

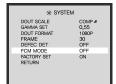


- DEFECT DET

· OFF: DEFCET DET Mode is off

· ON: Close the lens to block the light.

Adjust left & right buttons and press "SET" button to automatically start the mode.



FOCUS CONFIRM MODE

SET KEY: END

Adjust the Lever to Focus

- FCM MODE (In this mode, the instruction flickers.)
 - · OFF: FOCUS ADJ Mode is off.
 - · ON: Zoom mode is activated automatically.
 - Adjust the focusing knob. The focusing is displayed on the screen.
 Press the "SET" button for desired focus.

- FACTORY SET : Factory initialize

- RETURN

МЕМО