HDSDI

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

MENU

SETUP MENU

EXPOSURE

SENS UP BRIGHTNESS LENS AE MODE SHUTTER AGC FREQ RETURN

WHITE BAL

AWB CHROMA RETURN

IMAGE

SHARPNESS DEFOG DZOOM MIRROR FLIP FREEZE PRIVACY SHADING HLM ACE RETURN

WDR / BLC

OFF WDR BLC

DAY&NIGHT

MODE RETURN

DNR

OFF LOW MIDDLE HIGH

MOTION

OFF SET

SERIAL

CAM ID ID DISPLAY BAUDRATE RETURN

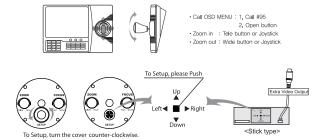
SYSTEM

DEFECT DET GAMMA DOUT SCALE DOUT FORMAT CVBS FRAME FOCUS ADJ FACTORY SET RETURN

EXIT

SETTINGS

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

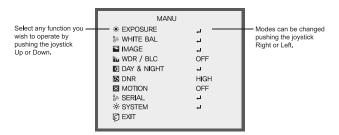


Note

- . '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, DAY&NIGHT, DNR, 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 / x5 / x6 / x7 / x8
 - 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 : Manual Lens mode : you can select NORMAL / DEBLUR
 - DC Lens 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.



8º WHITE BAL	
AWB CHROMA RETURN	AUTO III IIIIII







- 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,
- PRESET
 - : This function adjusts the white balance regardless of the subject conditions
- MANUAL

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

☑ IMAGE

MANU	
* EXPOSURE	J
% WHITE BAL	4
■ IMAGE	a .
■ WDR / BLC	OFF
DAY & NIGHT	4
■ DNR	HIGH
■ MOTION	OFF
& SERIAL	4
* SYSTEM	4
☑ EXIT	

■ IMAGE	
SHARPNESS DEFOG D=ZOOM MIRROR FLIP FREEZE PRIVACY SHADING HLM ACE RETIRN	6 SET J 0 OFF OFF OFF OFF OFF

IM IM	AGE
SHARPNESS	6
DEFOG	OFF
D-ZOOM	0
MIRROR	OFF
FLIP	OFF
FREEZE	OFF
PRIVACY	SET -4
SHADING	OFF
HLM	OFF
ACE RETIRN	OFF

■ IMAGE		
SHARPNESS DEFOG D-ZOOM MIRROR FLIP FREEZE PRIVACY SHADING HLM ACE RETIRN	6 OFF OFF OFF OFF OFF OFF SET J	

- -SHARPNESS: Control 0 to 10 by right and left button.
- DEFOG: MODE (you can select AUTO / MANUAL)

 LEVEL (you can select LOW / MIDDLE / HIGH)



- -DZOOM: You can use a digital zoom of 0 ~ x127
- -MIRROR / FLIP: You can select function by using LEFT or RIGHT button.







-FREEZE: The video can be stopped.

- -PRIVACY: This modes conceals the areas you do not wish to appear on the screen.
- -SHADING: When using wide angle lens, you can compensate darkness of corner on the screen.
- -HLM (High Light Mask): HLM 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
- RETURN
- -ACE (Adaptive Color & Contrast Enhancement): OFF, LOW, MIDDLE, HIGH 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 $0\sim4$
- 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 \sim 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

DAY&NIGHT



. MDIR: (Motion Detection IR)

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



ME	DIR -
SEARCH ON	15SEC-4
ANTH-SAT. DELAY RETURN	[mi)iii LOW

. AUTO: The camera will automatically show color image in high lux and black / white image in low lux.



	AUTO	
AGC THRS		[majana]
MARGIN		[mmmin]
DELAY		LOW
RETURN		

. EXTERN: Select this when the color is controlled by CDS sersor,



	AUTO
ANTI-SAT.	[majana]
DELAY RETURN	LOW

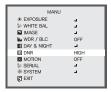
- . COLOR : This picture is always displayed in color,
- *B&W : The picture is always displayed in black and white.

 You can turn on or off the burst signal on B/W mode.

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.

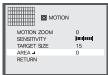


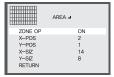
- OFF: DNR function does not operate,
- LOW / MIDDLE / HIGH: You can select 'LOW', 'MIDDEN' or 'HIGH' menu as DNR condition,

MOTION M

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.
- MOTION ZOOM: You could set from "0" to "127" and D-Zoom is operated to the setting value when the moving is detected,
- · SENSITIVITY: Set the sensitivity of the moving detection.
- TARGET SIZE: Set the target thing size to detect the moving, (0~50)
- · AREA: Set the size of the motion range.
- RETURN

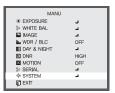
Serial





- 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/ 38400 / 57600 / 115200 bps, Support "pel-D protocol"

★ SYSTEM

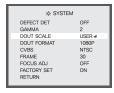


- SYSTEM	4
DEFECT DET	OFF
GAMMA	2
DOUT SCALE	USER -■
DOUT FORMAT	1080P
CVBS	NTSC
FRAME	30
FOCUS ADJ	OFF
FACTORY SET	ON
RETURN	



- 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.
- GAMMA SET: You Can Select 0/1/2/3/4





- DOUT SCALE: The available image to level is (0~20)
- DOUT FORMAT: You can select (1080P / 720P)
- CVBS: you can selsct (NTSC / PAL)
- FRAME: 1080P: Set output frame to 25 or 30. (Be set NTSC or PAL mode)
 720P: Set output frame to 50 or 60. (Be set NTSC or PAL mode)

. Set output frame to 50 or 60, (Se set INTSC or FAL mod



- FOCUS ADJ: Menu > Focus Assist > On
 - . You could see a green box when you move (control) the lens slowly.
 - . When you move the lens to disappear the green box, the focus is fixed.
 - You could fix the one box in three boxes.
 - Left Box : Focus for Low contrast area
 - Middle Box : Focus for Middle contrast area
 - Right Box : Focus for high contrast area
- FACTORY SET: Factory initialize
- RETURN

Above specifications may be changed without any notice.

МЕМО

МЕМО

