

Features

- 1/3" SONY SuperHAD CCD II (Min. Illumination)
- Privacy Masking(8 Zone Selectable)
- 3 Digital Noise Reduction (3-DNR) / D - WDR
- Multi Language (Korean,English,chinese,Japanese)



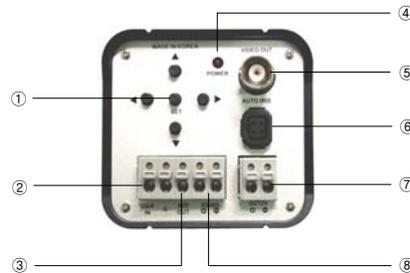
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Specification

Item	C805-WDR
Imaging Sensor	1/3" SONY Super HAD CCD II
Signal System	NTSC : 525 Lines PAL : 625 Lines
Scanning System	2:1 Interlace
Scanning Frequency	H:15.734 ㎐ / V:59.94 Hz H:15.625 ㎐ / V:50 Hz
S/N Ratio	More than 52dB (AGC Off)
Horizontal Resolution	Horizontal : 600 TV-Line (Color)[Min] / 700 TV-Line (B/W)[Min]
Video Output Level	1.0 Vp-p (75Ω, Composite)
Lens	C / CS MOUNT
Min. Illumination	Color : 0.03Lux(50IRE@F1.2) , 0.00019(Sens-up.256x)
Sync System	Internal / Line Lock(Dual Option)
O.S.D	Built-in(Multi-Language Support)
Electronic Shutter Speed	Auto / Flk (NTSC : 1/60sec ~ 1/100,000sec) (PAL : 1/50sec ~ 1/100,000sec)
White Balance	AWB / AWC-SET / MANUAL / INDOOR / OUTDOOR/ATW
Backlight Compensation	BLC / HS.BLC / Off
D - WDR	INDOOR / OUTDOOR / Off
Gain Control	Low / Middle / High / Off
Adjust	CONTRAST/SHARPNESS/CB_GAIN/CR_GAIN (Level Adjustable)
Language	Korean / English / Chinese / Japanese (Selectable)
Camera Title	On / Off (Selectable)
Day & Night	Auto / B/W / Color (Selectable) / EXT
M/D(Alarm) Output	There is no motion 0V/There is motion 5V Less than 10mA
Digital Zoom	On / Off(0x ~ 32x)
Privacy Masking	On / Off (8 Zone Selectable)
3D Noise Filter(3D-NR)	On / Off(Selectable)
Sens - up(Frame Integration)	On / Off(Selectable limit ~ 256x)
D - EFFECT	Freeze / Mirror / D-Zoom / Gamma / NEG.IMAGE
Protocol	Pelco - D
Communication	RS - 485[Baud Rate : 2400 ~ 57600]
Supplied Voltage	DC12 ± 10%
Power Consumption	Max. 2.0W[140mA]
Dimension(WxHxD)	65(W)*60(H)*119.6(D)mm
Weight	Approx. 250g

Set up and Function

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① Function Set Up Button

- SET Button : Displays the menu on the screen. Press the button to confirm status or after changing a selected item.
- Up and Down Button : Used to move the cursor up or down in the menu screen to select a desired menu item.
- Left and Right Button : Used to move the cursor left or right in the menu screen or to change the value of the selected item.

② Day & Night Input Port

- You can switch to Day & Night mode by connecting an external signal to this port.

③ Motion Detection Output port

- Motion Detection signals are output through this port

④ Power Led

- When power is properly connected, this LED comes on.

⑤ Video Output Port

- Video signals are output through this port. Connect this port to the Video IN port of a monitor

⑥ Auto Iris Lens Connector

- Used to connect Auto Iris Lens Plug. You can change the Lens type (DC / Video) on OSD Menu

⑦ Power Input Port

- Connect the power as specified for each model.

⑧ RS-485 Control Port

- You can control SETUP Menu through this port by using external controllers like a remote controller that RS-485 Communication is supported.

RS-485 Interface

The camera can be controlled by using external controllers like a remote controller.

1. To control by PC

- Connect the RS-485 control port of the camera and the serial cable through an RS-485 converter EX) PC Serial Port (COM1)→Serial Cable→RS-485 Converter→Camera RS-485 Converter Port

2. To Control by DVR or System Controller

- Connect the RS-485 cable(TRX+, TRX-) to the port of RS-485 control board that is connected with DVR or System controller

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485 Control Board Connection Port	RS-485 Control Port
(+) CONNECTION TERMINAL (TRX+)	485 +
(-) CONNECTION TERMINAL (TRX-)	485 -

* RS-485 Communication establishment initial value

Item	Camera ID	BAUD RATE	UART MODE	PET PKT
Initial value	1	9600	8 - NONE - 1	Enable



Notes

- To control the camera by constructing an additional controller, use Pelco-D portocol.

Function Menu Structure

Function Menu				
LENS	■ DC	■ VIDEO	■ MANUAL	
EXPOSURE	■ SHUTTER	■ BRIGHTNESS	■ AGC	
	■ SENSE-UP	■ BLC/HSBLC	■ D-WDR	
WHITE BAL	■ AWB	■ AWC-SET	■ MANUAL	
	■ INDOOR	■ OUTDOOR	■ ATW	
DAY NIGHT	■ COLOR	■ AUTO	■ EXT	■ B/W
3 DNR	■ ON	■ OFF		
SPECIAL	■ CAM TITLE	■ D-EFFECT	■ RS485	■ MOTION
	■ PRIVACY	■ SYNC	■ LANGUAGE	
ADJUST	■ SHARPNESS	■ BLUE	■ RED	
RESET	■ FACTORY			
EXIT				

How to use the camera



Notes

- An item with the , you can move to sub menu pressing SET button
- An item with the , icon is unavailable due to function settings.

LENS

● Using this function, you can control screen brightness

1. When the SETUP menu screen is displayed, select 'LENS' by using the Up and Down buttons so that the arrow indicates 'LENS'.

2. Select the connected type by using Left and Right buttons

▶ DC/VIDEO : Select Auto Iris Lens

- When DC is selected, you can control screen brightness. The range of brightness control is between 1 and 100.

Adjust the brightness appropriately for optimal screen brightness.

- MANUAL : Select Manual Lens

Notes

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- Some lenses may not work properly, depending on the setting of the Brightness Level.
- When using a video-type Auto Iris Lens
 - ① Adjust the ALC adjustment terminal on the lens appropriately. In general, set it to AV.
 - ② It may not work properly depending on the installed lens. Set the Level VR of the lens to the optimal value.
 - ③ Set the AGC to OFF and adjust the lens VR to an appropriate brightness.
 - ④ Adjust the Lens VR, adjust the BRIGHTNESS, and then check if the screen brightness changes properly. Otherwise, adjust the Lens VR again.

EXPOSURE

1. When the SETUP menu screen is displayed, select 'EXPOSURE' by using Up and Down buttons. So that the arrow indicates the 'EXPOSURE'.

2. Select a desired mode using the Up and Down buttons.

▶ SHUTTER : You can select either auto or manual shutter.

- A.FLK : Select this when you experience picture flicker

▶ AGC : You can adjust it Low, Middle and High level.

The higher the gain level, the brighter the screen but the higher the noise.

▶ BLC : Enables a user to directly select a desired area from a picture, and to view the area more clearly

▶ HS-BLC : If there is a high light installed in a limited environment such as an apartment parking garage or gas station entrance, removing the high light makes it possible to view car license plates efficiently.



HS BLC OFF

HS-BLC ON

- DAY : Even in normal daylight conditions, the HS-BLC is activated.

- NIGHT : If a high light that is larger than certain size is present on the screen remove the high light to see car license plates clearly.



- Enable a user to select a mask of high light area from a picture.

▶ WDR : If there are bright area and dark area on the screen at the same time, this function makes both areas to be in clear image

- WDR can be selected 3 steps OFF / INDOOR / OUTDOOR



WDR ON



WDR OFF

WHITE BALANCE (White Bal.)

- When SETUP menu screen is displayed, select 'White Bal.' by using Up and Down buttons so that the arrow indicates White Bal.

✳ Select one of the following 6 modes, as appropriate for your purpose

- ▶ **AWB** : Select this when the color temperature is between 2,000°K and 18,000°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. Adjust the [BLUE] and [RED], according to the changing of color on the screen
- ▶ **INDOOR** : Select this when the color temperature is around 3,100°K.
- ▶ **OUTDOOR** : Select this when the color temperature is around 5,100°K.
- ▶ **ATW** : Select this when the color temperature is between 2,500°K and 9,800°K.

Notes

- ⊙ White balance may not work properly under the following conditions. In this case, select the AWC mode.
 - ① When color temperature of environment surrounding the subject is out of the control range
 - ② If the camera towards a fluorescent, the White Balance operation may become unstable

DAY/NIGHT

● You can display pictures in Color or Black and White.

- When the SETUP menu screen is displayed, select 'DAY/NIGHT' by using the Up and Down buttons so that the arrow indicates 'DAY/NIGHT'

- ▶ **COLOR** : The picture is always displayed in color.
- ▶ **AUTO** : The mode is switched to color in a normal environment, but switches to B/W mode when ambient illumination is low. To set up the switching time or speed for auto mode, press the SET button
 - Delay : You can select the duration time about changing the day/night mode.
 - S / E - Level : You can select brightness of illumination about changing the day/night mode.
 - > The brightness of illumination is changeable by installed environment.
- ▶ **EXT** : This mode allows you to apply a desired filter to external signals.

Notes

- ⊙ When using a Video Auto Iris Lens, if you set the lens level to low, automatic switching between Color and Black and White may not occur.
- ⊙ You cannot control the DAY/NIGHT menu when AGC in the EXPOSURE menu is 'OFF'. At this time, the exchange between DAY mode and NIGHT mode operates as COLOR mode

* Mirror

- Mirror : you can flip the image vertically on the screen.
- Rotate : you can flip the imate horizontally on the screen.
- V-Flip : you can flip the image vertically and horizontally both.

- * Digital Zoom : You can use a digital zoom of x1.0 ~ X32
- * Gamma : Standard value is 0.45. You can adjust the value between 0.05 ~ 1.00
- * NEG IMAGE : you can flip the color on screen.

- ▶ **RS 485** : This function sets up the camera communication status when controlling the camera through an external device.

- When the SPECIAL menu is displayed, press the Up and Down buttons so that the arrow indicates 'RS 485'.

- Press SET button for sub menu.

- Set up the mode using 4 direction buttons.

- * CAM ID : Determines the camera's ID number (0~255)
- * ID DISPLAY : Display camera title on the screen.
- * BAUDRATE : You can select 2400/4800/9600/19200/38400/57600bps.

- ▶ **MOTION** : If you connect an alarm device to this camera, you can monitor activity because a signal is generated by the camera whenever motion is detected. The motion detection signal is output through the MD OUT port.

- When the SPECIAL menu is displayed, press the Up and Down buttons so that arrow indicates MOTION.

- Press SET button for sub menu.

- Set up the mode using 4 direction buttons.

- * **AREA SELECT** : Determines which 4 vertices of each MD area is to be used

- * **AREA DIPLAY** : Determines whetehr to use the MD area selected in Sensitivity.

- * **LEFT / RIGHT** : Determines the coordinate of the vertical axis for Area.
- * **WIDTH** : Adjust the selected vertical area.
- * **TOP / BOTTOM** : Determines the coordinate of the horizontal axis for area.
- * **HEIGHT** : Adjust the selected horizontal area.
- * **Sensitivity** : You can select up to 4 areas. When sensitivity number is high, motion detection sensitivity is increased to recognize even small movement

- * **Motion View** : If you make it ON by using LEFT and RIGHT buttons, selected value of color is filled on the screen

Notes

- ⊙ MD areas show only MOTION menu. Therefore, MD areas don't display on the monitor screen.
- ⊙ BUT if you select the motion view function ON, MD areas are displayed on the monitor

- ▶ **PRIVACY** : Hide an area you want to hide on the screen.

- When the SPECIAL menu screen is displayed, press the Up and Down buttons so that the

3 Digital Noise Reduction(3DNR)

● This function reduces the background noise in a low luminance environment

- When the SETUP menu screen is displayed, select 3DNR by using the Up and Down buttons so that the arrow indicates 3DNR.
 - ▶ **OFF** : Deactivates 3DNR. Noise is not reduced.
 - ▶ **ON** : Activates 3DN so that noise is reduced.
- Set the 3DNR mode to 'ON' and press the SET button. Then you can adjust the Noise reduction level.

Notes

- ⊙ You cannot set the 3DNR to 'ON' or 'OFF' when the AGC mode of the EXPOSURE menu is 'OFF'.
- ⊙ When adjusting the noise reduction level of the 3DNR mode, the higher the level set, the more the noise level will be reduced but that after image may also occur.

SPECIAL

- When the SETUP menu screen is displayed, select 'SPECIAL' by using Up and Down buttons so that the arrow indicates 'SPECIAL'

- Select a desired mode using the Up and Down buttons

- ▶ **CAM TITLE** : If you enter a title, the title will be appear on the monitor.

- ① If the SPECIAL menu screen is displayed, use the Up and Down buttons so that the arrow indicates 'CAM TITLE'
- ② Set it to 'On' by using Left and Right buttons.

Notes

- ⊙ When the CAM TITLE menu is 'OFF', no title will be displayed on the monitor screen even if you enter one.

- ③ Press the SET button.
- ④ Use the 4 direction buttons to move to a desired letter and select the letter by pressing the SET button. Repeat this to enter multiple letters. You can enter up to 15 letters.

Notes

- ⊙ If you entered wrong letter..... If you move the cursor to CLR and press the SET button, all the letters are deleted. To edit a leeter, change the cursor to the bottom left arrow and press the SET button. Move the cursor over the letter to be edited, move the cursor to the letter to be inserted and then press SET button.

- ⑤ Enter a title, move the cursor to 'POS' and press the SET button. The entered title appears on the screen. Select the position to display the title on the screen by using the 4 direction buttons and press the SET button. When the position is determined, select 'END' and press the SET button to return to the SPECIAL menu.

- ▶ **D-EFFECT**

- ① When the SPECIAL menu screen is displayed, press the Up and down buttons so that the arrow indicates "D-EFFECT".

- ② Press the SET button for Sub menu.

- * **Freeze** : You can stop the image or reactivate it.

arrow indicates 'PRIVACY'.

- Press SET button for Sub Menu.

- Set up the mode by using 4 direction buttons.

- * **AREA SELECT** : You can select up to 8 privacy areas.

- * **AREA DISPLAY** : Determines whether to use the area selected in the AREA SELECT.

- * **LEFT / RIGHT** : Determines the coordinate of the vertical axis for Area.

- * **WIDTH** : adjust the selected vertical area.

- * **TOP / BOTTOM** : Determines the coordinate of the horizontal axis for area.

- * **HEIGHT** : adjust the selected horizontal area.

- * **COLOR** : Determine area color. You can select 0 ~ 15.

- ▶ **SYNC** : In areas where the supply is at 60Hz, you can synchronize the output phase of multiple cameras using the power synchronization function (Line-Lock) without using a synchronization signal generator

- **INT** : Internal SYNC type
- **L/L[Line-Lock]** : Power SYNC type

Notes

- ⊙ When using AC power at 60Hz frequency, you can use the L/L type SYNC
- ⊙ When the power is DC 12V, the SYNC menu is fixed to the INT mode.

- ▶ **Language** : You can select the menu language according to your requirement.

- Supplied Language : English, Chinese, Japanese

ADJUST

- When the SETUP menu screen is displayed, select ADJUST by using Up and Down buttons so that arrow indicates ADJUST.

- ▶ **Sharpness** : As you increase this value, the picture outline becomes stronger and clearer. Adjust this value appropriately depending on the sharpness of the picture.

- ▶ **BLUE** : You can adjust the color on the monitor in BLUE mode by controlling between 1 and 100

- ▶ **RED** : You can adjust the color on the monitor in RED mode by controlling between 1 and 100

RESET

- When the SETUP menu screen is displayed, select RESET by using Up and Down buttons so that arrow indicates RESET.

- Select a mode by using Up and Down buttons.

- ▶ **FACTORY** : Resets the camera settings to the factory defaults.

- Communication status and language is not initialized

EXIT

Press the SET button in the Exit menu to save the current settings and exit the Main SETUP menu.

