



NTSC Models
YCX-05 Series
ZC-D5000XA Series
ZC-D7000XA Series

PAL Models
ZC-YX/NX270 Series
ZC-D5000PXA Series
ZC-D7000PX Series

OSD OPERATION MANUAL



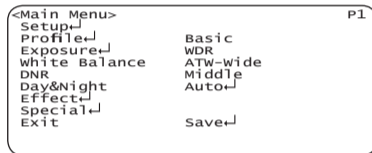
1. Camera OSD Control

Menu Operation Switch (MOS)
 To adjust settings in the OSD menu, press and hold down the Menu Operation Switch (MOS). The OSD menu appears, and here you can adjust various settings using this switch.
 • Pressing the switch in the UP/DOWN/LEFT/RIGHT direction moves the cursor and allows you to select an item.
 • Press the MOS to confirm the item you have selected.



2. OSD Menu Structure and Functions

Main Menu



Setup

Set the camera from these setting options after installation. This menu screen contains the setting options needed when installing. To set the camera mode or exposure based on your environment, go to the Profile and Exposure menus. To set the camera image quality and other functions, go to the Effect and Special menus.

Profile

Four preset profiles can be selected for operating the camera. You can also change to one of two custom profiles. For the changing method, you can select to change simultaneously with the AUTO switching for Day&Night or to change based on an external terminal trigger.
 When changing the scene of the installation environment, control of the external terminal remotely (Open/Short) enables easy and dynamic changing of the camera mode for even higher quality monitoring.

Exposure

Camera exposure-related adjustments are made in this menu. AE Mode can be selected from six settings, and any setting changes can be saved.

White Balance

Sets the white balance.
 ATW: Automatically adjusts the white balance. (Color temperature range: Approx. 2500K to 10000K)
 ATW-Wide: Automatically adjusts to a wider color temp. range. (Factory setting)
 (Low color temperature range: 1800K and lower, high color temperature range: 20000K and more)
 AWB-: Push: Automatically adjusts the white balance and then saves the setting. Take a picture of a white sheet in a bright environment, and then press the MOS. (The adjusted data is saved even if the power is turned off.)
 Running: This is displayed during adjustment of the white balance and returns to Push display after adjustment is completed.

Manual

Enables manual adjustment of the white balance.
 When "AWB" is selected, while the OSD screen is not shown, holding the MOS in the DOWN direction displays the message "AWB Running..." to adjust the white balance.

DNR

This is the digital noise reduction setting.
 Low, Middle, High, Extreme. (Factory setting: Middle)
 Low applies the weakest effect.

Day&Night

Sets changing between Color and Black & White modes.
 Auto-: Automatically changes between Color mode and Black & White mode based on the screen brightness. (Factory setting)
 Color: Fixed at Color mode.
 B/W-: Fixed at Black & White mode.
 Auto+Terminal-: During operation in AUTO mode, this is set when fixing at black & white by controlling a black & white fixed terminal.

If the profile is changed whenever Day&Night is changed, Day&Night mode is automatically set to Auto.
 If the profile is changed by Mode-SEL Terminal, the Auto+Terminal setting is not available in Day&Night mode.

Effect

Makes camera image quality related settings.

Special

Motion Detection, Stabilizer, D-Zoom, Privacy Mask, and other settings.

Exit

Sets whether modified settings are saved when exiting the OSD setting screen.
 Save-: Saves the settings
 Not Save-: Does not save the settings

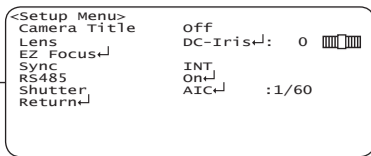
Except for the menus below, if an OSD operation is not performed for about two minutes, the current settings are automatically saved, and the menu is exited.
 Menu screens that do not exit automatically: EZ Focus Adjustment, Video Iris Lens Adjustment, Motion Detection, Privacy Mask, and Test Pattern screens.

If the camera power is turned off before properly exiting the OSD screen, the settings may not be saved correctly.
 The "L" symbol indicates that pressing the MOS moves to another screen and setting.

Camera startup screen
 Because the camera initialization settings are made immediately after camera startup, the message "Initializing..." is displayed for about 5 seconds until the operation switches are enabled.

Camera save screen
 When saving the settings, the camera displays the message "Saving..." for about 2 seconds and then the MOS can be operated.

1 Setup Menu



Camera Title

Creates a title indicating the installation location or others and displays it on the screen.
 Off: Indicates that the title display is OFF. (Factory setting)
 On-: A title can be set up to 17 characters when it is displayed.

Lens

Selects the lens and makes the lens settings. (For CS models, the lens selection changes in coordination with the IRIS selector switch on the rear panel.)
 DC-Iris-: This is the brightness setting with a DC iris lens is selected. -20 to 0 to +20. (Factory setting: 0)

Video-: When VIDEO iris is selected, the LEVEL VR of a lens must be set to a suitable position. Make the setting based on the information shown on the screen. (For CS models)
 Manual: Select when using a manual lens.

EZ Focus

Uses the EZ Focus function for easily adjusting to the optimum focus.

Sync

Sets the synchronization method.
 INT: Always operates using internal synchronization. (Factory setting)
 LL-: Operates using power synchronization (LL) when using AC power, and operates using internal synchronization (Internal) when using DC power.
 The vertical synchronization phase for the power synchronization can be adjusted.
 Adjustment range: 0 to 524 lines (NTSC). (Factory setting: 0)
 (Approx. 360°) 0 to 624 lines (PAL). (Factory setting: 0)

RS485

Sets the communication setting. (For models including a communication function)
 Off: Communication function is disabled.
 On-: Communication function is enabled. (Factory setting)

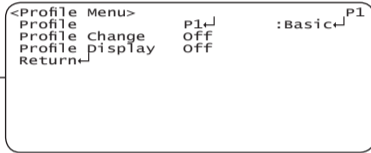
Shutter

Sets the electronic shutter.
 AES: Performs exposure control using the automatic electronic shutter.
 Flickerless: Fixed at 1/100s (NTSC) or 1/120s (PAL).
 Fix-: Enables setting of a fixed shutter speed.
 1/50 (Fixed during PAL or PAL WDR mode), 1/60 (Fixed during NTSC or NTSC WDR mode), 1/100 (NTSC), 1/120 (PAL), 1/150, 1/200, 1/250, 1/500, 1/1000, 1/2000, 1/2500, 1/3000, 1/3500, 1/4000, 1/4500, 1/5000, 1/10000, 1/25000, 1/50000, 1/100000
 AIC-: Performs exposure control using the electronic shutter and the lens iris. (Factory setting)
 1/50 (PAL), 1/60 (NTSC), 1/100 (NTSC), 1/120 (PAL), 1/150, 1/200, 1/250, 1/500, 1/1000, 1/1500, 1/2000, 1/2500, 1/3000, 1/3500, 1/4000, 1/4500, 1/5000, 1/10000, 1/25000, 1/50000, 1/100000 (Factory setting: 1/50 (PAL), 1/60 (NTSC) (WDR model), 1/1000 (EDR model))

Return

Returns to the upper menu screen. (The same explanations with above are omitted.)

2 Profile Menu



Profile

P1- / P2-: The profile selection settings are used for changing between profiles, and they include Profile1 (P1) and Profile2 (P2).
 Use P1 if the profile does not need to be changed.

Profiles can be set to P1, P2, or one of the four preset modes below. The profiles (initial settings) for each mode are shown below.
 Basic-: Standard mode. (Factory setting)
 ENHNCD-: Color high-sensitivity mode.
 Casino-: Casino mode.
 Sodium-: Sodium vapor lamp mode.
 P1-: When set to Profile2, this copies the Profile1 settings.
 P2-: When set to Profile1, this copies the Profile2 settings.
 If Basic, ENHNCD, Casino, or Sodium mode is selected, the camera setting data is automatically set to the preset data. However, the camera setting data can be changed manually and saved.

Setting Procedure

- 1) Select the profile (P1) and press the MOS so that the cursor moves to the mode selection position. Select the optimum mode for the installation environment, and press the MOS.
- 2) Select the profile (P1) and press the MOS so that the cursor moves to the mode selection position. Select the optimum mode for the installation environment, and press the MOS.
- 3) If the camera image quality or other settings need to be changed, set the Exposure and other options.
- 4) When changing the profile, select the changing method in the "Profile Change" option in this menu.
- 5) During changing of the profile, indicate the currently-selected mode as P1 or P2. "P2" can be shown in the OSD mode display when Profile2 is selected. "P1" is not displayed. The display of this option can be set On/OFF in the Profile Display menu.

Profile Change

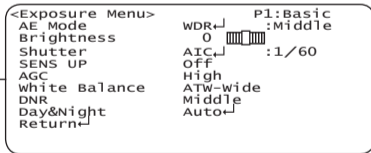
Sets changing of the profile.
 When changing between Profile1 and Profile2 in Day&Night, be sure to always set Profile1 to Color and Profile2 to B/W.
 Off: Disables changing of the profiles. (Factory setting)
 Day&Night: Enables changing of the profiles by Day&Night.
 MODE-SEL Terminal: Enables changing of the profiles by external terminal.

Profile Display

Sets display of profile mode.
 Off (Not displayed), On- (Displayed). (Factory setting: Off)

Profile	Default Values of Profile Setting			
	Basic	ENHNCD	Casino	Sodium
AE Mode	WDR model	WDR	WDR	WDR
	EDR model	EDR	EDR	EDR
SENS UP	Off	Off	Off	Off
AGC	High	Middle	High	High
White Balance	ATW-Wide	ATW-Wide	AWB	ATW-Wide
DNR	Middle	Extreme	Middle	Middle
Day&Night	Auto	Color	Color	Auto
Special Setting in Sodium mode	Off	Off	Off	On

3 Exposure Menu



AE Mode

Sets the camera exposure mode.
 Normal: Performs exposure control using the lens iris and electronic shutter
 WDR- (WDR model): This is used, for instance, when shooting subjects having a large difference between bright and dark sections, such as scenes mixing indoors and outdoors. This is a double-shutter type wide dynamic range mode. (Factory setting)
 Set the brightness level of the weighted metering point during exposure control. High is the high-brightness section.
 Low, Middle, High, Extreme. (Factory setting: Middle)
 EDR- (EDR model): Extended dynamic range mode for using digital processing to enhance the dynamic range. (Factory setting)

Sets the compensation amount for video that is darkened due to backlighting.
 Low, Middle, High, Extreme. (Factory setting: Middle)
 BLC-: Sets the backlight compensation mode.
 HLC-: Sets the highlight compensation mode.
 Defog: Automatically performs defog compensation processing.
 The exposure modes cannot be used simultaneously.
 These modes cannot be changed automatically based on the environmental conditions.

Brightness

Sets the brightness.
 -20 to 0 to +20. (Factory setting: 0)
 It is shared with the brightness setting of the lens iris level in the Setup menu.

Shutter

See the Setup menu description.

SENS UP

Applies the sense-up accumulation time to multiple fields for brightening the screen.
 Off, x2, x4, x6, x8, x16, x32, x64, x128, x256, x512. (Factory setting: Off)
 The sense-up time is adjusted automatically based on the subject brightness.

AGC

Automatic gain control.
 Off (0 dB), Low (12 dB), Middle (18 dB), High (26 dB), Extreme (42 dB). (Factory setting: High)

White Balance

See the Main menu description.

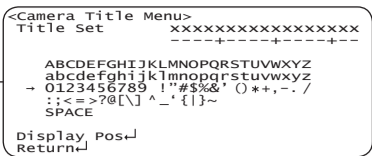
DNR

See the Main menu description.

Day&Night

The White Balance, DNR, and Day&Night settings in the Exposure menu are shared with the setting items in the Main menu. If the settings in the Main menu are changed, the settings in the Exposure menu are also automatically changed.

1-1 Camera Title Menu



Title Set

The title input area (maximum of 17 characters). Align the cursor with the character that you want to display, and press the switch to enter it. (Factory setting: All space)

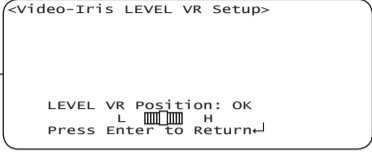
or

Displays the location where selection is allowed.

Display Pos

Sets the camera title display position.

1-3 Video-Iris LEVEL VR Setup (For CS Models)



LEVEL VR of the VIDEO iris lens is adjusted based on the information on the screen.

Operation Procedure

- 1) When the Video-Iris is selected from the OSD menu, the adjustment screen shown above is opened.
- 2) If the screen is too dark, turn the LEVEL dial (VR) clockwise.

<Screen display> Image: Too Dark
Turn LEVEL VR towards "H" direction (CW)

If the screen is too bright, turn the LEVEL dial (VR) counter-clockwise.

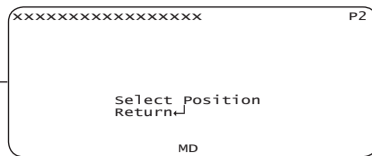
<Screen display> Image: Too Bright
Turn LEVEL VR towards "L" direction (CCW)

3) If the screen is at a suitable brightness, "OK" is displayed, and adjustment is completed.

<Screen display> LEVEL VR Position: OK
Press Enter to Return

Be sure to perform the adjustment until "OK" is displayed.
 Be sure to always set the ALC adjustment dial of the lens to the Average (Av) end.
 Adjust in bright environments with flickerless lighting.

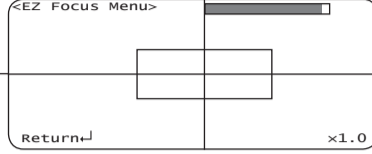
1-2 Camera Title Position Setting



Sets the camera title display position. In this screen, set so that the title display position does not overlap with the Profile (P2) and motion detection (MD) indicators.

No characters are preset for the camera title in the factory setting.

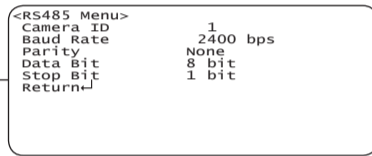
1-4 EZ Focus Menu



The EZ Focus Adjustment includes a focus assist function. This function enables display of a focus level bar, setting of the screen zoom magnification, and increasing of the image sharpness for easily adjusting to the optimum lens focus.

- Operation Procedure
- 1) While the OSD screen is not shown, holding the MOS in the UP direction opens the screen shown above. You can also open this screen going to the OSD Main menu and selecting Setup → EZ Focus menu.
 - 2) Moving the MOS to the right and left changes the zoom magnification for enlarging or reducing the subject size for easy adjustment and confirmation. Change the magnification if necessary.
 - 3) The focus lever at the top right of the screen indicates the focus setting. Adjust the lens focus so that the bar position is at the maximum length setting, or use the subject video to adjust to the optimum position.

1-5 RS485 Menu (For Models Including Communication Function)



Camera ID

Sets a number for identifying the camera.
 1 to 240. (Factory setting: 1)

Baud Rate

Sets the communication speed with external devices.
 1200 bps, 2400 bps, 4800 bps, 9600 bps, 19200 bps, 38400 bps. (Factory setting: 2400 bps)

Parity

Sets the parity.
 None, Odd, Even. (Factory setting: None)

Data Bit

The data length is fixed at 8 bits. The data length cannot be changed.

Stop Bit

Sets the stop bit.
 1 bit, 2 bit. (Factory setting: 1 bit)

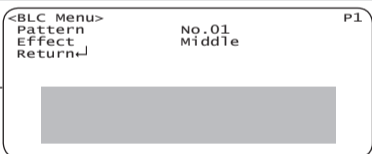
2-1 Profile Position Setting



Sets the profile display character "P2" position. The "P2" display position can be selected from one of six locations at the top and bottom of the screen.

Like the camera title, set so that the characters do not overlap with other content.

3-1 BLC Menu



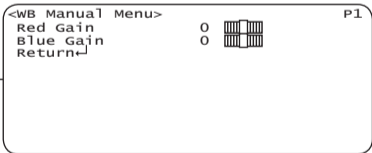
Pattern

From the 15 available frame types, the metering point photometry frame of the BLC function that is closest to the installation environment is selected. When the respective photometry frame is selected, it is displayed on the screen for easy confirmation. (Factory setting: No.01)

Effect

Sets the effect level.
 Low, Middle, High. (Factory setting: Middle)

3-3 WB Manual Menu



The R and B gain are adjusted in the manual white balance adjustment.

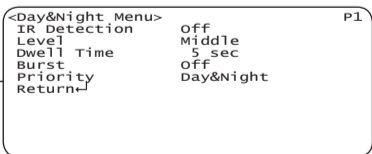
Red Gain

Adjusts the red hue.
 -50 to 0 to +50. (Factory setting: 0)

Blue Gain

Adjusts the blue hue.
 -50 to 0 to +50. (Factory setting: 0)

3-4 Day&Night Menu



IR Detection

This function prevents hunting (repeated switching between Color and Black & White modes) from occurring when using under infrared lighting. Set to On if using the Mechanical Day&Night camera under infrared lighting.
 Off, On. (Factory setting: Off)
 Mechanical Day&Night model

Level

Sets the brightness level where switching occurs between Color and B/W modes.
 Low, Middle, High. (Factory setting: Middle)

Dwell Time

Sets the determination time for switching between Color and Black & White modes.
 3 sec, 5 sec, 10 sec, 30 sec, 60 sec, 3 min, 5 min. (Factory setting: 5 sec)

Burst

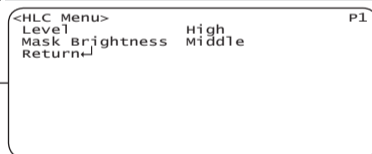
Sets whether there are burst signals when switching B/W (Night mode).
 Off: Burst disabled, On: Burst enabled. (Factory setting: Off)

Priority

If Day&Night and SENS UP are used together in operation, the mode that is activated first can be set.
 Day&Night: Set when priority is given to capturing motion under low-brightness conditions. (Factory setting)
 SENS UP: Set when priority is given to capturing color video under low-brightness conditions.

When the SENS UP magnification is raised, the screen becomes less sharp, whiter, and white spots may appear. This is not a malfunction.

3-2 HLC Menu



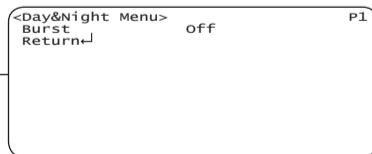
Level

Sets the detection level of high-brightness video.
 Low, Middle, High. (Factory setting: High)
 When Low is set, low level is used.

Mask Brightness

Replaces the brightness of the video where high brightness was detected based on the detection level setting for high-brightness video.
 Low, Middle, High. (Factory setting: Middle)

3-5 Day&Night Menu (B/W)



Burst

Sets whether there are burst signals when switching B/W (Night mode).
 Off: Burst disabled, On: Burst enabled. (Factory setting: Off)

