



# Manual

**Z8-D2M / Z8-VD2M / Z8-D2V / Z8-VD2V**



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# About This Document

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## Purpose

This document describes how to set and use OSD menu for coaxial HD cameras managed by DVR.





## Intended Audience


This document is intended for:

- Technical support engineers
- Maintenance engineers

## Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 <b>DANGER</b>	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
 <b>WARNING</b>	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 <b>CAUTION</b>	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
 <b>NOTICE</b>	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results. NOTICE is used to address practices not related to personal injury.

Symbol	Description
 <b>NOTE</b>	Calls attention to important information, best practices and tips. NOTE is used to address information not related to personal injury, equipment damage, and environment deterioration.

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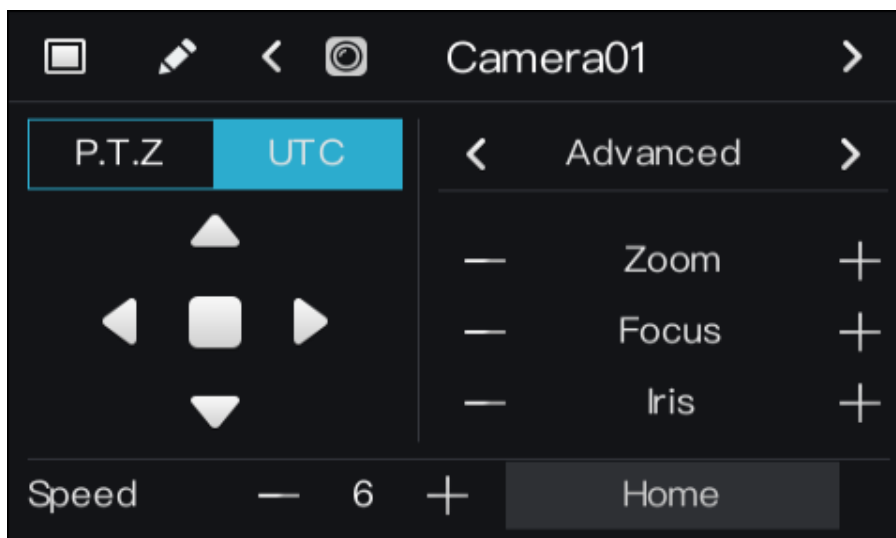
# 1 OSD Main Menu

## 1.1 Procedure

### 1.1.1 Camera Control over DVR UTC

**Step 1** Connect the coaxial HD camera to the coaxial HD disk recorder, use the DVR pan-tilt-zoom (PTZ) control module to invoke the PTZ operation interface, and select **UTC**. Figure 1-1 shows the UTC operation interface.

**Figure 1-1** UTC operation interface



The UTC operation interface provides four arrow buttons and one OK button.



: up



: down



: left



: right



: OK button

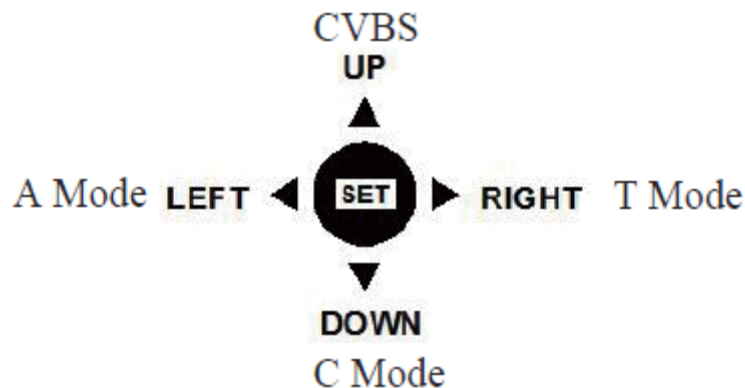
**Step 2** Click the **OK** button to open the OSD main menu or end setup.

----End

## 1.1.2 Camera Control Using Five Buttons

If your camera has four arrow buttons and one **SET** button, you can use the buttons to operate the OSD main menu. Figure 1-2 shows the five buttons.

**Figure 1-2** Five-button layout



**The buttons have the following functions:**

- **SET:** Press this button to open the OSD main menu or end setup.
- **UP/DOWN:** Press the two buttons to select the upper or lower menu.
- **LEFT/RIGHT:** Press the two buttons to select different modes.
- Press and hold the **LEFT** button for 5s to switch to AHD mode for output of the 1080P AHD signal.
- Press and hold the **RIGHT** button for 5s to switch to TVI mode for output of the 1080P TVI signal.
- Press and hold the **UP** button for 5s to switch to CVBS mode for output of the 960H analog signal.
- Press and hold the **DOWN** button for 5s to switch to CVI mode for output of the 1080P CVI signal.

----End

## 1.2 OSD Main Menu Interface

The OSD main menu interface includes **LENS**, **EXPOSURE**, **BACKLIGHT**, **WHITE BAL**, **DAY&NIGHT**, **NR**, **SPECIAL**, and **ADJUST**, as shown in Figure 1-3.

Figure 1-3 OSD main menu interface



---End

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# 2 OSD Setting

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## 2.1 LENS

You can set **LENS** to **MANUAL** or **DC**.

### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **LENS**.
  - Step 2** Press the **LEFT** or **RIGHT** button to set **LENS** to **MANUAL** or **DC**. The default value is **MANUAL**.
- End

## 2.2 EXPOSURE

Exposure is intended to adjust image brightness by setting parameters such as aperture, shutter, and gain. The **EXPOSURE** interface includes **SHUTTER**, **AGC**, **SENS-UP**, **BRIGHTNESS**, **D-DWR**, and **DEFOG**.

### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **EXPOSURE**.
- Step 2** Press the **OK** button to open the **EXPOSURE** interface, as shown in Figure 2-1.



Figure 2-1 EXPOSURE interface



Step 3 Set exposure parameters.

Table 2-1 lists the exposure parameters.

Table 2-1 Exposure parameters

Parameter	Meaning	Setup
SHUTTER	This parameter is used to adjust shutter manually for the desired image brightness. The greater the shutter, the brighter the image, given that aperture and gain remain unchanged.	[Setting method] Press the <b>LEFT</b> or <b>RIGHT</b> button. [Default value] <b>AUTO</b>
AGC	This parameter is used to adjust image brightness and noise (two factors that affect image quality). The greater the gain, the brighter the image and the higher the noise level. Value range: 0–15	[Setting method] Press the <b>LEFT</b> or <b>RIGHT</b> button. [Default value] <b>15</b>
SENS-UP	At low illuminance, the sensor triggers frame reduction and the exposure time is prolonged to increase image brightness and reduce the noise level.	[Setting method] Press the <b>LEFT</b> or <b>RIGHT</b> button. [Default value] <b>OFF</b>
BRIGHTNESS	This parameter is used to adjust image brightness. Value range: 0–100	[Setting method] Press the <b>LEFT</b> or <b>RIGHT</b> button. [Default value] <b>40</b>

Parameter	Meaning	Setup
D-WDR	Overexposure or missing dark details may occur when areas of low brightness and high brightness coexist in the same image. You can set <b>D-WDR</b> to <b>ON</b> to enhance dark areas while tuning down bright areas for improved effect.	[Setting method] Press the <b>LEFT</b> or <b>RIGHT</b> button. [Default value] <b>AUTO</b>
DEFOG	You can set this parameter to <b>ON</b> to obtain images with enhanced transparency in foggy environments.	[Setting method] Press the <b>LEFT</b> or <b>RIGHT</b> button. [Default value] <b>OFF</b>

**Step 4** Press the **UP** or **DOWN** button to select **RETURN**.

**Step 5** Press the **LEFT** or **RIGHT** button to select **RETURN**. The OSD main menu interface is displayed. Select **SAVE&END** to save the settings and exit the OSD main menu interface.

----End

## 2.3 BACKLIGHT

You can set **BACKLIGHT** to **HSBLC**, **BLC**, or **OFF**.

### Procedure

**Step 1** Press the **UP** or **DOWN** button to select **BACKLIGHT**.

**Step 2** Press the **LEFT** or **RIGHT** button to select a backlight mode. The options are **HSBLC**, **BLC**, and **OFF**. The default value is **OFF**.

----End

### 2.3.1 HSBLC

You can select **HSBLC** to enable highlight compensation to make the target look clearer when the backlight is too strong.

**Step 1** Set **BACKLIGHT** to **HSBLC** and press the **OK** button to open the **HSBLC** interface, as shown in Figure 2-2.

Figure 2-2 HSBLC interface

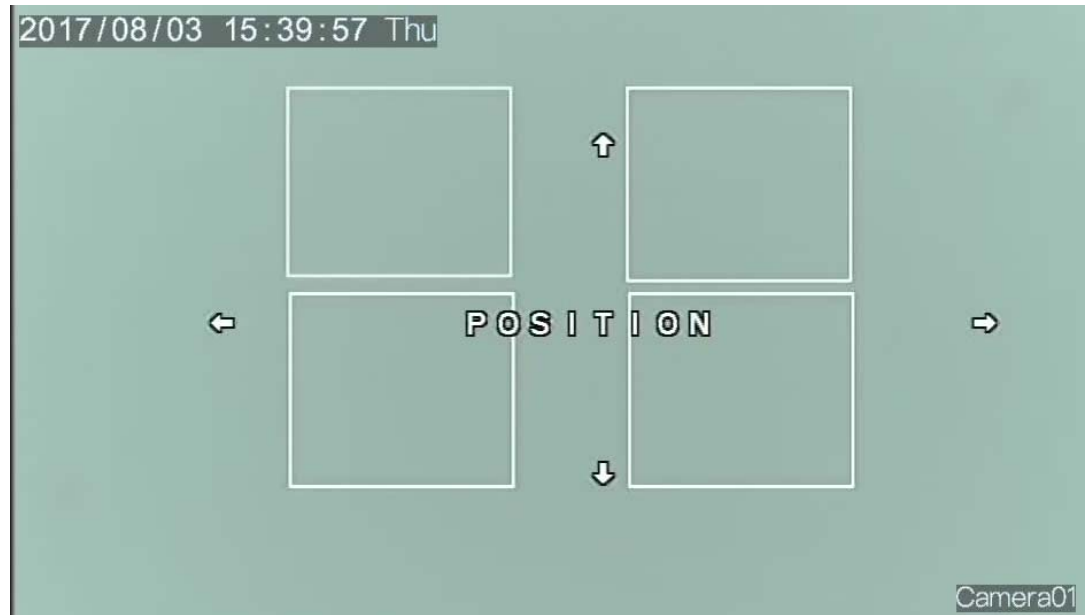


----End

## Procedure

- Step 1** Press the **UP** or **DOWN** button to select **SELECT**, and press the **LEFT** or **RIGHT** button to select the desired area.
- Step 2** Press the **UP** or **DOWN** button to select **DISPLAY**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.

Set **DISPLAY** to **ON** and press the **OK** button to open the area setup interface, as shown in Figure 2-3.

**Figure 2-3** Area setup interface

1. When **POSITION** is displayed, press the **UP**, **DOWN**, **LEFT**, and **RIGHT** buttons to set the position of the area. Then press the **OK** button to complete the setting.
2. Press the **OK** button. When **SIZE** is displayed, press the **UP**, **DOWN**, **LEFT**, and **RIGHT** buttons to set the size of the area. Then press the **OK** button to complete the setting.
3. Press the **OK** button again. When **AGAIN** and **REC** are displayed, press the **LEFT** or **RIGHT** button to select **AGAIN** to perform setup again. Then press **REC** to complete the setting.

**Step 3** .Press the **UP** or **DOWN** button to select **BLACK MASK**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.

**Step 4** Press the **UP** or **DOWN** button to select **LEVEL**, and press the **LEFT** or **RIGHT** button to set this parameter.

**Step 5** Press the **UP** or **DOWN** button to select **MODE**, and press the **LEFT** or **RIGHT** button to set this parameter.

Set **MODE** to **NIGHT** and press the **OK** button to open the **NIGHT MODE** interface, as shown in Figure 2-4.

Figure 2-4 NIGHT MODE interface



1. Press the **UP** or **DOWN** button to select **AGC LEVEL**, and press the **LEFT** or **RIGHT** button to set this parameter.
2. Press the **UP** or **DOWN** button to select **RETURN** after setup, and press the **OK** button to return to the **HSBLC** interface.

**Step 6** After all parameters are set, press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the OSD main menu interface.

----End

## 2.3.2 BLC

You can select **BLC** to enable backlight compensation to make the target look clearer when the background is too dark.

Set **BACKLIGHT** to **BLC** and press the **OK** button to open the **BLC** interface, as shown in Figure 2-5.

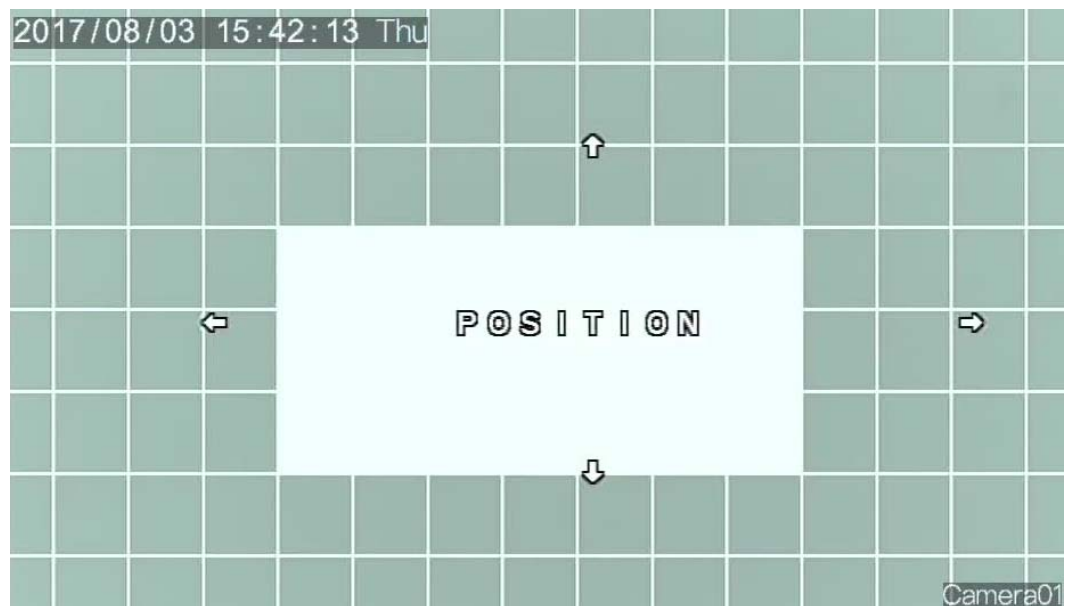
**Figure 2-5 BLC interface**



**Procedure**

- Step 1** Press the **UP** or **DOWN** button to select **LEVEL**, and press the **LEFT** or **RIGHT** button to set this parameter. The options are **HIGH**, **MIDDLE**, and **LOW**. The default value is **MIDDLE**.
- Step 2** Press the **UP** or **DOWN** button to select **AREA**, and press the **OK** button to open the area setup interface, as shown in Figure 2-6.

**Figure 2-6 Area setup interface**



BLC area setup is the same as HSBLC area setup. For details, see "Step 2 of section 2.3.1 HSBLC."

----End

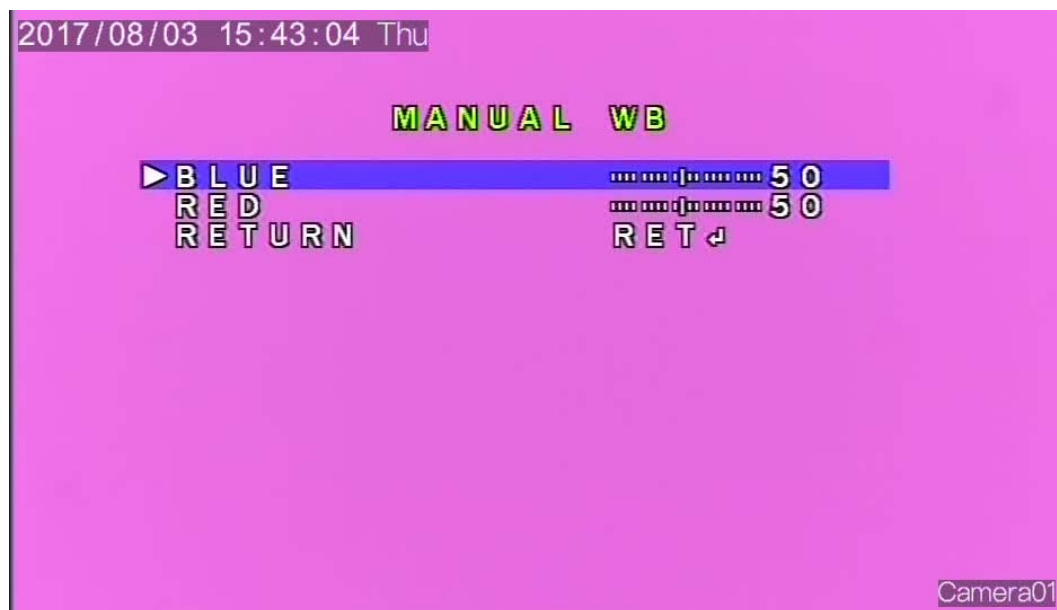
## 2.4 WHITE BAL

White balance is intended to reproduce the actual colors of the observed scene when the illuminance and color temperature of the target object are changed. You can set **WHITEBAL** to **ATW**, **AWG**, **MANUAL WB**, **OUTDOOR**, **INDOOR**, or **AWC-SET**.

### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **WHITE BAL**.
- Step 2** Press the **LEFT** or **RIGHT** button to set this parameter. The options are **ATW**, **AWG**, **MANUAL WB**, **OUTDOOR**, **INDOOR**, and **AWC-SET**.
- Step 3** Set **WHITE BAL** to **MANUAL WB** and press the **OK** button to open the **MANUAL WB** interface, where you can set white balance parameters, as shown in Figure 2-7.

Figure 2-7 MANUAL WB interface



1. Press the **UP** or **DOWN** button to select **BLUE**, and press the **LEFT** or **RIGHT** button to set this parameter.
2. Press the **UP** or **DOWN** button to select **RED**, and press the **LEFT** or **RIGHT** button to set this parameter.
3. Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the OSD main menu interface.

## 2.5 Day&Night

You can set **Day &Night** to **COLOR,D&N EXT, B/W, or D&N AUTO**.

### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **Day &Night**.
  - Step 2** Press the **LEFT** or **RIGHT** button to set this parameter.
- End

### 2.5.1 D&N EXT

Set **Day &Night** to **D&N EXT** and press the **OK** button to open the **D&N EXT** interface, as shown in Figure 2-8.

Figure 2-8 D&N EXT interface



### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **D->N (DELAY)**, and press the **LEFT** or **RIGHT** button to set this parameter.
  - Step 2** Press the **UP** or **DOWN** button to select **N->D (DELAY)**, and press the **LEFT** or **RIGHT** button to set this parameter.
  - Step 3** Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the OSD main menu interface.
- End



## 2.5.2 B/W

Set **Day &Night** to **B/W** and press the **OK** button to open the **B/W** interface, as shown in Figure 2-9.

Figure 2-9 B/W interface



**NOTE**

**WHITE BAL** is unavailable when **Day &Night** is set to **B/W**.

### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **BURST**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.
- Step 2** Press the **UP** or **DOWN** button to select **IR SMART**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.

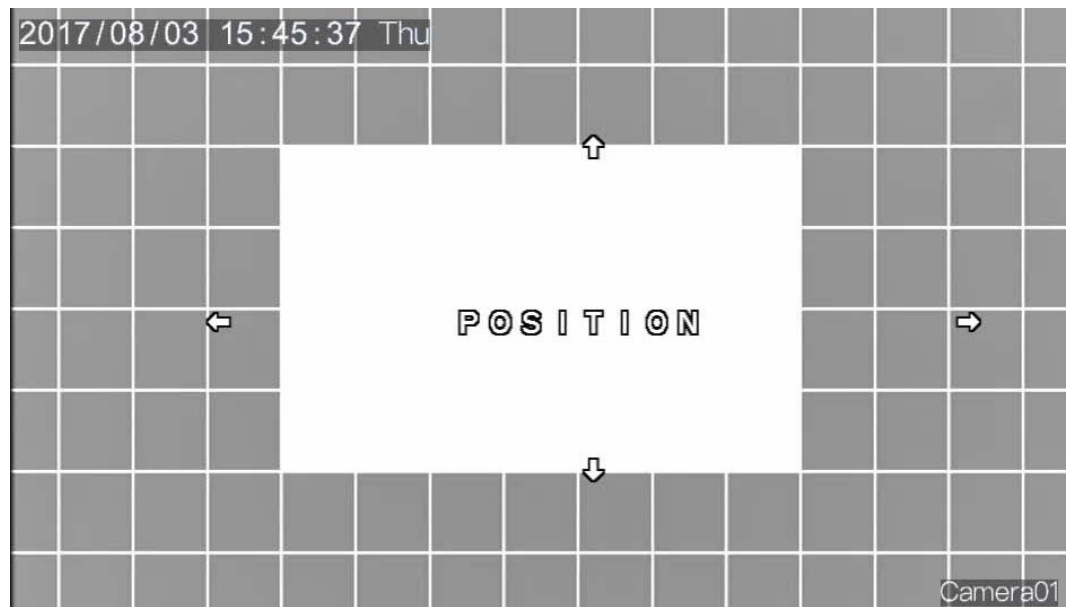
Set **IR SMART** to **ON** and press the **OK** button to open the **IR SMART** interface, as shown in Figure 2-10.

**Figure 2-10** IR SMART interface



1. Press the **UP** or **DOWN** button to select **LEVEL**, and press the **LEFT** or **RIGHT** button to set this parameter.
2. Press the **UP** or **DOWN** button to select **AREA**, and press the **OK** button to open the area setup interface, as shown in Figure 2-11.

**Figure 2-11** Area setup interface



**IR SMART** area setup is the same as **HSBLC** area setup. For details, see "Step 2 of section 2.3.1 "HSBLC."

3. Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the B/W interface.

**Step 3** Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the OSD main menu interface.

----End

## 2.5.3 D&N AUTO

Set **Day &Night** to **D&N AUTO** and press the **OK** button to open the **D&N AUTO** interface, as shown in Figure 2-12.

**Figure 2-12 D&N AUTO interface**



### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **D->N (AGC)**, and press the **LEFT** or **RIGHT** button to set this parameter.
- Step 2** Press the **UP** or **DOWN** button to select **D->N (DELAY)**, and press the **LEFT** or **RIGHT** button to set this parameter.
- Step 3** Press the **UP** or **DOWN** button to select **N->D (AGC)**, and press the **LEFT** or **RIGHT** button to set this parameter.
- Step 4** Press the **UP** or **DOWN** button to select **N->D (DELAY)**, and press the **LEFT** or **RIGHT** button to set this parameter.
- Step 5** Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the OSD main menu interface.

----End

## 2.6 NR

You can set the **2DNR** parameter to reduce the noise level of an image.

Press the **UP** or **DOWN** button to select **NR**, and press the **OK** button to open the **NR** interface, as shown in Figure 2-13.

**Figure 2-13 NR interface**



### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **2DNR**, and press the **LEFT** or **RIGHT** button to set this parameter.
- Step 2** Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the OSD main menu interface.

----End

## 2.7 SPECIAL

Press the **UP** or **DOWN** button to select **SPECIAL**, and press the **OK** button to open the **SPECIAL** interface, as shown in Figure 2-14.

Figure 2-14 SPECIAL interface



### 2.7.1 CAM TITLE

Press the **UP** or **DOWN** button to select **CAM TITLE**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.

When **CAM TITLE** is set to **ON**, you can set the camera title. Press the **OK** button to open the **CAM TITLE** interface.

Figure 2-15 CAM TITLE interface



CAM TITLE interface e description:

**←**: Press this button to move the cursor to the previous character. Press the **UP**, **DOWN**, **LEFT**, and **RIGHT** buttons to select **←**, and press the **OK** button to move the cursor backward by one character. If you press the **OK** button again, the cursor continues to move backward by one character. Move the cursor to the character to be modified, select the correct character, and press the **OK** button. Then the original character is replaced by the selected character.

**→**: Press this button to move the cursor to the next character. Press the **UP**, **DOWN**, **LEFT**, and **RIGHT** buttons to select **→**, and press the **OK** button to move the cursor forward by one character. If you press the **OK** button again, the cursor continues to move forward by one character. Move the cursor to the character to be modified, select the correct character, and press the **OK** button. Then the original character is replaced by the selected character.

**CLR**: Press the **UP**, **DOWN**, **LEFT**, and **RIGHT** buttons to select **CLR** to clear the camera title.

**POS**: Press the **UP**, **DOWN**, **LEFT**, and **RIGHT** buttons to select **POS** to complete the setting or modification of the camera title.

**END**: Press the **UP**, **DOWN**, **LEFT**, and **RIGHT** buttons to select **END** to return to the OSD main menu interface.

## Procedure

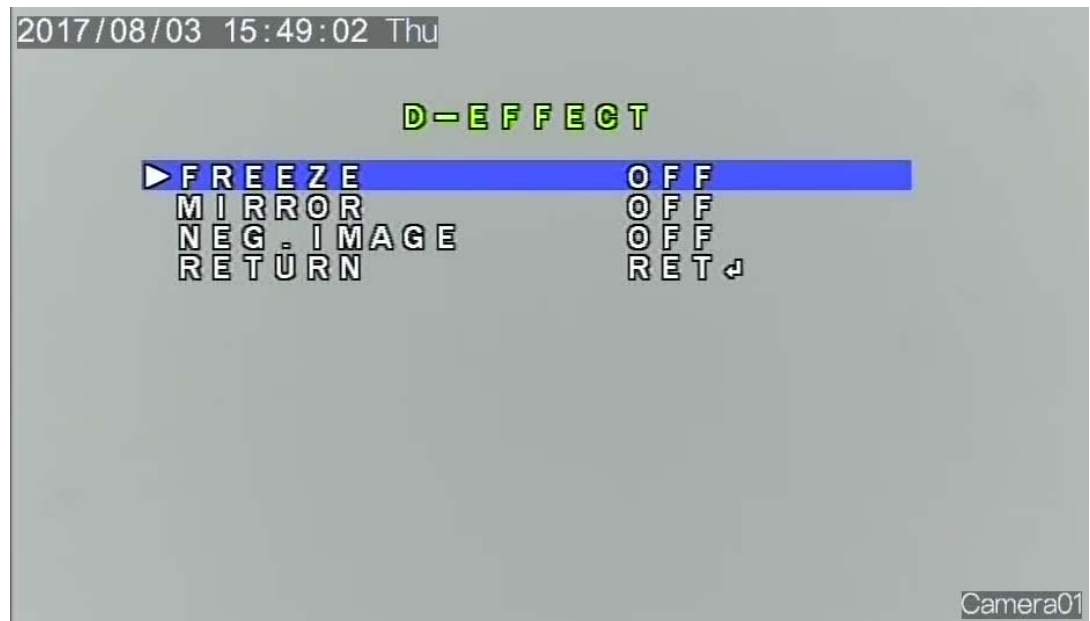
- Step 1** Press the **UP**, **DOWN**, **LEFT**, and **RIGHT** buttons to select numbers, letters, or symbols.
- Step 2** Select a character and press the **OK** button to confirm the selection.
- Step 3** Repeat Steps 1 and 2 to set the camera title.
- Step 4** Press the **UP**, **DOWN**, **LEFT**, and **RIGHT** buttons to select **POS** to complete the camera title setting. Open the real-time video interface, which displays the camera title.

----End

## 2.7.2 D-EFFECT

Press the **UP** or **DOWN** button to select **D-EFFECT**, and press the **OK** button to open the **D-EFFECT** interface, as shown in Figure 2-16.

Figure 2-16 D-EFFECT interface



## Procedure

- Step 1** Press the **UP** or **DOWN** button to select **FREEZE**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**. The default value is **OFF**.
- Step 2** Press the **UP** or **DOWN** button to select **MIRROR**, and press the **LEFT** or **RIGHT** button to set this parameter. The options are **OFF**, **ROTATE**, **V-FLIP**, and **MIRROR**. The default value is **OFF**.
- Step 3** Press the **UP** or **DOWN** button to select **NEG.IMAGE**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**. The default value is **OFF**.
- Step 4** Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the **SPECIAL** interface.

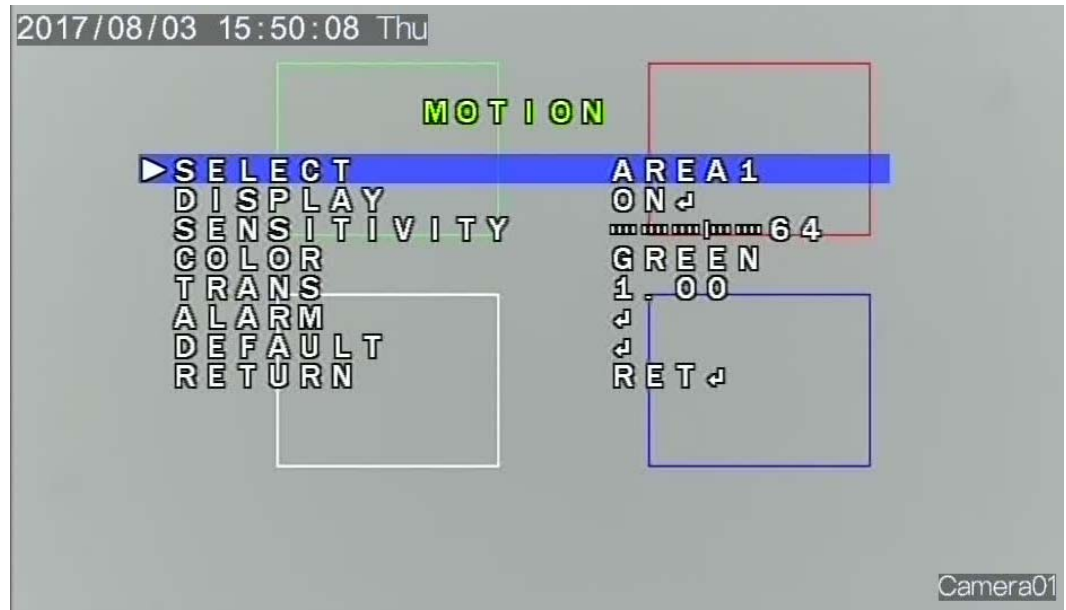
----End

## 2.7.3 MOTION

Press the **UP** or **DOWN** button to select **MOTION**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.

Set **MOTION** to **ON** and press the **OK** button to open the **MOTION** interface, as shown in Figure 2-17.

**Figure 2-17 MOTION interface**

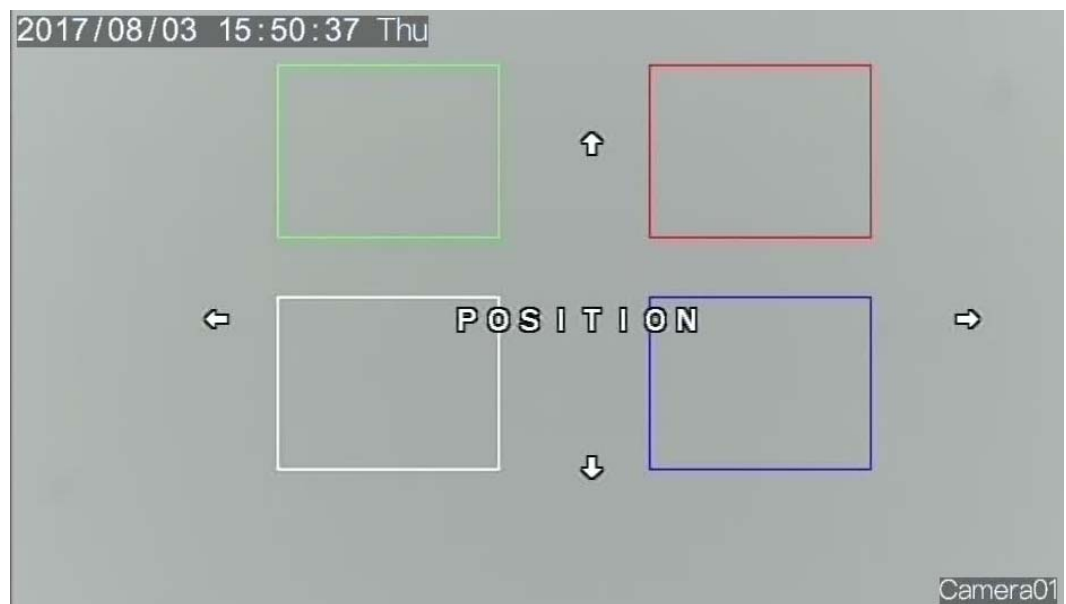


**Procedure**

- Step 1** Press the **UP** or **DOWN** button to select **SELECT**, and press the **LEFT** or **RIGHT** button to select the desired area.
- Step 2** Press the **UP** or **DOWN** button to select **DISPLAY**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.

Set **DISPLAY** to **ON** and press the **OK** button to open the area setup interface, as shown in Figure 2-18.

**Figure 2-18 Area setup interface**

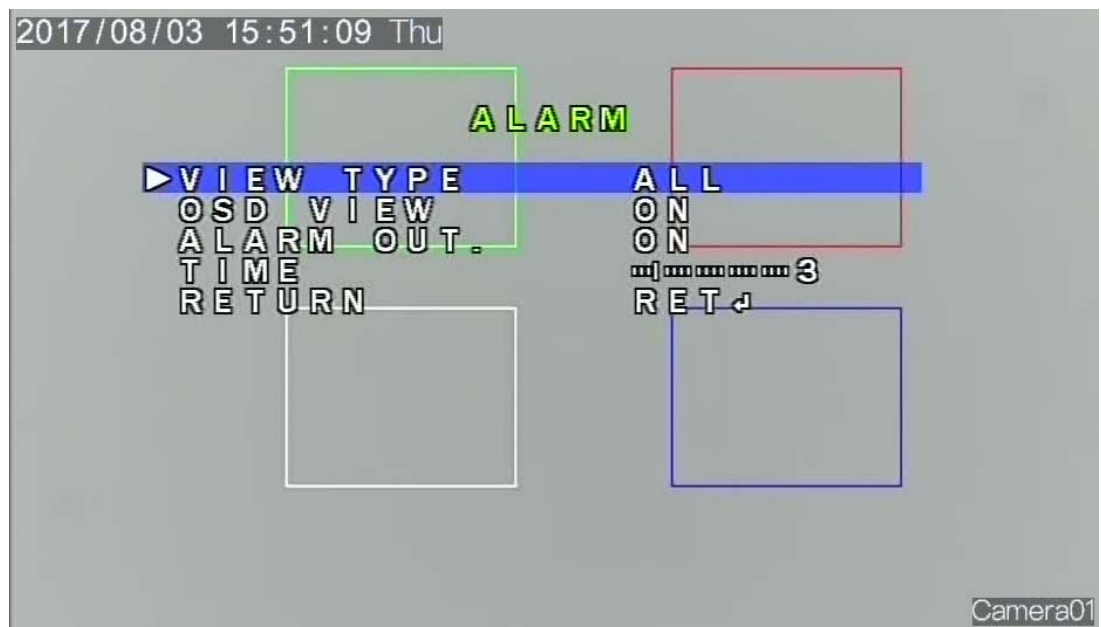




Motion area setup is the same as HSBLC area setup. For details, see "Step 2 of section 2.3.1 "HSBLC."

- Step 3** Press the **UP** or **DOWN** button to select **SENSITIVITY**, and press the **LEFT** or **RIGHT** button to set this parameter. The value range is 0–100, and the default value is 64.
- Step 4** Press the **UP** or **DOWN** button to select **COLOR**, and press the **LEFT** or **RIGHT** button to set this parameter. The options are **RED**, **GREEN**, **BLUE**, and **WHITE**. The default value is **GREEN**.
- Step 5** Press the **UP** or **DOWN** button to select **TRANS**, and press the **LEFT** or **RIGHT** button to set this parameter. The options are 0.75, 0.25, 0.00, and 1.00, and the default value is 1.00.
- Step 6** Press the **UP** or **DOWN** button to select **ALARM**, and press the **OK** button to open the **ALARM** interface, as shown in Figure 2-19.

**Figure 2-19** ALARM interface



1. Press the **UP** or **DOWN** button to select **VIEW TYPE**, and press the **LEFT** or **RIGHT** button to set this parameter. The options are **ALL**, **OFF**, **BLOCK**, and **OUTLINE**.
  2. Press the **UP** or **DOWN** button to select **OSD View**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**. The default value is **ON**.
  3. Press the **UP** or **DOWN** button to select **ALARM OUT.**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**. The default value is **ON**.
  4. Press the **UP** or **DOWN** button to select **TIME**, and press the **LEFT** or **RIGHT** button to set this parameter. The default value is 3.
  5. Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the **MOTION** interface.
- Step 7** Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the **SPECIAL** interface.

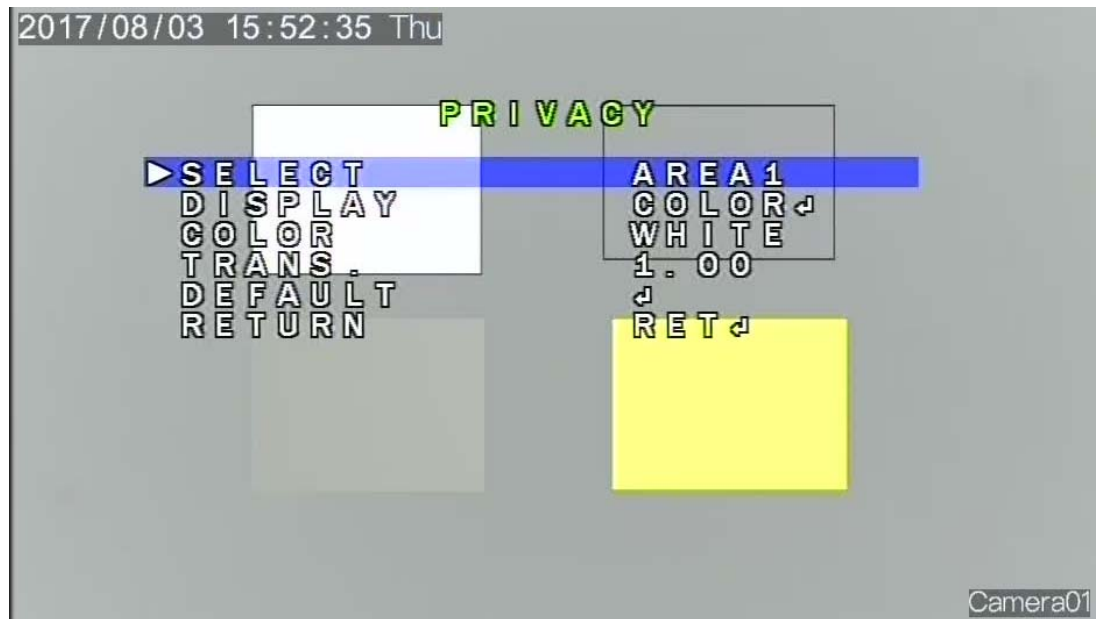
----End

## 2.7.4 PRIVACY

Press the **UP** or **DOWN** button to select **PRIVACY**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.

Set **PRIVACY** to **ON** and press the **OK** button to open the **PRIVACY** interface, as shown in Figure 2-20.

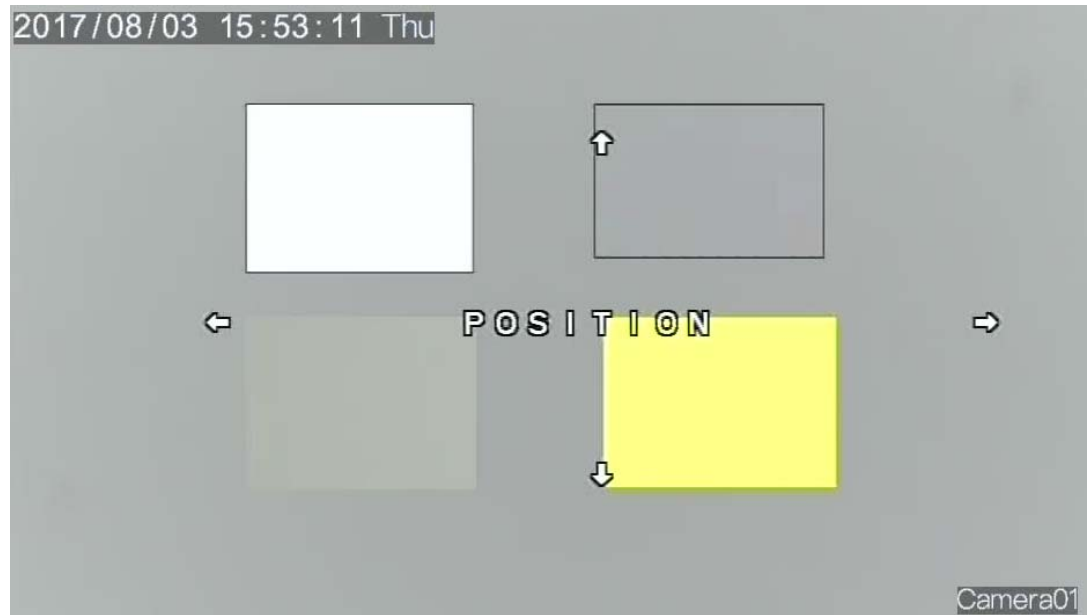
Figure 2-20 **PRIVACY** interface



### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **SELECT**, and press the **LEFT** or **RIGHT** button to select the desired area.
- Step 2** Press the **UP** or **DOWN** button to select **DISPLAY**, and press the **LEFT** or **RIGHT** button to set this parameter. The options are **COLOR**, **MOSAIC**, **INV.**, and **OFF**. The default value is **COLOR**.

Set **DISPLAY** to a value other than **OFF** and press the **OK** button to open the area setup area, as shown in Figure 2-21.

**Figure 2-21** Area setup interface.

Privacy area setup is the same as HSBLC area setup. For details, see Step 2 of section 2.3.1 "HSBLC."

- Step 3** Press the **UP** or **DOWN** button to select **COLOR**, and press the **LEFT** or **RIGHT** button to set this parameter. The options are **WHITE**, **USER**, **CYAN**, **GREEN**, **BLUE**, **RED**, and **BLACK**. The default value is **WHITE**.
- Step 4** Press the **UP** or **DOWN** button to select **TRANS**, and press the **LEFT** or **RIGHT** button to set this parameter. The options are 0.75, 0.25, 0.00, and 1.00, and the default value is 1.00.
- Step 5** Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the **SPECIAL** interface.

----End

## 2.7.5 LANGUAGE

Press the **UP** or **DOWN** button to select **LANGUAGE**, and press the **LEFT** or **RIGHT** button to set this parameter. There are 12 options, including **CHIN1**, **HIN2**, **GER**, **FRA**, **ITA**, and **SPA**, and so on.

## 2.7.6 DEFECT

Press the **UP** or **DOWN** button to select **DEFECT**, and press the **OK** button to open the **DEFECT** interface, as shown in Figure 2-22.

Figure 2-22 DEFECT interface

**NOTE**

The parameters on the **DEFECT** interface are set to the optimal default values and do not need to be modified.

### 2.7.6.1 LIVE DPC

The **LIVE DPC** parameter indicates real-time defect pixel compensation. Only white defect pixels can be compensated, whereas black defect pixels cannot be compensated.

Press the **UP** or **DOWN** button to select **LIVE DPC**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.

Set **LIVE DPC** to **ON** and press the **OK** button to open the **LIVE DPC** interface, as shown in Figure 2-23.

**Figure 2-23 LIVE DPC interface**

## Procedure

- Step 1** Press the **UP** or **DOWN** button to select **AGC LEVEL**, and press the **LEFT** or **RIGHT** button to set this parameter.
- Step 2** Press the **UP** or **DOWN** button to select **LEVEL**, and press the **LEFT** or **RIGHT** button to set this parameter.
- Step 3** Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the DEFECT interface.

----End

### 2.7.6.2 WHITE DPC

Press the **UP** or **DOWN** button to select **WHITE DPC**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.

Set **WHITE DPC** to **ON** and press the **OK** button to open the **WHITE DPC** interface, as shown in Figure 2-24.

Figure 2-24 WHITE DPC interface



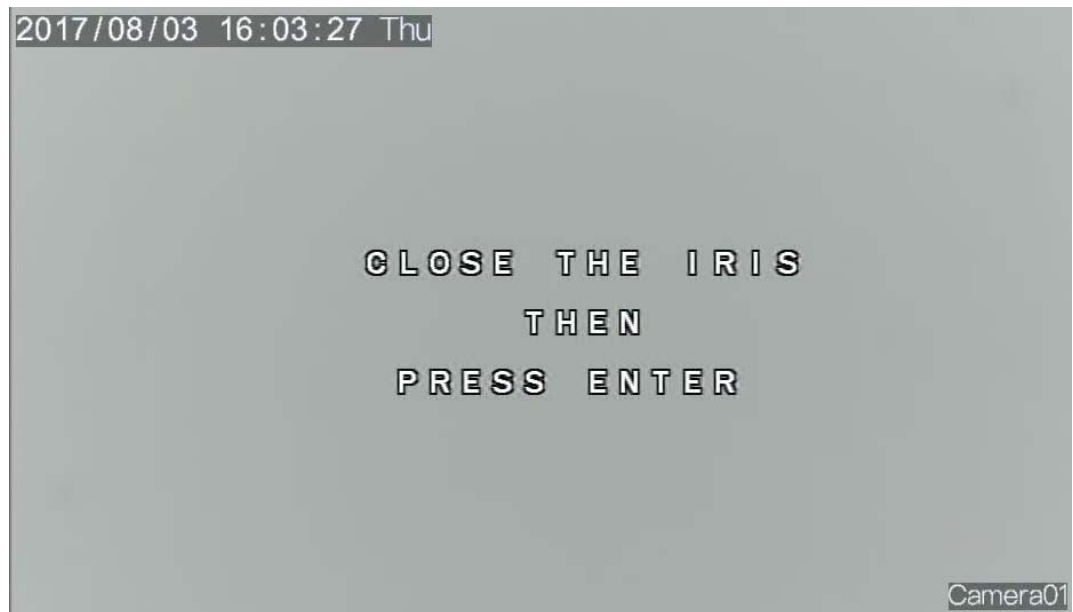
**Procedure**

- Step 1** Press the **UP** or **DOWN** button to select **POS/SIZE**, and press the **OK** button to open the **POS/SIZE** interface, as shown in Figure 2-25.

Figure 2-25 POS/SIZE interface



- Step 2** Press the **UP** or **DOWN** button to select **START**, and press the **OK** button to open the **DPC** interface, as shown in Figure 2-26.

**Figure 2-26 DPC interface**

- Step 3** Press the **UP** or **DOWN** button to select **DPC VIEW**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.
- Step 4** Press the **UP** or **DOWN** button to select **LEVEL**, and press the **LEFT** or **RIGHT** button to set this parameter. The value range is 0–60, and the default value is 35.
- Step 5** Press the **UP** or **DOWN** button to select **AGC**, and press the **LEFT** or **RIGHT** button to set this parameter. The value range is 0–14, and the default value is 14.
- Step 6** Press the **UP** or **DOWN** button to select **SENS-UP**, and press the **LEFT** or **RIGHT** button to set this parameter. The options are  $\times 2$ 、 $\times 4$ 、 $\times 8$ 、 $\times 10$ 、 $\times 15$ 、 $\times 20$ 、 $\times 25$ 、 $\times 30$ , and the default value is  $\times 2$ .
- Step 7** Press the **UP** or **DOWN** button to select **RETURN**, and press the **SET** button to return to the **WHITE DPC** interface.

### 2.7.6.3 BLACK DPC

Press the **UP** or **DOWN** button to select **BLACK DPC**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.

Set **BLACK DPC** to **ON** and press the **OK** button to open the **BLACK DPC** interface, as shown in Figure 2-27.

Figure 2-27 BLACK DPC interface



**Procedure**

- Step 1** Press the **UP** or **DOWN** button to select **POS/SIZE**, and press the **OK** button to open the **POS/SIZE** interface, as shown in Figure 2-28.

Figure 2-28 POS/SIZE interface



- Step 2** Press the **UP** or **DOWN** button to select **START**, and press the **OK** button to open the **START** interface to set compensation, as shown in Figure 2-29.



**Figure 2-29 START interface**

- Step 3** Press the **UP** or **DOWN** button to select **DPC VIEW**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.
- Step 4** Press the **UP** or **DOWN** button to select **LEVEL**, and press the **LEFT** or **RIGHT** button to set this parameter.
- Step 5** Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the **DEFECT** interface.

----End

## 2.7.7 RS485

Press the **UP** or **DOWN** button to select **RS485**, and press the **OK** button to open the **RS485** interface, as shown in Figure 2-30.

Figure 2-30 RS485 interface



## Procedure

- Step 1** Press the **UP** or **DOWN** button to select **CAM ID**, and press the **LEFT** or **RIGHT** button to set this parameter.
- Step 2** Press the **UP** or **DOWN** button to select **ID DISPLAY**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.
- Step 3** Press the **UP** or **DOWN** button to select **BAUD RATE**, and press the **LEFT** or **RIGHT** button to set this parameter. The options are **38400**, **19200**, **9600**, **4800**, and **2400**.
- Step 4** Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the **SPECIAL** interface.
- Step 5** After all functions are set, press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the OSD main menu interface.

----End

## 2.7.8 ADJUST

Press the **UP** or **DOWN** button to select **ADJUST**, and press the **OK** button to open the **ADJUST** interface, as shown in Figure 2-31.

Figure 2-31 ADJUST interface



**Procedure**

- Step 1** Press the **UP** or **DOWN** button to select **SHARPNESS**, and press the **OK** button to open the **SHARPNESS** interface, as shown in Figure 2-32.

Figure 2-32 SHARPNESS interface



- 1. Press the **UP** or **DOWN** button to select **LEVEL**, and press the **LEFT** or **RIGHT** button to set this parameter.

2. Press the **UP** or **DOWN** button to select **START AGC**, and press the **LEFT** or **RIGHT** button to set this parameter.
3. Press the **UP** or **DOWN** button to select **END AGC**, and press the **LEFT** or **RIGHT** button to set this parameter.
4. Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the ADJUST interface.

**Step 2** Press the **UP** or **DOWN** button to select **MONITOR**, and press the **OK** button to open the **LCD** interface, as shown in Figure 2-33.

**Figure 2-33** LCD interface



1. Press the **UP** or **DOWN** button to select **BLACK LEVEL**, and press the **LEFT** or **RIGHT** button to set this parameter
2. Press the **UP** or **DOWN** button to select **GAMMA**, and press the **LEFT** or **RIGHT** button to set this parameter.
3. Press the **UP** or **DOWN** button to select **BLUE GAIN**, and press the **LEFT** or **RIGHT** button to set this parameter.
4. Press the **UP** or **DOWN** button to select **RED GAIN**, and press the **LEFT** or **RIGHT** button to set this parameter.
5. Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the ADJUST interface.

**Step 3** Press the **UP** or **DOWN** button to select **LSC**, and press the **LEFT** or **RIGHT** button to set this parameter to **ON** or **OFF**.

**Step 4** Press the **UP** or **DOWN** button to select **NTSC/PAL**, and press the **LEFT** or **RIGHT** button to set this parameter to **NTSC** or **PAL**.

**Step 5** Press the **UP** or **DOWN** button to select **RETURN**, and press the **OK** button to return to the OSD main menu interface.

----End

## 2.7.9 EXIT

Press the **UP** or **DOWN** button to select **EXIT**, and press the **LEFT** or **RIGHT** button to set this parameter.

**SAVE&END**: Save settings, exit the OSD main menu interface, and return to the camera's real-time video interface.

**NOT SAVE**: Discard the OSD settings and return to the camera's real-time video interface.

**RESET**: Reset the OSD settings to default values and return to the OSD main menu interface.

**---End**