

# **Camera (IV) OSD (2.0MP)**

## **Operation Guide**

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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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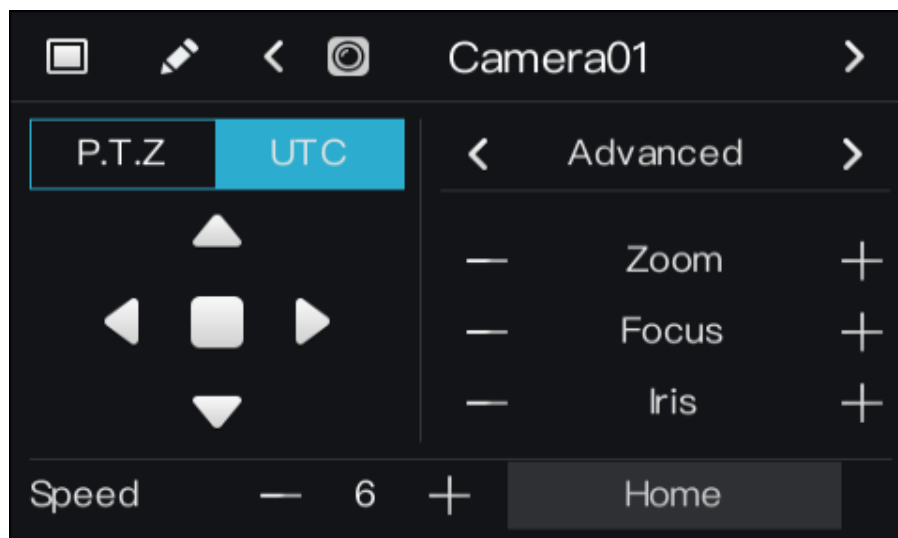
# 1 OSD Main Menu

## 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 SET button.



: up



: down



: left



: right



: SET button

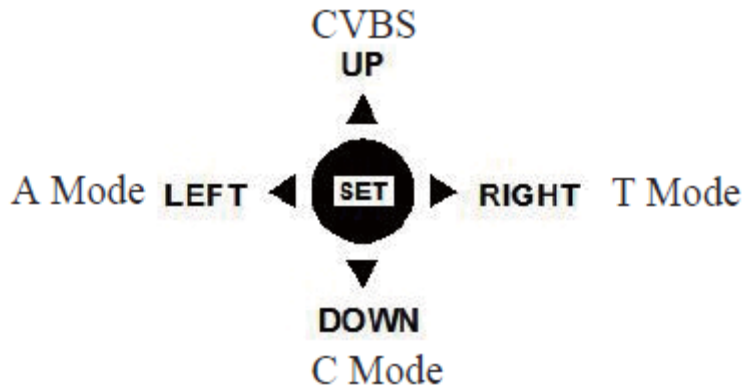
**Step 2** Click the **SET** button to open the OSD main menu or end setup.

----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



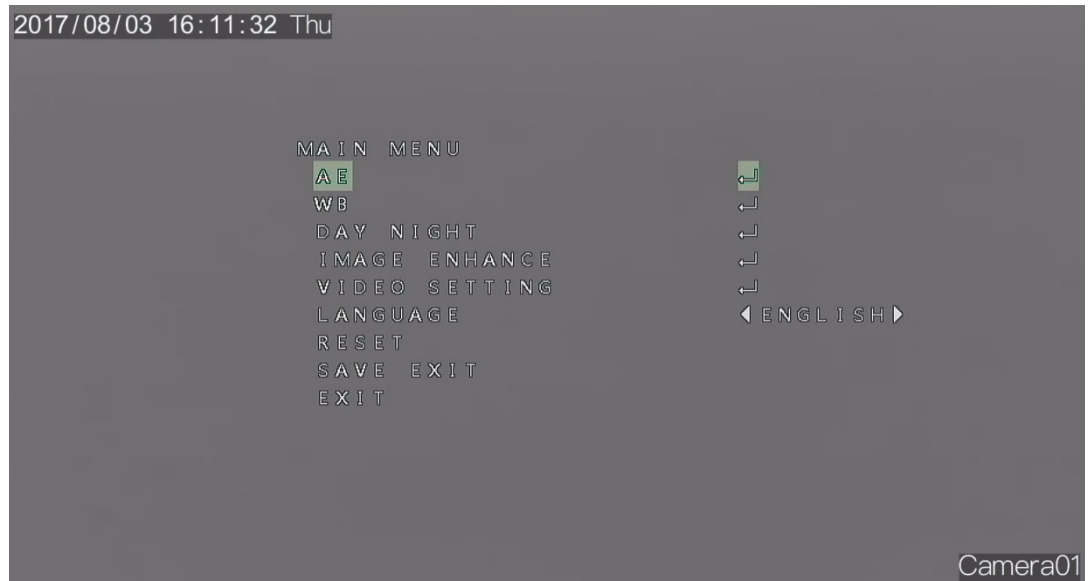
**The buttons have the following functions:**

- **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 **AE**, **WB**, **DAY-NIGHT**, **IMAGE ENHANCE**, **VIDEO SETTING**, **LANGUAGE** and **RESET**, as shown in Figure 1-3.

**Figure 1-3** OSD main menu interface

---End

# 2 OSD Setting

## 2.1 Exposure

AE is intended to adjust image brightness by setting parameters such as aperture, shutter, and gain. The **EXPOSURE** interface includes **BRIGHTNESS**, **EXPOSURE MODE** and **GAIN**.

### Procedure

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

**Figure 2-1** **EXPOSURE** interface

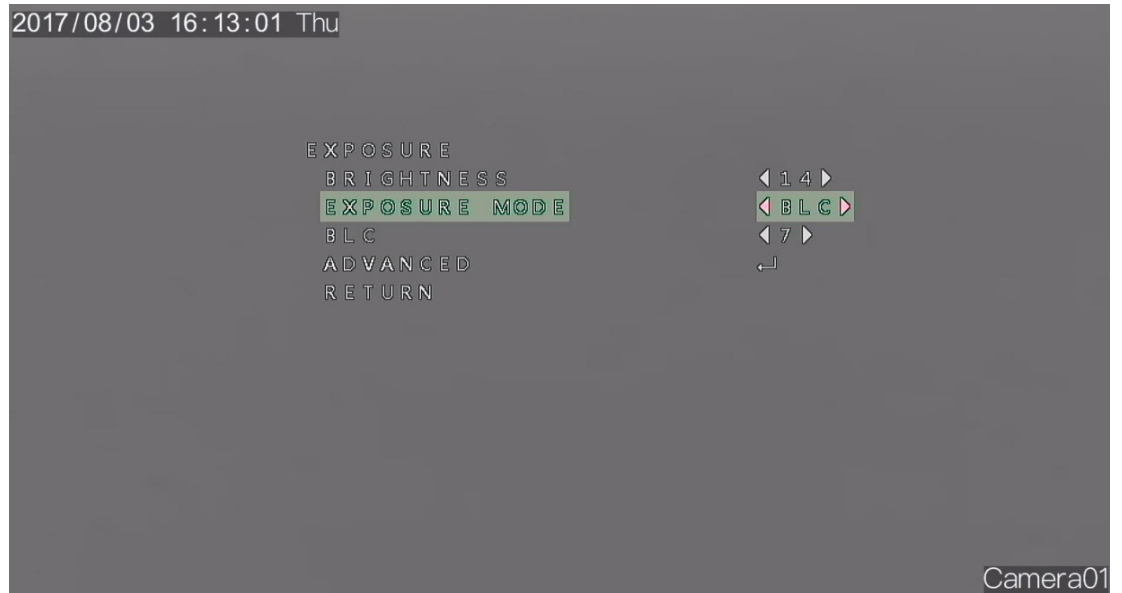


- Step 3** Press the **UP** or **DOWN** button to select **BRIGHTNESS** and press the **LEFT** or **RIGHT** button to select a brightness value. The default brightness is 12 and the setting range is 1-20.
- Step 4** Press the **UP** or **DOWN** button to select **EXPOSURE MODE** and press the **LEFT** or **RIGHT** button to select a exposure mode.  
The **EXPOSURE MODE** includes **GLOBE** and **BLC**.



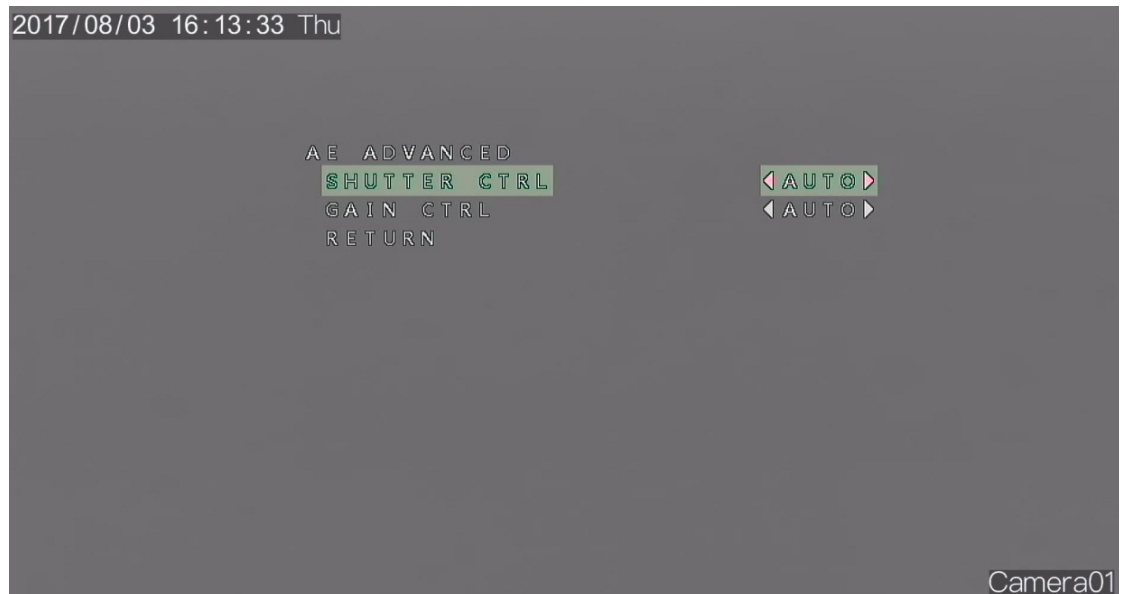
1. When **BLC** mode is selected, press the **UP** or **DOWN** button to select **BLC** and press the **LEFT** or **RIGHT** button to select a BLC value. The default BLC is 7 and the setting range is 0-8 (this step is only for BLC mode) as shown in Figure 2-2.

**Figure 2-2 EXPOSURE** interface (For BLC mode)



- Step 5** Press the **UP** or **DOWN** button to select **ADVANCED** and press and press the **OK** button to open the AE ADVANCED interface, as shown in Figure 2-3.

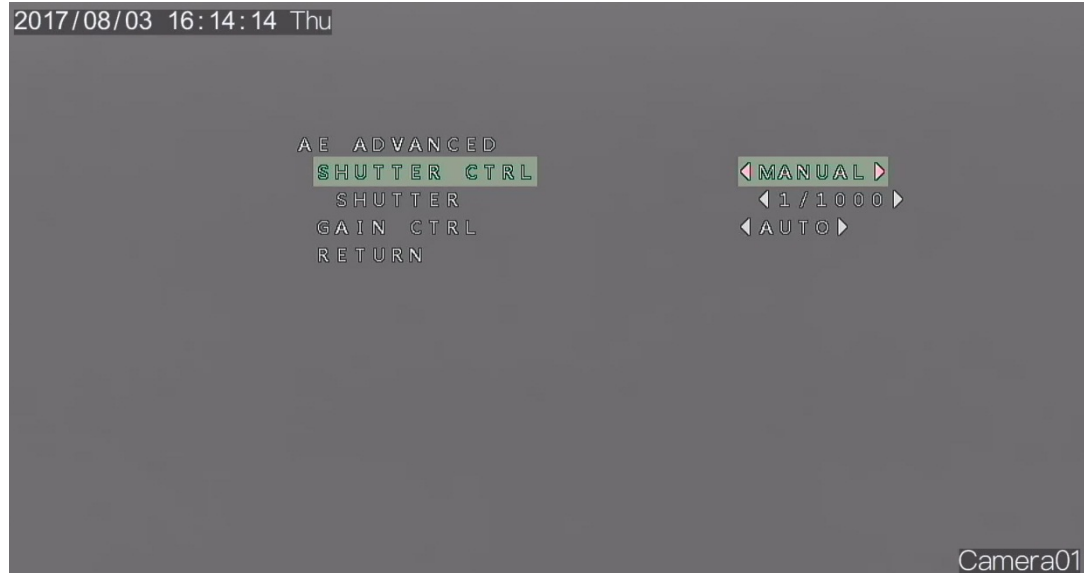
**Figure 2-3 AE ADVANCED** interface



1. Press the **UP** or **DOWN** button to select **SHUTTER CTRL** and press the **LEFT** or **RIGHT** button to select AUTO or MANUAL.

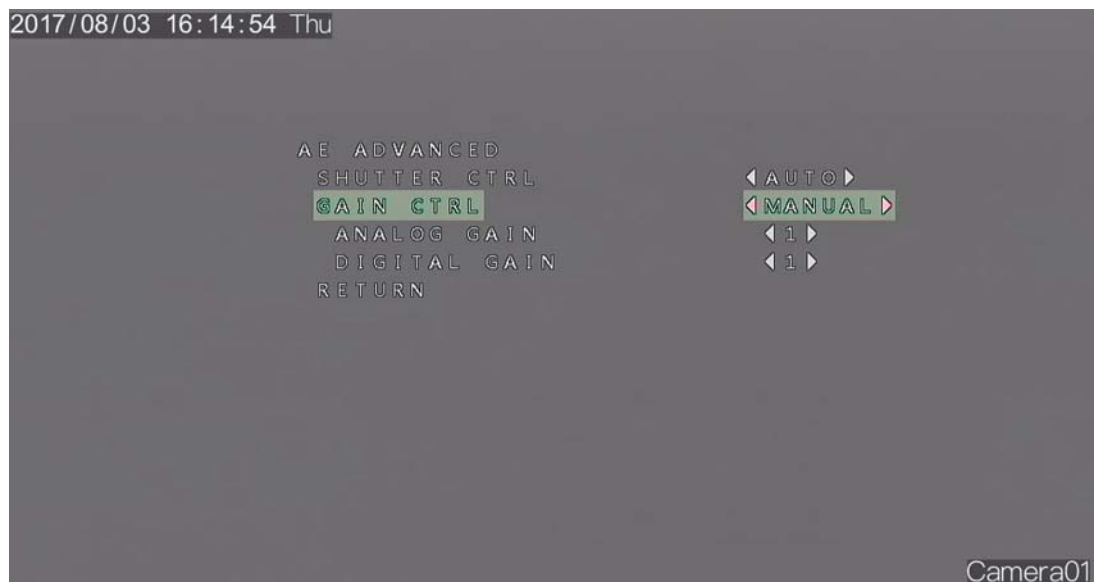
- When manual mode is selected, press the **UP** or **DOWN** button to select **SHUTTER** and press the **LEFT** or **RIGHT** button to select a shutter value. The default shutter value is 1/1000 and the setting range is 1/25-1/10000, as shown in Figure 2-4.

**Figure 2-4 Manual SHUTTER CTRL interface**



- Press the **UP** or **DOWN** button to select **GAIN CTRL** and press the **LEFT** or **RIGHT** button to select **AUTO** or **MANUAL**.  
When **MANUAL** mode is selected, you can set **GAIN CTRL** value, as shown in Figure 2-5.

**Figure 2-5 Manual GAIN CTRL interface**



- Press the **UP** or **DOWN** button to select **ANALOG GAIN** and press the **LEFT** or **RIGHT** button to select a analog gain value. The default ANALOG GAIN is 1 and the setting range is 1-16.
  - Press the **UP** or **DOWN** button to select **DIGITAL GAIN** and press the **LEFT** or **RIGHT** button to select a digital gain value. The default DIGITAL GAIN is 1 and the setting range is 1-15.
4. Press the **UP** or **DOWN** button to select **RETURN** and press the **SET** return to the exposure interface.
- Step 6** Press the **UP** or **DOWN** button to select **RETURN** and press the **SET** return to the OSD main menu interface.
- Step 7** Press the **UP** or **DOWN** button to select **SAVE-EXIT** to save the exposure setting.
- End

## 2.2 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 **WB** to **ATW** or **MWB**.

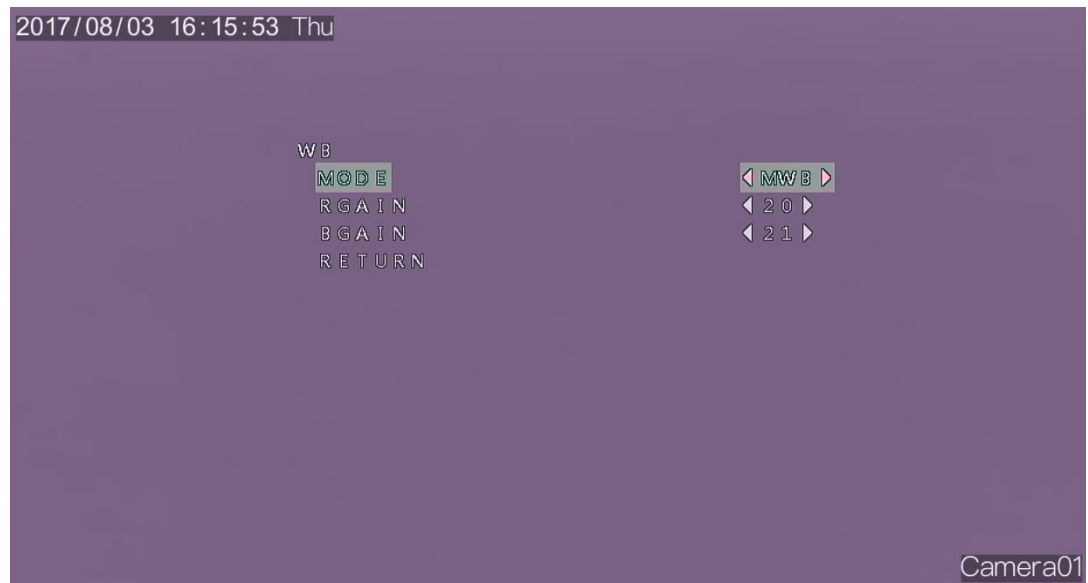
### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **WB**. Press the **SET** button to open the **WB** interface, as shown in Figure 2-6.

**Figure 2-6** WB interface



- Step 2** Press the **LEFT** or **RIGHT** button to set the **MODE**. The options are **ATW** and **MWB**.  
When **MWB** mode is selected, you can set white balance parameters, as shown in Figure 2-7.

**Figure 2-7** MWB interface

1. Press the **UP** or **DOWN** button to select **RGAIN**, and press the **LEFT** or **RIGHT** button to set **RGAIN**. The default **RGAIN** is 20 and the setting range is 0-32.
2. Press the **UP** or **DOWN** button to select **BGAIN**, and press the **LEFT** or **RIGHT** button to set **BGAIN**. The default **BGAIN** is 21 and the setting range is 0-32.

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

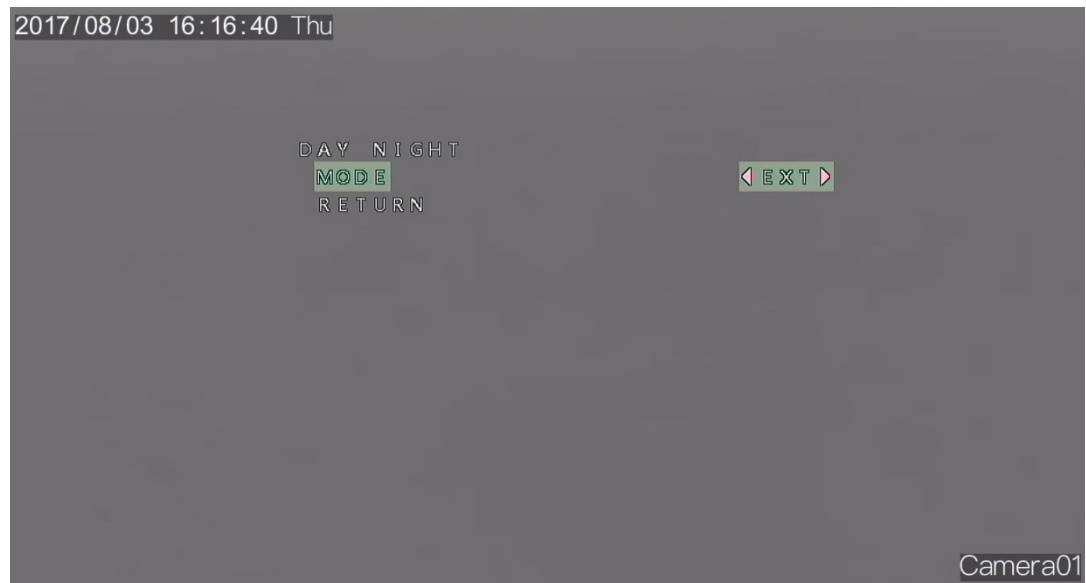
**Step 4** Press the **UP** or **DOWN** button to select **SAVE-EXIT** to save the WB setting.

## 2.3 Day-Night

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

### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **Day-Night**. Press the **SET** button to open the **Day/Night** interface, as shown in Figure 2-8.

**Figure 2-8 DAY/NIGHT interface**

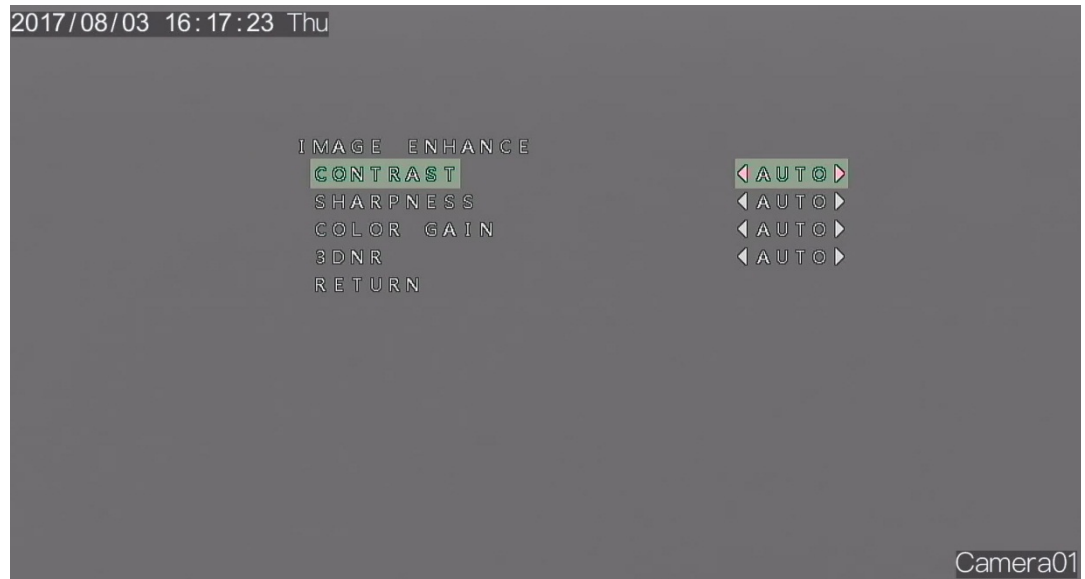
- Step 2** Press the **LEFT** or **RIGHT** button to set the Mode.
- Step 3** Press the **UP** or **DOWN** button to select **RETURN** and press the **SET** return to the OSD main menu interface.
- Step 4** Press the **UP** or **DOWN** button to select **SAVE-EXIT** to save the DAY-NIGHT setting.

## 2.4 IMAGE ENHANCE

The **IMAGE ENHANCE** interface includes **CONTRAST**, **SHARPNESS**, **COLOR GAIN** and **3DNR**.

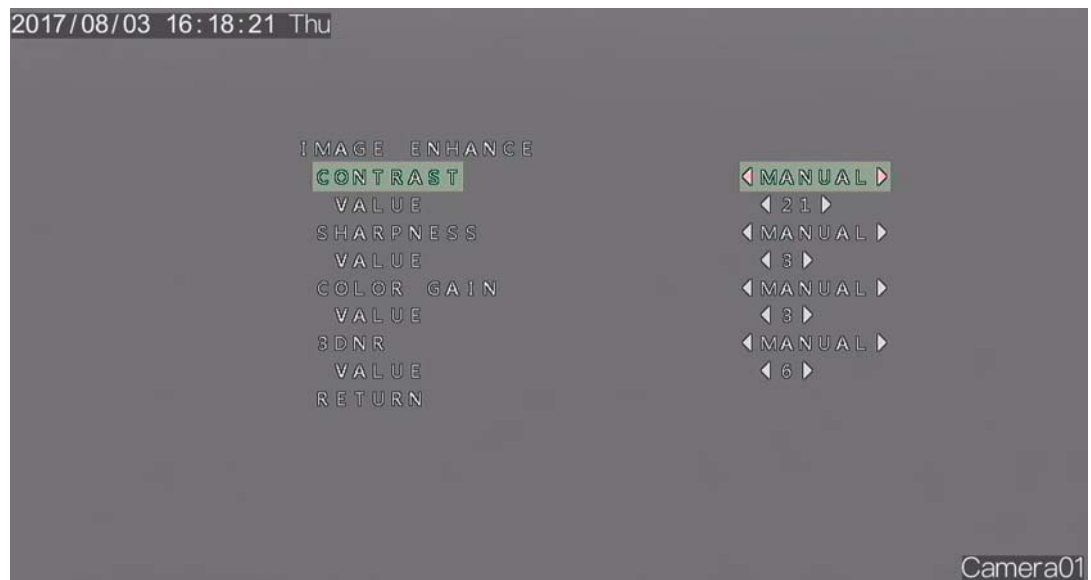
### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **IMAGE ENHANCE**. Press the **SET** button to open the **IMAGE ENHANCE** interface, as shown in Figure 2-9.

**Figure 2-9 IMAGE ENHANCE** interface

**Step 2** Press the **UP** or **DOWN** button to select **CONTRAST**. Press the **LEFT** or **RIGHT** button to select **AUTO** or **MANUAL**.

When **MANUAL** mode is selected, you can set contrast value. Press **UP** or **DOWN** button to select **value**. Press the **LEFT** or **RIGHT** button to set the value. The default contrast value is 21 and the setting range is 0-40, as shown in Figure 2-10.

**Figure 2-10 IMAGE ENHANCE** interface (For manual mode)

**Step 3** Press the **UP** or **DOWN** button to select **SHARPNESS**. Press the **LEFT** or **RIGHT** button to select **AUTO** or **MANUAL**.

When manual mode is selected, you can set sharpness value. Press **UP** or **DOWN** button to select **value**. Press the **LEFT** or **RIGHT** button to set the value. The default sharpness value is 3 and the setting range is 0-16, as shown in Figure 2-10.

- Step 4** Press the **UP** or **DOWN** button to select **COLOR GAIN**. Press the **LEFT** or **RIGHT** button to select **AUTO** or **MANUAL**.

When manual mode is selected, you can set color gain value. Press **UP** or **DOWN** button to select **value**. Press the **LEFT** or **RIGHT** button to set the value. The default color gain value is 3 and the setting range is 0-30, as shown in Figure 2-10.

- Step 5** Press the **UP** or **DOWN** button to select **3DNR**. Press the **LEFT** or **RIGHT** button to select **AUTO** or **MANUAL**.

When manual mode is selected, you can set 3DNR value. Press **UP** or **DOWN** button to select **value**. Press the **LEFT** or **RIGHT** button to set the value. The default 3DNR value is 6 and the setting range is 0-30, as shown in Figure 2-10.

- Step 6** Press the **UP** or **DOWN** button to select **RETURN** and press the **SET** return to the OSD main menu interface.

- Step 7** Press the **UP** or **DOWN** button to select **SAVE-EXIT** to save the VIDEO setting.

## 2.5 VIDEO SETTING

The **VIDEO SETTING** interface includes **VIDEOSTANDARD**, **HD FORMATE** and **WDR**.

### Procedure

- Step 1** Press the **UP** or **DOWN** button to select **VIDEO SETTING**. Press the **SET** button to open the **VIDEO SETTING** interface, as shown in Figure 2-11.

**Figure 2-11 VIDEO SETTING interface**



- Step 2** Press the **UP** or **DOWN** button to select **VIDEO STANDARD**. Press the **LEFT** or **RIGHT** button to set the **VIDEO STANDARD** value. Video standard includes PAL and NTSC.
- Step 3** Press the **UP** or **DOWN** button to select **HD FORMATE**. Press the **LEFT** or **RIGHT** button to set the HD format. HD format includes AHD, CVI, CVBS, TVI.
- Step 4** Press the **UP** or **DOWN** button to select **WDR**. Press the **LEFT** or **RIGHT** button to set the WDR value. WDR includes EXT, OPEN or CLOSE.
- Step 5** Press the **UP** or **DOWN** button to select **RETURN** and press the **SET** return to the OSD main menu interface.
- Step 6** Press the **UP** or **DOWN** button to select **SAVE-EXIT** to save the VIDEO setting.

## 2.6 LANGUAGE

Press the **UP** or **DOWN** button to select **LANGUAGE**, and press the **LEFT** or **RIGHT** button to set this parameter. There are 10 options, including 中文,ESPAÑOL,繁体中文, ITALIAN,ENGLISH and so on.

## 2.7 RESET

Press the **UP** or **DOWN** button to select **RESET**, and press the **SET** button to reset the camera OSD parameter.

## 2.8 SAVE-EXIT

Press the **UP** or **DOWN** button to select **SAVE-EXIT**, and press the **SET** button to save the OSD settings and return to the camera's real-time video interface.

## 2.9 EXIT

Press the **UP** or **DOWN** button to select **EXIT**, and press the **SET** button to discard the OSD settings and return to the camera's real-time video interface.