4MP HD Analog Camera
OSD Operation Manual

Operation Guide

If you have any questions, please call W Box Tech Support 1-833-574-9124 for assistance.
About This Document

Purpose

This document describes how to use the web management system for DVR and the cameras managed by DVR.

Symbol Conventions

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

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="DANGER" /></td>
<td>Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.</td>
</tr>
<tr>
<td><img src="image" alt="WARNING" /></td>
<td>Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.</td>
</tr>
<tr>
<td><img src="image" alt="CAUTION" /></td>
<td>Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.</td>
</tr>
<tr>
<td><img src="image" alt="NOTICE" /></td>
<td>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.</td>
</tr>
<tr>
<td><img src="image" alt="NOTE" /></td>
<td>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.</td>
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1 OSD Main Menu

1.1 Procedure

1.1.1 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 1-1 shows the five buttons.

![Five-button layout](image)

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.

----End

1.2 OSD Main Menu Interface

The OSD main menu interface includes **AE**, **AWB**, **DAY-NIGHT**, **VIDEO OUTPUT**, **LANGUAGE**, **RESET**, **SAVE - EXIT**, and **EXIT**, as shown in Figure 1-2.
Figure 1-2 OSD main menu interface
2 OSD Setting

2.1 AE

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

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 6 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 an exposure mode.

The exposure mode includes GLOBE, and BLC.

- BLC: Press the LEFT or RIGHT button to select BLC, press the LEFT or RIGHT button to adjust BLC value. The default BLC is 5 and the setting range is 1-9.
- GLOBE: Press the LEFT or RIGHT button to select BLC.

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

----End

2.2 AWB

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 AWB. Press the SET button to open the WB interface, as shown in Figure 2-2.

Figure 2-2 AWB interface

Step 2 Press the LEFT or RIGHT button to set the MODE. The options are ATW and MWB. The default mode is GRAY WORLD

When MWB mode is selected, you can set white balance parameters, as shown in Figure 2-3.
1. Press the UP or DOWN button to select RGAIN, and press the LEFT or RIGHT button to set RGAIN. The default RGAIN is 40 and the setting range is 1-127.

2. Press the UP or DOWN button to select BGAIN, and press the LEFT or RIGHT button to set BGAIN. The default BGAIN is 30 and the setting range is 1-127.

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

----End

2.3 DAY-NIGHT

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

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 2-4.
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.

----End

2.4 IMAGE ENHANCE

The Image Enhance interface includes CONTRAST, SHARPNESS, COLOR GAIN, DNR, MIRROR and D-WDR, as shown in Figure 2-5.
Procedure

Step 2 Press the **UP** or **DOWN** button to select **IMAGE ENHANCE**. Press the **SET** button to open the **IMAGE ENHANCE** interface.

Step 3 Press the **UP** or **DOWN** button to select **CONTRAST**. Press the **LEFT** or **RIGHT** button to set the **CONTRAST** value. The default contrast is 4 and the setting range is 1-16.

Step 4 Press the **UP** or **DOWN** button to select **SHARPNESS**. Press the **LEFT** or **RIGHT** button to set the **SHARPNESS** value. The default sharpness is 6 and the setting range is 1-16.

Step 5 Press the **UP** or **DOWN** button to select **COLOR GAIN**. Press the **LEFT** or **RIGHT** button to set the **COLOR GAIN** value. The default color gain is 10 and the setting range is 1-16.

Step 6 Press the **UP** or **DOWN** button to select **DNR**. Press the **LEFT** or **RIGHT** button to set the **DNR** value. The default DNR is 4 and the setting range is 1-16.

Step 7 Press the **UP** or **DOWN** button to select **MIRROR**. Press the **LEFT** or **RIGHT** button to set the **MIRROR** value. The **MIRROR** mode includes **DEFAULT**, **H**, **V** and **HV**, the default is **DEFAULT**.

Step 8 Press the **UP** or **DOWN** button to select **D-WDR**. Press the **LEFT** or **RIGHT** button to choose **OFF** or **ON**.

Step 9 Press the **UP** or **DOWN** button to select **RETURN** and press the **SET** return to the OSD main menu interface.
2.5 VIDEO OUTPUT

The Video Output interface includes HD and VIDEO STANDRAD.

Procedure

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

![Video Setting interface](image)

Figure 2-6 Video Setting interface

Step 2  Press the UP or DOWN button to select HD, and press the LEFT or RIGHT button the interface will show more item REBOOT & APPLY. The options are AHD, CVBS, TVI and CVI. The default value is AHD.

Step 3  Press the UP or DOWN button to select VIDEO STANDARD and press the LEFT or RIGHT button to choose. When the HD mode is CVBS, the video standard modes are PAL and NTSC. Other HD modes, video standard are 4MP 25, 4MP 30 4MP 15, 1080P25 and 1080O30. The default value is 4MP 25. Switch the standard the screen will show APPLY &REBOOT. Press the SET to apply standard.

Step 4  Press the UP or DOWN button to select RETURN and press the SET return to the OSD main menu interface.

2.6 LANGUAGE

Press the UP or DOWN button to select LANGUAGE, and press the LEFT or RIGHT button to set this parameter. Supports 3 languages, English, Chinese, Traditional Chinese.
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.