

TVIEIR60

Pay 120016

HD-TVI Full HD 1080p Outdoor 60' IR Eyeball



USER GUIDE

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Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact us.

This manual may contain several technical incorrect places or printing errors, and the content is subject to change without notice. The updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.

Privacy Notice

Surveillance laws vary by jurisdiction. Check all relevant laws in your jurisdiction before using this product for surveillance purposes to ensure that your use of this product conforms.

Please refer to the product specification for camera parameters and functions.

Regulatory Information

FCC Information

FCC compliance: This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement

C€

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European

standards listed under the Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive):
Products marked with this symbol
cannot be disposed of as unsorted
municipal waste in the European
Union. For proper recycling, return
this product to your local supplier

upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union.

See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

1 Introduction

1.1 Product Features

This series of camera adopts new generation sensor with high sensitivity and advanced circuit design technology. It features high resolution, low image distortion and low noise, etc., which makes it suitable for surveillance system and image processing system.

- High performance CMOS sensor and high resolution bring high-quality image;
- Low illumination;
- OSD menu, parameters are configurable;
- Support auto white balance, auto gain control, electronic shutter control;
- Support image effect adjustment;
- Unit transmission control;
- Advanced 3-axis design meets different installation requirements.

1.2.2 Overview of Type II Camera

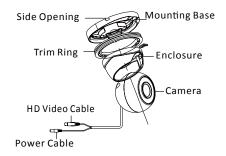


Figure 1-2 Overview of Type II Camera

2 Installation

Before you start:

- Please make sure that the device in the package is in good condition and all the assembly parts are included.
- Make sure that all the related equipment is power-off during the installation.
- •Check the specification of the products for the installation environment.
- Check whether the power supply is matched with your power output to avoid damage.
- Please make sure the wall is strong enough to withstand three times the weight of the camera and the mounting.
- •If the wall is the cement wall, you need to insert expansion screws before you install the camera. If the wall is the wooden wall, you can use self-tapping screw to secure the camera.
- If the product does not function properly, please contact your dealer or the nearest service center. Do not disassemble the camera for repair or maintenance by yourself.

2.1 Wall Mounting

1.Drill the screw holes according to the drill template.

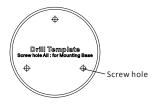


Figure 2-1 The Drill Template

2. Screw the clip plate onto the mounting base loosely.



Figure 2-2 Screw the Clip Plate

- 3. Fix the mounting base to the ceiling with the supplied screws.
- 4. Route the cables through the side opening and connect the corresponding power cable and video cable.
- 5. Pull out the clip plate and secure the camera with the trim ring to the mounting base.
- 6. Push the clip plate in and tighten the lock screw to secure the trim ring.

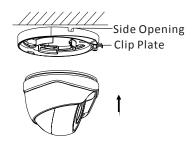


Figure 2-3 Fix the the Camera

7. Adjust the camera according to the figure 2-7 to get an optimum angle and tighten the trim ring.

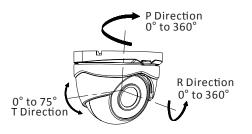


Figure 2-4 3-axis Adjustment

3 Menu Description

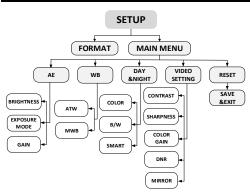


Figure 3-1 Main Menu Overview



- With a camera controller (purchased separately) or calling the preset No. 95 of DVR you can select the menu and adjust the parameters.
- Move the cursor up/down to select the menu item.
- Move the cursor left/right to adjust the value of the selected item.
- Press the **OK** key to confirm a selection.

3.1 Format

Move the cursor to **FORMAT**, and press the menu button to enter the FORMAT sub menu. You can set the format of camera and confirm.

3.2 Main Menu

3.2.2 AE (Auto Exposure)

AE describes the brightness-related parameters. You can adjust the image brightness by the **BRIGHTNESS**, **EXPOSURE MODE**, and **GAIN** in different light conditions.

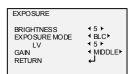


Figure 3-2 AE

BRIGHTNESS

Brightness refers to the brightness of the image. You can set the brightness value from 1 to 10 to darken or brighten the image. The higher the value is, the brighter the image is.

EXPOSURE MODE

You can set AE mode as GLOBAL and BLC.

GLOBAL

GLOBAL refers to the normal exposure mode which is for adjusting the situations including unusual lighting distribution, variations, non-standard processing, or other conditions of under exposure to get an optimum image.

BLC (Backlight Compensation)

BLC (Backlight Compensation) compensate light to the object in the front to make it clear, but this causes the over-exposure of the background where the light is strong.

When BLC is selected as the exposure mode, the BLC level can be adjusted from 0 to 8.

GAIN

It optimizes the clarity of image in poor light scene. The **GAIN** level can be set to **HIGH**, **MIDDLE**, and **LOW**. Select **OFF** to disable the **GAIN** function.



The noise will be amplified if the GAIN is on.

3.2.3 WB (White Balance)

White balance is the white rendition function of the camera to adjust the color temperature according to the environment. It can remove the unrealistic color casts in the image. You can set WB mode as **ATW**, and **MWB**.

ATW

In **ATW** mode, white balance is being adjusted automatically according to the color temperature of the scene illumination.

MWB

You can set the **R GAIN/B GAIN** value from 0 to 255 to adjust the shades of red/blue color of the image.

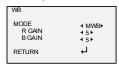


Figure 3-3 MWB Mode

3.2.4 DAY-NIGHT

Color, **B/W**, and **SMART** are selectable for DAY and NIGHT switches.

COLOR

The image is colored in day mode all the time.

B/W

The image is black and white all the time, and the IR LED turns on in the low-light conditions.

SMART

You can select to turn on/off the **INFRARED** and set the value of SMART IR in this menu.



Figure 3-4 Day & Night

INFRARED

You can select to turn on/off the IR LED to response to the requirements of different circumstances.

SMART IR

The **Smart IR** function is used to adjust the light to its most suitable intensity, and to prevent the image from over exposure. The **SMART IR** value can be adjusted from 0 to 3. The higher the value is, the more obvious effects are, and it is disabled when the value is 0.

3.2.5 VIDEO SETTING

Move the cursor to **VIDEO SETTING** and press the confirm button to enter the submenu. **CONTRAST**, **SHARPNESS**, **COLOR GAIN**, **DNR** and **MIRROR** are adjustable.

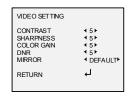


Figure 3-5 Video Setting

CONTRAST

This feature enhances the difference in color and light between parts of an image. You can set the **CONTRAST** value from 1 to 10.

SHARPNESS

Sharpness determines the amount of detail an imaging system can reproduce. You can set the **SHARPNESS** value from 1 to 10.

COLOR GAIN

Adjust this feature to change the saturation of the color. The value ranges from 1 to 10.

DNR (Digital Noise Reduction)

The DNR function can decrease the noise effect, especially when capturing moving images in low light conditions and delivering more accurate and sharp image quality.

You can set the **DNR** value from 1 to 10.

MIRROR

DEFAULT, H, V, and HV are selectable for mirror.

DEFAULT: The mirror function is disabled.

H: The image flips 180 degree horizontally.

V: The image flips 180 degree vertically.

HV: The image flips 180 degrees both horizontally and vertically.

3.2.6 RESET

Reset all the settings to the default.

3.2.7 SAVE &EXIT

Move the cursor to SAVE &EXIT and press OK to save the setting and exit the menu.