

HD-TVI Turret & Bullet Camera

User Manual

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

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

Privacy Notice

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

camera parameters and functions Please refer to the product specification for

Regulatory Information

FCC Information

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

FCC Conditions

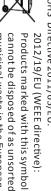
conditions: This device complies with part 15 of the FCC Rules. Operation is subject to the following two

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

EU Conformity Statement

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

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



or dispose of it at designated collection points. upon the purchase of equivalent new equipment Union. For proper recycling, return municipal waste in the European this product to your local supplier

For more information see: www.recyclethis.info ġ cannot be disposed of as unsorted 2006/66/EC (battery directive): This product contains a battery that

municipal waste in the European

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

1 Introduction

1.1 Product Features

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

 Support auto white balance, auto gain control, Advanced 3-axis design meets different Unit transmission control; Support image effect adjustment; OSD menu, parameters are configurable; Low illumination; electronic shutter control;

installation requirements.

specification of each model menu. For actual operation, please refer to the Cameras in some models do not support OSD

1.2 Overview

1.2.1 Overview of Type I Camera

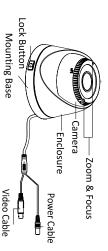


Figure 1-1 Overview of Type I Camera

1.2.2 Overview of Type ||Camera

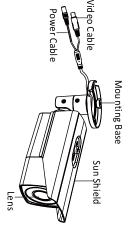


Figure 1-2 Overview of Type II Camera

2 Installation

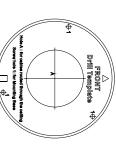
Before you start:

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

2.1 Installation of Type I Camera

Steps:

1.Drill the screw holes and the cable hole on the ceiling according to the supplied drill template.



2.Push the lock button to disassemble the camera Figure 2-1 The Drill Template

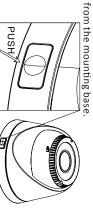


Figure 2-2 Release The Lock Screw

3.Fix the mounting base to the ceiling.

Route the cables to the cable hole and connect the corresponding cables.

5.Secure the camera to the mounting base by supplied screws. Keep the word UP on the camera

being upright during the installation to make the

image showing normally.

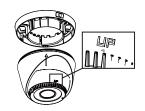


Figure 2-3 Secure the Camera

6.Adjust the camera according to the figure below to get an optimum angle.

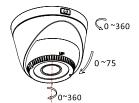


Figure 2-4 Universal Adjustment

7.Use the screwdriver to adjust the ZOOM screw and the FOCUS screw until you get the optimum image.

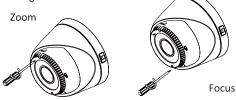


Figure 2-5 Zoom and Focus Adjustment

2.2 Installation of Type II Camera

Both wall mounting and ceiling mounting are suitable for type II bullet camera. Ceiling mounting will be taken as an example in the section. And you can take steps of ceiling mounting as a reference if wall mounting is adopted.

Steps:

- 1.Drill the screw holes and the cable hole in the ceiling according to the supplied drill template.
- 2.Hammer the supplied plastic expansion bolt into the screw holes.



Figure 2-6 Drill Template

3.Route the cables to the cable hole and connect the corresponding cables.

4.Fix the camera to the ceiling with the supplied



Figure 2-7 Fix the Camera to the Ceiling

- 5. Adjust the surveillance angle.
- Loosen No.1 adjusting screw to adjust the pan position (0° ~ 360°).
- 2).Tighten No.1 adjusting screw.
- Loosen No.2 adjusting screw to adjust the tilting position(0° ~ 90°).
- 4). Tighten No.2 adjusting screw.
- 5). Loosen No.3 adjusting screw to adjust the rotation position(0° ~ 360°).

6).Tighten No.3 adjusting screw.

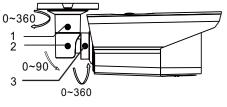
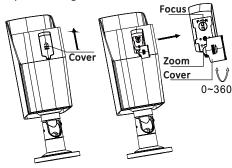
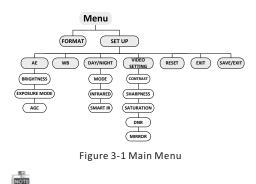


Figure 2-8 3-axis Adjustment

- 6.Push the focus &zoom adjustment cover upward to move it aside.
- 7.Use the cover as a screwdriver to adjust the ZOOM screw and the FOCUS screw until you get the optimum image.



3 Menu Operation



With a coaxial camera controller (purchase separately) or calling the preset No.95 you can select the menu and adjust the camera parameters.

3.1 FORMAT

You can set the format as PAL/NTSC.

3.2 SET UP

Move the cursor to **SET UP**, and press menu button to enter the SET UP sub menu.

3.2.1 AE

Move the cursor to AE, and you can adjust the image brightness by the **BRIGHTNESS**, **EXPOSURE MODE**, and **AGC**.

Brightness:

Brightness refers to the brightness of the image. **Exposure Mode:**

Move the cursor to **Exposure Mode**, you can select the exposure mode between **Globe** and **BLC**. When BLC is selected as the exposure mode, the level of BLC mode can be adjusted, as shown in the Figure 3-2.

EXPOSURE		WB MODE MWB	
1.BRIGHTNESS 2.EXPOSURE MODE LEVEL 3.AGC 4.RETURN	45 ↓ 4BLC↓ 45 ↓ 4MIDDLE↓ ↓	R GIAN B GAIN RETURN	1- 10 1- 10 ↓
		Figure 3	-3 W B

Figure 3-2 EXPOSURE

AGC:

AGC optimizes the clarity of image in poor light scene. AGC level can be set as OFF, LOW, MIDDLE and HIGH.

3.2.2 WB

Move the cursor to WB, and you can set White Balance mode as **AWB** and **MWB** in this menu.

AWB: white balance is being adjusted automatically. MWB: Set the R GAIN/B GAIN value from 1 to 10. As shown in Figure 3-3.

3.2.3 DAY & NIGHT

Move the cursor to DAY & NIGHT, and select COLOR, B/W, or SMART as the DAY & NIGHT mode. COLOR: The image is colored in day mode all the time.

B/W: The image is black & white all the time, and the IR LED turns on in the low-light conditions. **SMART**: Select to turn on/off the INFRARED_LAMP and to set the Smart IR level from 1to 16. As shown in Figure 3-4.

DAY/NIGHT				
MODE	SMART			
INFRARED	OFF			
SMART IR	0- 5			
RETURN	L)			

Figure 3-4 DAY/NIGHT

3.2.4 VIDEO SETTING

Contrast:

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

Sharpness:

Sharpness determines the amount of detail that an imaging system can reproduce.

You can set the value from 1 to 10.

Saturation:

You can set the saturation level of the image. The value is from 0 to 10.

DNR:

DNR decreases the noise effect, especially in low light conditions and delivers more accurate and sharp image quality. You can set the value from 0 to 7.

Mirror:

You can set the Mirror status as H, V, HV, or OFF.

3.2.5 Reset

Reset all the settings to the default.

3.2.6 EXIT

Exit and Save & exit are selectable.

3.2.7 SAVE/EXIT

Move the cursor to **SAVE & Exit**, and press OK to save the settings and exit the menu.

Figure 2-9 Zoom and Focus Adjustment