

HD-TVI Bullet Camera

User Manual

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

content is subject to change without notice. This manual may contain several technical 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 incorrect places or printing errors, and the

Privacy Notice

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

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

Regulatory Information

FCC Information

a commercial environment. This equipment in accordance with the instruction manual, may interference when the equipment is operated in digital device, pursuant to part 15 of the FCC 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 frequency energy and, if not installed and used generates, uses, and can radiate radio reasonable protection against harmful Rules. These limits are designed to provide tested and found to comply with the limits for a FCC compliance: This equipment has been

FCC Conditions

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

- 1. This device may not cause harmful
- 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 European This product and - if applicable - the

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



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

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



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

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

1 Introduction

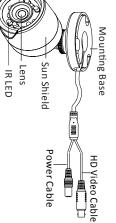
1.1 Product Features

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

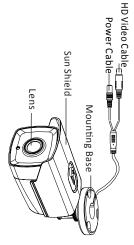
- image processing system. High performance CMOS sensor and high resolution bring high-quality image;
- Low illumination;
- OSD menu, parameters are configurable;
- Support auto white balance, auto gain control, electronic shutter control;
- Support image effect adjustment;
- Unit transmission control;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

1.2 Overview

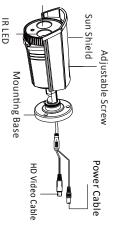
1.2.1 Overview of Type I Camera



1.2.2 Overview of Type | Camera



1.2.3 Overview of Type III Camera



2 Installation

- Please make sure that the device in the package are included. is in good condition and all the assembly parts
- 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.
- ullet If the wall is the cement wall, you need to insert expansion screws before you install the camera self-tapping screw to secure the camera. If the wall is the wooden wall, you can use
- 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 Ceiling Mounting for Type I Type II/Camera

Steps:

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



Figure 2-1 Drill Template

4. Fix the camera to the ceiling with the supplied 3. Route the cables to the cable hole and connect the corresponding power cable and video cable

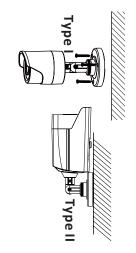


Figure 2-2 Fix the Camera to the Ceiling

- 5.Adjust the surveillance angle.
- 1).Loosen No.3 adjusting screw to adjust the panning position (0°~360°)
- 2). Tighten No. 3 adjusting screw.
- 3). Loosen the No.2 adjusting screw to adjust the tilting position (0 $^{\circ}$ $^{\circ}$ 90 $^{\circ}$).
- 4). Tighten No. 2 adjusting screw.
- 5).Loosen No.1 adjusting screw to adjust the azimuth angle of the image (0 $^{\circ}$ ~ 360 $^{\circ}$).
- 6). Tighten No. 1 adjusting screw.

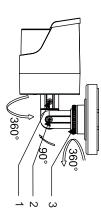


Figure 2-3 3-axis Adjustment

2.2 Wall Mounting for Type III Camera

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 2-4 Drill Template

4. Fix the camera to the ceiling with the supplied 3. Route the cables to the cable hole and connect the corresponding power cable and video cable.

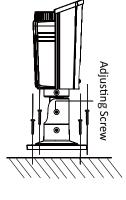


Figure 2-5 Fix the Camera to the Wall

- 5. Adjust the surveillance angle
- 1). Loosen No.3 adjusting screw to adjust the pan position(0° ~ 360°).
- Tighten No.3 adjusting screw.
 Loosen No.2 adjusting screw to adjust the tilting position($0^{\circ} \sim 90^{\circ}$)
- 4). Tighten No. 2 adjusting screw.
- 5). Loosen No.1 adjusting screw to adjust the rotation position($0^{\circ} \sim 360^{\circ}$).
- 6). Tighten No. 1 adjusting screw.

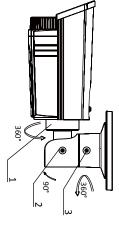


Figure 2-6 3-axis Adjustment

3 Menu Operation

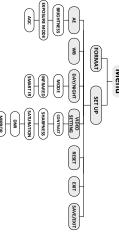


Figure 3-1 Main Menu



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

3.1 FORMAT

You can set the format as PAL/NTSC

3.2 SET UP

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

3.2.1 AE

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

Brightness:

Brightness refers to the brightness of the image

Exposure Mode:

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

	1.BRIGHTNESS 2.EXPOSURE MODE LEVEL 3.AGC 4.RETURN	EXPOSURE
	45 V 4BLC V 45 V 4 MIDDLE	
	•	
Figure 3-3 WB	MODE R GIAN B GAIN RETURN	WB
-3 WB	1- -10 1- -10	ω

Figure 3-2 EXPOSURE

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

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

> AWB: white balance is being adjusted automatically.

As shown in Figure 3-3. MWB: Set the R GAIN/B GAIN value from 1 to 10.

3.2.3 DAY & NIGHT

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

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

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

Figure 3-4 DAY/NIGHT

3.2.4 VIDEO SETTING

Contrast:

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

Sharpness

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

Saturation:

value is from 0 to 10.

You can set the saturation level of the image. The

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

Mirror:

0 to 7.

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

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