

### **1080P Dome Camera** User Manual HD-TVI

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

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

### Privacy Notice

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

camera parameters and functions Please refer to the product specification for

## **Regulatory Information**

### FCC Information

expense. 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 interference when the equipment is operated in reasonable protection against harmful digital device, pursuant to part 15 of the FCC tested and found to comply with the limits for a trequency energy and, if not installed and used Rules. These limits are designed to provide FCC compliance: This equipment has been

### FCC Conditions

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

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

## **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. standards listed under the Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC

cannot be disposed of as unsorted Products marked with this symbol 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 Union. For proper recycling, return municipal waste in the European

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

### This device meets the CAN ICES-3 (A)/NMB-3(A) Industry Canada ICES-003 Compliance

standards requirements.

## 1 Introduction

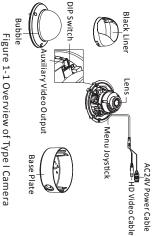
## **1.1 Product Features**

The main features are as follows: image processing system extremely suitable for supervisory system and resolution, low distortion, and low noise, etc. It is technology. It possesses the features of high high sensitivity and advanced circuit board design This camera adopts new generation sensor with

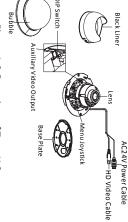
- High performance CMOS sensor and high resolution bring high-quality image;
- OSD menu, parameters are configurable; Low illumination;
- Support auto white balance, auto gain control, electronic shutter control and internal
- SMART IR mode; synchronization;
- 2.8-12mm motorized vari-focal lens;
- Advanced 3-axis design meets different installation requirements.

### 1.2 Overview

# 1.2.1 Overview of Type I Camera



1.2.2 Overview of Typell 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.
- with your power output to avoid damage.
- Please make sure the wall is strong enough to 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. and the mounting.
- If the product does not function properly. self-tapping screw to secure the camera. If the wall is the wooden wall, you can use service center. Do not disassemble the camera please contact your dealer or the nearest

for repair or maintenance by yourself.

## 2.1 Ceiling Mounting

### Steps:

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



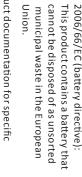
Figure 2-1 The Drill Template

camera /rotate the bubble of type2 camera to remove the bubble and the black liner. 2.Loosen the screws on the bubble of type 1

Type I:

Type II:

Figure 2-2 Remove the Bubble



more information see: www.recyclethis.info.

Figure 1-2 Overview of Type II Camera

3.Attach the back box of type 1 camera /base plate of type2 camera to the ceiling and secure them with supplied self-tapping screws. 4. Route the cables through the cable hole. 5.Align the camera with the back box/base plate, and tighten the set screws to secure the camera with the back box/base plate.

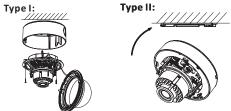


Figure 2-3 Fix the Camera to the Ceiling

6. Connect the corresponding cables.

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

8. Fit the black liner on the camera and tighten the screws on the bubble of type 1 camera or rotate the bubble of type 2 camera to complete.

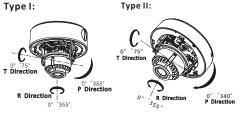


Figure 2-4 3-axis Adjustment

### 2.2 In-ceiling Mounting

### NOTE

You need to purchase an in-ceiling mount separately if you adopt in-celling mounting.

### Steps:

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

2.Screw the bolts through the mount by aligning with the 2 bolt holes. Fit the toggles onto the bolts. 3. Push the two toggle bolts through the two screw holes on the ceiling. Rotate the bolt till the toggle holds the ceiling tightly.

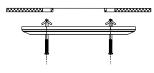
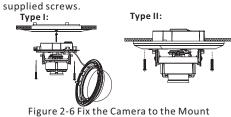


Figure 2-5 Install the Mount 4.Route and connect the corresponding cables.

5.Fix the camera to the in-ceiling mount with the



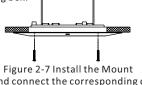
6. Repeat steps 6-8 of the Ceiling Mounting section to complete the installation.

### 2.3 In-ceiling Mounting with

### **Gang Box**

### NOTE

Only the type 1 camera supports in-ceiling mounting with gang box. 1.Repeat steps 2-4 of the In-ceiling Mounting section to secure the in-ceiling mount (supplied) to the gang box.



2.Route and connect the corresponding cables. 3. Align the camera with the gang box, and tighten the screws to secure the camera with the gang box..

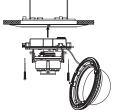


Figure 2-8 Fix the Camera to the Gang Box 4. Repeat steps 6-8 of the Ceiling Mounting section to complete the installation.

### **3 Menu Operation**

Press the menu button to enter the menu interface. When the menu interface is not displayed, you can press and hold any direction key of the joystick for 3s to enter the focusing interface. Move the joystick to adjust the camera lens by the FOCUS+, FOCUS-, ZOOM+ and ZOOM-.

### NOTE

After connecting the camera with back-end device, you can also control the camera with mouse in PTZ control mode. The direction keys works as the menu iovstick.

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After connecting the camera with back-end device, you can also control the camera with mouse in PTZ control mode. The direction keys works as the menu joystick.

### 3.1 Smart Focus

Press the menu button to enter the menu interface. When the menu interface is not displayed, you can press and hold any direction key of the joystick for 3s to enter the focusing interface. Move the joystick to adjust the camera lens by the FOCUS+, FOCUS-. ZOOM+ and ZOOM-.

### 3.2 VIDEO.OUT

You can set the frame rate as 25 fps/30fps.

### 3.3 DAY/NIGHT

Color, B/W, AUTO and EXT are selectable for DAY/ NIGHT switches. Under the mode of the AUTO and EXT, you can set the IR LED as Smart and CDS. If the IR LED is selected as Smart, you can set the brightness of the IR LED.

DAY/NIGHT		SPECIAL
1. MODE	AUTO	1. PRIVACY ZONE
2. D TO N	63	2. MOTION
3. N TO D	63	3. HLC
4. DELAY TIME	20	4. RETURN RET
5. RETURN	RET	

### Figure 3-2 DAY/NIGHT

### 3.4 AWB

Auto, User, Push, 8000k, 6000k, 4200k and 3000k are selectable for AWB. Under the mode of AUTO, you need to set the R-G/B-G Gain and to select an indoor/ mode is select as User Gain manually.

Figure 3-4 SPECIAL

### 3.5 AE

You can set the AE mode as HOLD, DC and ESC. **Brightness**: Brightness refers to the brightness

Shutter: Shutter denotes the speed of the shutter. You can set the shutter as AUTO, 1/25, 1/30, 1/50, 1/10k.

Flicker: You can set the flicker status as 50HZ/60HZ to prevent image flicking.

**BLC**: BLC bases on the back area to enhance the brightness of the whole image. You can set the BLC gain from 0 to 16.

AGC: AGC optimizes the clarity of image in poor light scene. The value of AGC can be set from 1-5. **LSC**: LSC corrects the phenomenon where the image gets darkened or blurred on the periphery.

AWB				
1. MODE 2. R-G GAIN 3. B-G GAIN 4. RETURN	AUTO 255 151 RET			

Figure 3-3 AWB

### 3.6 SPECIAL

Privacy zone: Select a PRIVACY area. Set the MASK PAT as OFF, GRAY, WHITE or BLACK. Set the SX/EX/SY/EY value to define the position and size of the area.

Motion: Set the Motion status as ON or OFF. Set the SENSITIVITY from 0 to 255. Set the alarm status as ICON/TRANCE/OFF. Set the hold time from 0 second to 255 seconds.

HLC: HLC supplements the brightness of the peripheral area of the image. You can set the mask value and threshold from 0 to 255.

### 3.7 EFFECT

Color Gain: Color gain adjust this feature to change the saturation of the color. You can set the value from 0 to 255.

**Color Hue**: You can adjust the image HUE from 0 to 71.

Sharpness: Sharpness determines the amount of detail that an imaging system can reproduce. You can set the value from 0 to 255. Contrast: Contrast enhances the difference in

color and light between parts of an image. You can set the value from 0 to 255. Bright Off.: Bright Off. refers to the brightness compensation of the image. You can set the bright

compensation value as 0 or 1. **Mirror**: You can set the Mirror status as ON/OFF.

Flip: You can set the FLIP status as ON/OFF.

EFFECT			
L. COLOR GAIN 2. COLOR HUE 8. SHARPNESS 6. CONTRAST 5. BRIGHT OFF. 5. MIRROR 7. FLIP 8. RETURN	200 200 25 150 1 ON ON RET	SYSTEN 1. CAMERA ID 2. ID DISP. 3. NAME DISP. 4. LANGUAGE 5. FACTORY INIT 6. RETURN	A 255 ON ON ENG OFF RET

Figure 3-5 EFFECT

Figure 3-6 SYSTEM

**3.8 SYSTEM** 

You can set the camera ID from 0 to 255. Select the ID display and name display status as ON/OFF.

Chinese and English are selectable for the language of the menu.

You can restore the camera to the default by setting the factory initialization status as ON.

### 3.9 EXIT

Exit and Save & exit are selectable.

/outdoor mode. If the AWB
, You need to set the R/G/B

of the image.

1/60, 1/100, 1/120, 1/250, 1/500, 1/1k, 1/3k and