

### HD-TVIDome Camera User Manual

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

manual content is subject to change without notice. incorrect places or printing errors, and the 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

Please refer to the product specification for

camera parameters and functions.

# **Regulatory Information**

### FCC Information

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

### FCC Conditions

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 interference.
- cause undesired operation. received, including interference that may

# EU Conformity Statement

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

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

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

or dispose of it at designated collection points. For more information see: www.recyclethis.info upon the purchase of equivalent new equipment 2006/66/EC (battery directive):This product contains a battery that cannot this product to your local supplier

be disposed of as unsorted municipal

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

## 1 Introduction

## **1.1 Product Features**

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

•Support auto white balance, auto gain control, OSD menu, parameters are configurable; Low illumination;

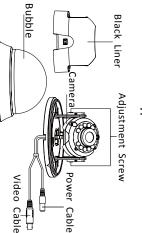
Support image effect adjustment;

Unit transmission control;

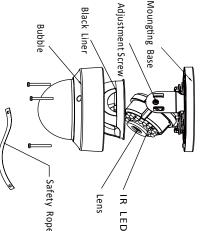
 Advanced 3-axis design meets different installation requirements.

### 1.2 Overview

# 1.2.1 Overview of Type I Camera



# 1.2.2 Overview of Type || Camera



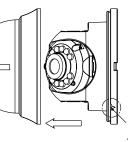
## 2 Installation

### Before you start:

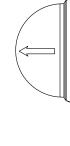
- Please make sure that the device in the package is in good condition and all the assembly parts
- Make sure that all the related equipment is are included.
- Check the specification of the products for the power-off during the installation.
- Check whether the power supply is matched installation environment.
- Please make sure the wall is strong enough to with your power output to avoid damage.
- 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 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 tor repair or maintenance by yourselt.

# 2.1 Installation of Type I Camera

and the black liner 1.Pry the snap joint up to remove the bubble snap Joint

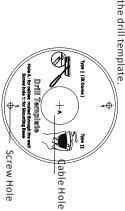


<sup>=</sup>igure 2-1 Remove the Bubble



2.Drill the screw holes and cable hole according to

Figure 2-2 The Drill Template



### 3.Align the base plate with the mounting template and secure it with supplied self-tapping screws.

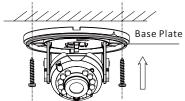


Figure 2-3 Fix the Camera to the Ceiling 4. Route the cables through the cable hole. 5. Connect the corresponding cables. 6. Adjust the camera according to the figure below to get an optimum angle.

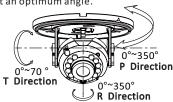
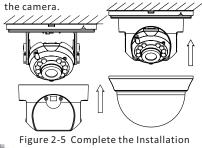


Figure 2-4 3-axis Adjustment

8. Push the black liner and bubble toward the camera and buckle them upon to secure them on



### NOTE

Rotate the bubble after completing the Installation may change the postion of the lens.

### 2.2 Installation of Type II Camera

1.Loosen the screws on the bubble to remove the bubble and the black liner.



Figure 2-6 Remove the Bubble

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

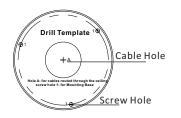


Figure 2-7 Drill Template 3.Align the base plate with the mounting template and secure it with supplied self-tapping screws.



Figure 2-8 Fix the Camera to the Ceiling

4. Route the cables through the cable hole.

5. Connect the corresponding cables.

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



0°~360° T Direction -15°~15° R Direction Adjustment Screw

Figure 2-9 3-axis Adjustment 8. Fit the black liner and bubble on the camera.



Figure 2-10 Complete the Installation

### 3 Menu Operation

		IVIe	nu			
VIEC. OUT ANTE AATE AATE COLOR AATE CUT CUT	AWB AUTO USER HOLD 5000K 6080K 4200K		SPECIAL PRIVACY ZONE MOTION HLC	COLOR GAIN COLOR HUE SHARPNESS CONTRAST BRIGHT MIRROR	SYSTEM CAMERA ID ID DISP ID DISP UAME UANGUAGE FACTORY INT	EXIT
	3200K PUSH			MIRROR FLIP		
	Figur	e 3-1 N	/ain M	enu		

### NOTE

A coaxial camera controller (purchase separately) is required to select the menu and adjust the camera parameters.

### 3.1 VIDEO.OUT

You can set the frame rate as 25 fps/30fps. 3.2 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	AWB
1. MODE AUTO   2. D TO N 63   3. N TO D 63   4. DELAY TIME 20   5. RETURN RET	1. MODE AUTO   2. R-G GAIN 255   3. B-G GAIN 151   4. RETURN RET

Figure 3-2 DAY/NIGHT Figure 3-3 AWB

### 3.3.3 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/outdoor mode. If the AWB mode is select as User, You need to set the R/G/B Gain manually.

### 3.3.4 AE

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

**Shutter**: Shutter denotes the speed of the shutter. You can set the shutter as AUTO, 1/25, 1/30, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1k, 1/3k and 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.

### 3.3.5 SPECIAL

	SPE	CIAL	
	1. PRIVACY	ZONE	
	2. MOTION		
	3. HLC		
	4. RETURN	RET	
l			

### Figure 3-4 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.

### 3.3.6 EFFECT

EFFE	СТ
1. COLOR GAIN 2. COLOR HUE	
3. SHARPNESS	200 25
4. CONTRAST 5. BRIGHT OFF.	150 . 1
6. MIRROR 7. FLIP	ON ON
8. RETURN	RET

Figure 3-5 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.

### 3.3.7 SYSTEM

SYSTE	м
1. CAMERA ID	255
2. ID DISP.	ON
3. NAME DISP.	ON
4. LANGUAGE	ENG
5. FACTORY INIT	OFF
6. RETURN	RET

### Figure 3-6 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.

### 3.3.8 EXIT

Exit and Save & exit are selectable.