HD-TVI Dome Camera
User Manual

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

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.

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

Regulatory Information
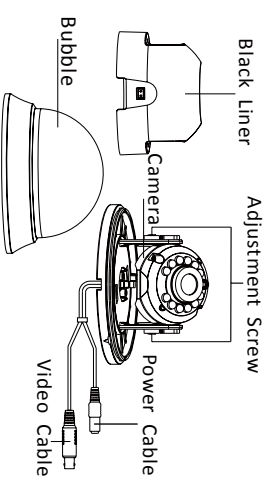
1 Introduction

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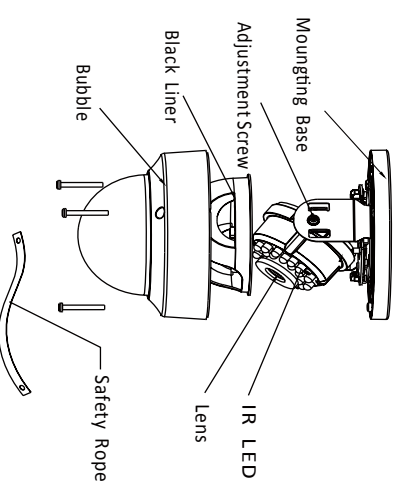
●High performance CMOS sensor and high resolution bring high-quality image;
●Low illumination;
●OSD menu, parameters are configurable;
●Support auto white balance, auto gain control,
●Support image effect adjustment;
●Unit transmission control;
●Advanced 3-axis design meets different installation requirements.

1.2 Overview

1.2.1 Overview of Type I Camera

1.2.2 Overview of Type 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 Installation of Type I Camera

Steps:

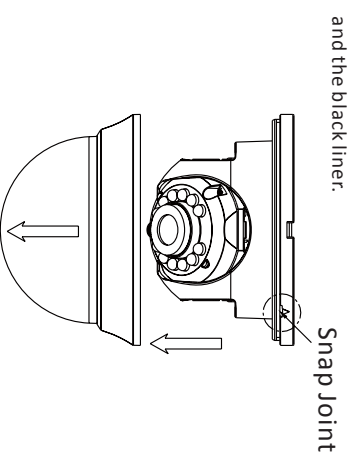1. Pry the snap joint up to remove the bubble and the black liner.

Figure 2-1 Remove the Bubble

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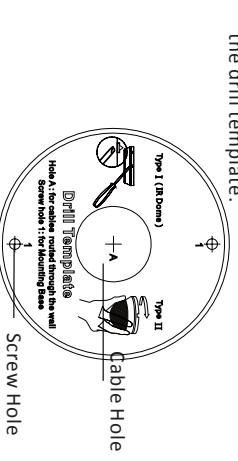

Figure 2-2 The Drill Template

3.Align the base plate with the mounting template and secure it with supplied self-tapping screws.
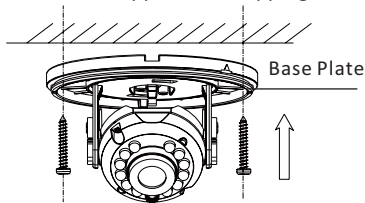
Figure 2-3 Fix the Camera to the Ceiling

4. Route the cables through the cable hole.
5. Connect the corresponding cables.
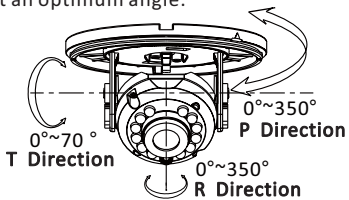6. Adjust the camera according to the figure below to get an optimum angle.

Figure 2-4 3-axis Adjustment

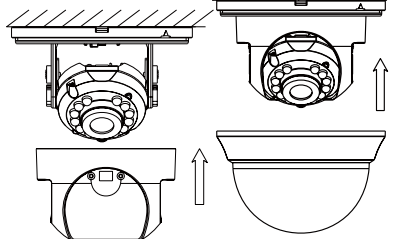8. Push the black liner and bubble toward the camera and buckle them upon to secure them on the camera.

Figure 2-5 Complete the Installation

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

2.2 Installation of Type II Camera

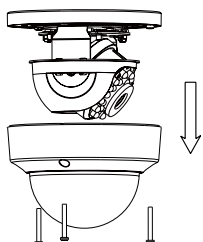1.Loosen the screws on the bubble to remove the bubble and the black liner.

Figure 2-6 Remove the Bubble

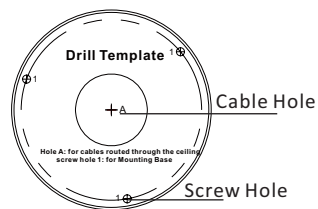2.Drill the screw holes and cable hole on the ceiling according to the supplied drill template.

Figure 2-7 Drill Template

3.Align the base plate with the mounting template and secure it with supplied self-tapping screws.
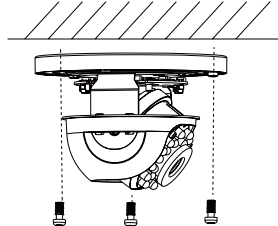
Figure 2-8 Fix the Camera to the Ceiling

4. Route the cables through the cable hole.
5. Connect the corresponding cables.
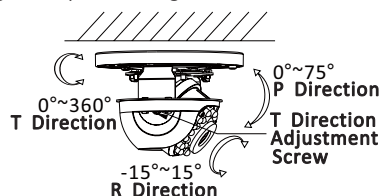6. Adjust the camera according to the figure below to get an optimum angle.

Figure 2-9 3-axis Adjustment

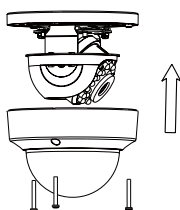8. Fit the black liner and bubble on the camera.
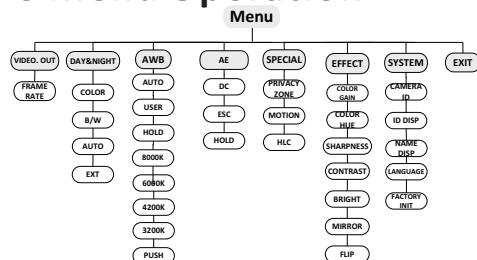
Figure 2-10 Complete the Installation

3 Menu Operation

Figure 3-1 Main Menu

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.

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

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

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

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.