

TURBOHD 1080P 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.

DISCLAIMER STATEMENT

Underwriters Laboratories Inc. ("UL") has not tested the performance or reliability of the security or signaling aspects of this product. UL has only tested for fire, shock or casualty hazards as outlined in Ul's Standard(s) for Safety, UL60950-1. UL Certification does not cover the performance or reliability of the security or signaling aspects of this product. UL MAKES NO **REPRESENTATIONS, WARRANTIES OR** CERTIFICATIONS WHATSOEVER REGARDING 0100001041016

THE PERFORMANCE OR RELIABILITY OF ANY SECURITY OR SIGNALING RELATED FUNCTIONS OF THIS PRODUCT.

Regulatory Information

FCC Information

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

FCC Conditions

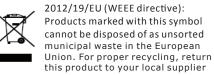
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

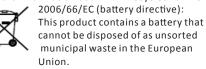
EU Conformity Statement

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive

2006/95/EC, the EMC Directive 2004/108/EC, the RoHS Directive 2011/65/EU.



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



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

1 Introduction

1.1 Product Features

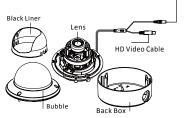
This camera adopts new generation sensor with high sensitivity and advanced circuit board design technology. It possesses the features of high resolution, low distortion, and low noise, etc. It is extremely suitable for supervisory system and image processing system.

The main features are as follows:

- •High performance CMOS sensor and high resolution bring high-quality image;
- •Low illumination;
- Support IR cut filter with auto switch;
- •OSD menu, parameters are configurable;
- •Support auto white balance, auto gain control, electronic shutter control and internal synchronization;
- •SMART IR mode;
- •Unit transmission control;
- Advanced 3-axis design meets different installation requirements.

1.2 Overview

1.2.1 Overview of Type I Dome Camera



Power Cable

Figure 1-1 Overview of Type I Dome Camera

1.2.2 Overview of Type || Dome Camera

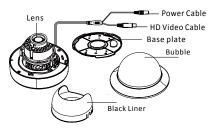


Figure 1-2 Overview of Type II Dome Camera

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 Ceiling Mounting Steps:

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

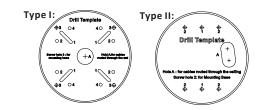
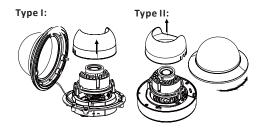
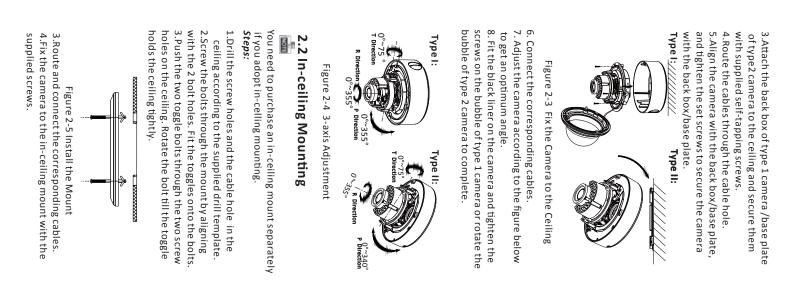
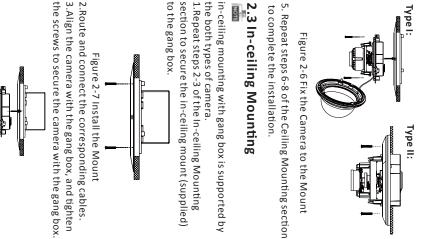


Figure 2-1 The Drill Template

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



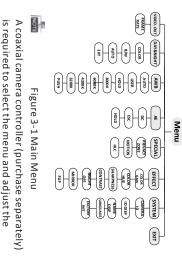






4. Repeat steps 6-8 of the Ceiling Mounting section to complete the installation Figure 2-8 Fix the Camera to the Gang Box

3 Menu Operation



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/

ness of the IR LED. NIGHT switches. Under the mode of the AUTO and IR LED is selected as Smart, you can set the bright-EXT, you can set the IR LED as Smart and CDS. If the

	5. RETURN	4. DELAY TIME	3. N TO D	2. D TO N	1. MODE	DAY/NIGHT	
	RET	20	63	63	AUTO	ЭНТ	
!		4. RETURN	3. B-G GAIN	2. R-G GAIN	1. MODE	AWB	
		RET	151	255	AUTO	ſΒ	

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

3.3.3 AWB

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

3.3.4 AE

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

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

Flicker: You can set the flicker status as 50HZ/60HZ to prevent image flicking 1/10k.

brightness of the whole image. You can set the BLC: BLC bases on the back area to enhance the

BLC gain from 0 to 16. AGC: AGC optimizes the clarity of image in poor

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

3.3.5 SPECIAL

SPECIAL CY ZONE NN RET

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

Figure 3-4 SPECIAL

of the area

camera parameters.

peripheral area of the image. You can set the mask as ICON/TRANCE/OFF. Set the hold time from the SENSITIVITY from 0 to 255. Set the alarm status Motion: Set the Motion status as ON or OFF. Set value and threshold from 0 to 255. 0 second to 255 seconds HLC: HLC supplements the brightness of the

3.3.6 EFFECT

8. RETURN	7. FLIP	6. MIRROR	5. BRIGHT OFF.	4. CONTRAST	3. SHARPNESS	2. COLOR HUE	1. COLOR GAIN		EFFECT
RET	NO	Q	1	150	25	200	200		-
		FLIP RETURN	MIRROR FLIP RETURN	BRIGHT OFF. MIRROR FLIP RETURN	CONTRAST BRIGHT OFF. MIRROR FLIP RETURN	SHARPNESS CONTRAST BRIGHT OFF. MIRROR FLIP FLIP RETURN	COLOR HUE SHARPNESS CONTRAST BRIGHT OFF. BRIGHT OFF. MIRROR FLIP FLIP RETURN	COLOR GAIN COLOR HUE SHARPNESS CONTRAST BRIGHT OFF. MIRROR FLIP FLIP RETURN	COLOR GAIN COLOR HUE SHARPNESS CONTRAST BRIGHT OFF. MIRROR FLIP FLIP RETURN

Figure 3-5 EFFECT

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

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

compensation of the image. You can set the bright Bright Off. : Bright Off. refers to the brightness **Contrast:** Contrast enhances the difference in detail that an imaging system can reproduce. Sharpness: Sharpness determines the amount of Flip: You can set the FLIP status as ON/OFF. Mirror: You can set the Mirror status as ON/OFF. compensation value as 0 or 1. You can set the value from 0 to 255. color and light between parts of an image. You can set the value from 0 to 255

3.3.7 SYSTEM

6. RETURN	5. FACTORY INIT	4. LANGUAGE	NAME DISP.	2. ID DISP.	1. CAMERA ID	SYSTEM	
RET	OFF	ENG	N	NO	255		

Figure 3-6 SYSTEM

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

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