This series of camera adopts new generation regulatory information.

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. 2012/19/EU (battery directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.

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, electronic shutter control;
- SMART IR mode;
- 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

1.2.3 Overview of Type III 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 for Type I 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.

![Drill Template](image-url)
3. Route the cables to the cable hole and connect the corresponding power cable and video cable. 4. Fix the camera to the ceiling with the supplied screws.

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° ~ 90°).
   4) Tighten No. 2 adjusting screw.
   5) Loosen No. 1 adjusting screw to adjust the azimuth angle of the image (0° ~ 360°).
   6) Tighten No. 1 adjusting screw.

### 2.2 Wall Mounting for Type II/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.

#### 3 Menu Operation

**Steps:**
1. Drillin the screw holes in the ceiling according to the supplied drill template.
2. Hammer the supplied plastic expansion bolt into the screw holes.

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

**Cameras with a 720p resolution of these three types do not support menu operation.**

3.1 VIDEO.OUT
PAL or NTSC is selectable.

3.2 LANGUAGE
English, Japanese, CHN1, CHN2, Korean, German, French, Italian, Spanish, Polish, etc., are selectable.

3.3 SETUP

3.3.1 SCENE
You can select indoor, outdoor, indoor 1 and low-light as the working environments.

3.3.2 LENS
You can select indoor, outdoor, indoor 1 and low-light as the working environments.

3.3.3 EXPOSURE
- SHUTTER: AUTO, 1/25, 1/50, FLK, 1/200, 1/400, 1/1k, 1/2k, 1/5k, 1/10k, FLK, x2, x4, x6, x8, x10, and x15 are selectable.
- SENS-UP: You can set the SENS-UP to OFF or AUTO.
- BRIGHTNESS: You can set the brightness value from 1 to 100.
- DEFUG: You can set the defog function as ON to enable the function. Position, size, and the defoggradation are configurable.

3.3.4 BACKLIGHT
Backlight Compensation (BLC):
- GAIN: Set the gain of BLC as High, Middle, or Low.
- AREA: Press the up/down/left/right button to define the BLC position and size. Select RET or AGAIN to go back to the BLC menu or re-define the BLC area.
- DEFAULT: Restore the BLC settings to the default.

3.3.5 WHITE BALANCE (WB)
INDOOR, OUTDOOR, MANUAL, ATW (Auto-tracking White Balance), AWC → SET are selectable.

3.3.6 DAY & NIGHT
Color, B/W, and EXT are selectable for DAY and NIGHT switches.

3.3.7 NR
2D NR: You can set 2D NR status as ON or OFF.
3D NR: Set the Smart NR status as ON and adjust the 3D smart NR sensitivity ranges from 0 to 100. Set the 3D NR LEVEL ranges from 0 to 100.

3.3.8 SPECIAL
Camera Title: Edit the camera title on this section.
- D-EFFECT:
- MIRROR:
  - OFF, MIRROR, V-FLIP, and ROTATE are selectable for mirror.
- D-ZOOM:
  - Define the zoom area by configuring the position from PAN & TILT.
- SMART D-ZOOM:
  - Enable the function. Position, size, and the defoggradation are configurable.

3.3.9 ADJUST
Sharpness: Adjust the sharpness from 0 to 15.

3.3.10 RESET
Reset all the settings to the default.

3.3.11 EXIT
Press OK to exit the menu.

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**Figure 2-2 Fix the Camera to the Ceiling**

**Figure 2-5 Fix the Camera to the Wall**

**Figure 2-6 3-axis Adjustment**

**Figure 3-1 Main Menu**

**Figure 3-2 Exposure**

**Figure 3-3 HSBLBC**

**Figure 3-4 Drill Template**

**Figure 3-5 NR**

**Figure 3-6 3D NR**

**Figure 3-7 Special**

**Figure 3-8 Motion Detection**

**Figure 3-9 Privacy Mask**

**Figure 3-10 Adjust**