This series of camera adopts new generation sensor with high sensitivity and advanced circuit design technology. It features high resolution, low illumination, 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 Introduction

1.1 Product Features

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- 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 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.

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.

Figure 2-1 Drill Template

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, 2006/66/EC (battery directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union.

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.recylethis.info.
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.

Figure 2-2 Fix the Camera to the Ceiling

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.

Figure 2-3 3-axis Adjustment

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.

Figure 2-4 Drill Template

3 Menu Operation

Steps:
1. Select an HSBLC area. Set the DISPLAY status as ON. Press the up/down/left/right button to define the area position and size. Set the SENSITIVITY from 0 to 60. Set the MOTION VIEW status as ON or OFF.
2. Privacy: Select a PRIVACY area. Set the DISPLAY status as INV, MOSAIC, COLOR or OFF. Press the up/down/left/right button to define the position and size of the area.
3. Defect: LIVE DPC, STATIC DPC and Black DPC are adjustable in this section.
4. Version: You can check the software version of the device.

Figure 3-1 Main Menu

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
PAL or NTSC is selectable.

Figure 2-5 Fix the Camera to the Wall

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 the BLC menu or re-define the BLC area.
- Default: Restore the BLC settings to the default.

Figure 2-6 3-axis Adjustment

HSBLC: Select an HSBLC area. Set the DISPLAY status as ON. Press the up/down/left/right button to define the area position and size. Set the SENSITIVITY from 0 to 100. Select ALL DAY or Night for the HSBLC mode. Set the BLACK MASK status as ON or OFF.

Figure 3-2 Exposure

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

Figure 3-3 HSBLC

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

Figure 3-4 Privacy Mask

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. Set the

Figure 3-5 NR

3.3.8 SPECIAL

Camera Title: Edit the camera title on this section.

D-effect:
- FREEZE: Set the freeze function as ON or OFF.
- MIRROR: Set the DEFECT function as ON or OFF.
- SMART D-ZOOM: Set the SMART D-ZOOM as ON or OFF.

Motion: Select a MOTION area. Set the DISPLAY status as ON or OFF. Press the up/down/left/right button to define the position and size of the area.

Privacy: Select a PRIVACY area. Set the DISPLAY status as INV, MOSAIC, COLOR or OFF. Press the up/down/left/right button to define the position and size of the area.

Figure 3-6 3D NR

3.3.9 ADJUST
Sharpness: Adjust the sharpness from 0 to 15.
Monitor: Monitor CRT, and Monitor LCD are selectable.
LSC: Set the LSC status as ON or OFF.

Figure 3-7 Special Figure 3-8 Motion Detection

3.3.10 RESET
Reset all the settings to the default.

Figure 3-9 Privacy Mask

3.3.11 EXIT
Press OK to exit the menu.