



4. Route the cables to the cable hole and connect the corresponding cables.
5. Install the main body onto the mounting plate and insert the clip plate.
6. Tighten the screws with the wrench.

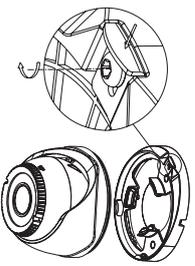


Figure 2-3 Install the Turret Camera

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

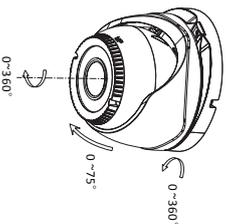


Figure 2-4 3-axis Adjustment

## 2.2 Installation of Type II Camera



Both wall mounting and ceiling mounting are suitable for Type II bullet camera. Ceiling mounting will be taken as an example in the section. And you can take steps of ceiling mounting as a reference if wall mounting is adopted.

### 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.

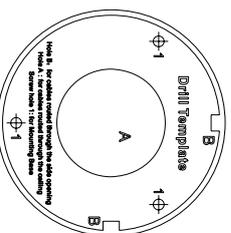


Figure 2-5 Drill Template

3. Route the cables to the cable hole and connect the corresponding cables.
4. Fix the camera to the ceiling with the supplied screws.

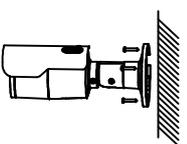


Figure 2-6 Fix the Camera to the Ceiling

5. Adjust the surveillance angle.
- 1). Loosen No.1 adjusting screw to adjust the pan position (0° ~ 360°).
- 2). Tighten No.1 adjusting screw.
- 3). Loosen No.2 adjusting screw to adjust the tilting position (0° ~ 90°).
- 4). Tighten No.2 adjusting screw.
- 5). Loosen No.3 adjusting screw to adjust the rotation position (0° ~ 360°).
- 6). Tighten No.3 adjusting screw.



Figure 2-7 3-axis Adjustment

6. Push the focus & zoom adjustment cover upward to move it aside and rotate the OSD cover to open it.
7. Use the cover as a screwdriver to adjust the ZOOM screw and the FOCUS screw until you get the optimum image.

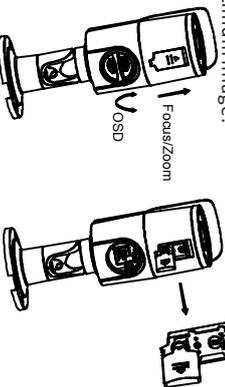


Figure 2-9 Zoom and Focus Adjustment

## 3 Menu Operation

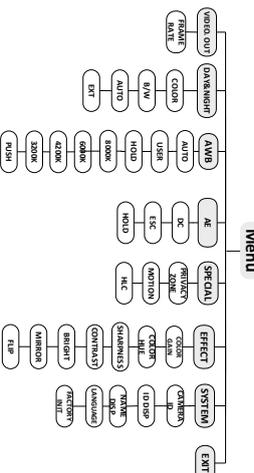


Figure 3-1 Main Menu

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

After connecting the camera with back-end device, you can also control the camera with mouse in PTZ control mode. The direction keys works as the menu joystick.

### 3.1 Smart Focus

Press the menu button to enter the menu interface. When the menu interface is not displayed, you can press and hold any direction key of the joystick for 3S to enter the focusing interface. Move the joystick to adjust the camera lens by the FOCUS+, FOCUS-, ZOOM+ and ZOOM-.

### 3.2 VIDEO OUT

You can set the frame rate as 25 fps/30fps.

### 3.3 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	AUTO
1. MODE	63
2. D.TON	20
3. N.TOD	63
4. DELAY TIME	20
5. RETURN	RET

SPECIAL	ZONE
1. PRIVACY	RET
2. MOTION	RET
3. HLC	RET
4. RETURN	RET

### Figure 3-2 DAY/NIGHT

Figure 3-4 SPECIAL

### 3.4 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 selected as User, You need to set the R/G/B Gain manually.

### 3.5 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.

AWB	AUTO
1. MODE	255
2. R-G GAIN	151
3. B-G GAIN	151
4. RETURN	RET

Figure 3-3 AWB

### 3.6 SPECIAL

**Privacy zone:** Select a PRIVACY area. Set the MASK PAT as OFF, GRAY, WHITE or BLACK. Set the S/X/E/S/V/EV 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.

### 3.7 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.

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

Figure 3-5 EFFECT

SYSTEM	RET
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

### 3.8 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.

### 3.9 EXIT

Exit and Save & exit are selectable.