



- Attach the back box of type 1 camera /base plate of type2 camera to the ceiling and secure them with supplied self-tapping screws.
- Route the cables through the cable hole.
- Align the camera with the back box/base plate, and tighten the set screws to secure the camera with the back box/base plate.

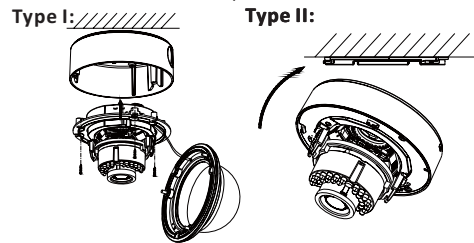


Figure 2-3 Fix the Camera to the Ceiling

- Connect the corresponding cables.
- Adjust the camera according to the figure below to get an optimum angle.
- Fit the black liner on the camera and tighten the screws on the bubble of type 1 camera or rotate the bubble of type 2 camera to complete.

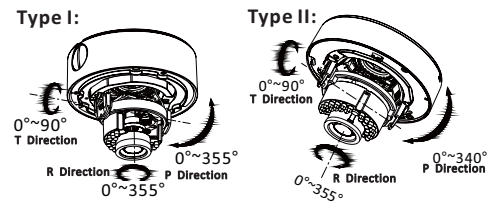


Figure 2-4 Zoom and Focus Adjustment

## 2.2 In-ceiling Mounting

You need to purchase an in-ceiling mount separately if you adopt in-ceiling mounting.

### Steps:

- Drill the screw holes and the cable hole in the ceiling according to the supplied drill template.
- Screw the bolts through the mount by aligning with the 2 bolt holes. Fit the toggles onto the bolts.
- Push the two toggle bolts through the two screw holes on the ceiling. Rotate the bolt till the toggle holds the ceiling tightly.

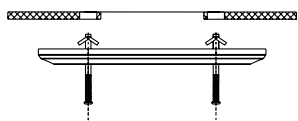


Figure 2-5 Install the Mount

- Route and connect the corresponding cables.
- Fix the camera to the in-ceiling mount with the supplied screws.

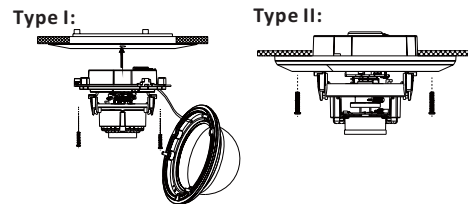


Figure 2-6 Fix the Camera to the Mount

- Repeat steps 6-8 of the Ceiling Mounting section to complete the installation.

## 2.3 In-ceiling Mounting with Gang Box



Only the type 1 camera supports in-ceiling mounting with gang box.

- Repeat steps 2-3 of the In-ceiling Mounting section to secure the in-ceiling mount (supplied) to the gang box.

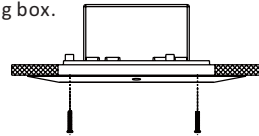


Figure 2-7 Install the Mount

- Route and connect the corresponding cables.
- Align the camera with the gang box, and tighten the screws to secure the camera with the gang box..

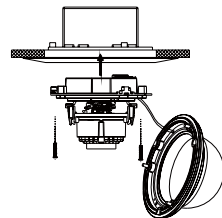


Figure 2-8 Fix the Camera to the Gang Box

- Repeat steps 6-8 of the Ceiling Mounting section to complete the installation.

## 3 Menu Operation

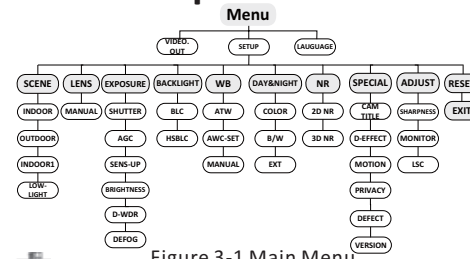


Figure 3-1 Main Menu

You can call the menu and adjust the camera parameters with a coaxial camera controller (purchase separately). You can also call the menu with supported TVI DVR.

### 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.

### 3.3SETUP

#### 3.3.1 SCENE

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

#### 3.3.2 LENS

The camera is equipped with a fixed lens.

#### 3.3.3 EXPOSURE

**SHUTTER:** AUTO, 1/25, 1/50, FLK, 1/200, 1/400, 1/1k, 1/2k, 1/5k, 1/10k, 1/50k, x2, x4, x6, x8, x10, and x15 are selectable.

**AGC:** You can set the AGC value from 0 to 15.

**SENS-UP:** You can set the SENS-UP to OFF or AUTO.

**BRIGHTNESS:** You can set the brightness value from 1 to 100.

**DEFOG:** You can set the defog function as ON to enable the function. Position, size, and the defog gradation are configurable.

**D-WDR:** You can set the D-WDR as ON or OFF.

EXPOSURE	
1. SHUTTER	AUTO
2. AGC	OFF
3. SENS-UP	---
4. BRIGHTNESS	--- ----- 40
5. DEFOG	OFF
6. D-WDR	OFF
7. RETURN	RET

Figure 3-2 Exposure

HSBLC	
1. SELECT	AREA 1
2. DISPLAY	ON ↕
3. LEVEL	--- ----- 40
4. MODE	ALL DAY
5. BLACK MASK	ON
6. DEFAULT	↕
7. RETURN	RET

Figure 3-3 HSBLC

#### 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.

**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 HSBLC LEVEL from 0 to 100. Select ALL DAY or Night for the HSBLC mode. Set the BLACK MASK status as ON or OFF.

#### 3.3.5 White Balance (WB)

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. Set the

START. AGC level as the threshold to enable AGC, and set the END. AGC level as the threshold to disable AGC.

2D&3D NR	
1. 2DNR	OFF
2. 3DNR	ON ↕
3. RETURN	RET

Figure 3-4 NR

3D NR	
1. SMART NR	ON ↕
2. LEVEL	----- ----- 80
3. START. AGC	- ----- 10
4. END. AGC	- ----- 10
5. RETURN	RET

Figure 3-5 3D 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:** 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:** The D-Zoom area, sensitivity and time are configurable.

**-NEG.IMAGE:** Set the NEG IMAGE as ON or OFF.

SPECIAL	
1. CAM TITLE	ON ↕
2. D-EFFECT	ON ↕
3. MOTION	OFF
4. PRIVACY	OFF
5. LANGUAGE	ENG ↕
6. DEFECT	↕
7. RETURN	RET

MOTION	
1. SELECT	AREA 1
2. DISPLAY	ON ↕
3. SENSITIVITY	----- ----- 30
4. MOTION VIEW	ON
5. DEFAULT	↕
6. RETURN	RET

Figure 3-6 Special Figure 3-7 Motion Detection

**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. Set the SENSITIVITY from 0 to 60. Set the MOTION VIEW status as ON or OFF.

**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.

**Defect:** LIVE DPC, STATIC DPC and Black DPC are adjustable in this section.

PRIVACY	
1. SELECT	AREA 1
2. DISPLAY	MOSAIC ↕
3. COLOR	10
4. TRANS.	1
5. DEFAULT	↕
6. RETURN	RET

Figure 3-8 Privacy Mask

ADJUST	
1. SHARPNESS	----- ----- 15
2. MONITOR	LCD ↕
3. LSC	OFF
4. RETURN	RET

Figure 3-9 Adjust

#### 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.

#### 3.3.10 RESET

Reset all the settings to the default.

#### 3.3.11 EXIT

Press OK to exit the menu.