D0T POC (C) Series Bullet & Turret Camera

User Manual

User Manual
Thank you for purchasing our product. If there are any questions, or requests, do not hesitate to contact the dealer.
This manual applies to the models below:

Type	Model
Type I Camera	DS-2CE16D0T-ITE(C)
	DS-2CE17D0T-IT3E(C)
Type II Camera	DS-2CE19D0T-VFIT3E(C)
Type III Camera	DS-2CE79D0T-VFIT3E(C)
Type IV Camera	DS-2CE56D0T-IT3E(C)

This manual may contain several technical mistakes 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.

01000020230306

Initiatives on the Use of Video Products

Thank you for choosing Hikvision products.

Technology affects every aspect of our life. As a high-tech company, we are increasingly aware of the role technology plays in improving business efficiency and quality of life, but at the same time, the potential harm of its improper usage. For example, video products are capable of recording real, complete and clear images. This provides a high value in retrospect and preserving real-time facts. However, it may also result in the infringement of a third party's legitimate rights and interests if improper distribution, use and/or processing of video data takes place. With the philosophy of "Technology for the Good", Hikvision requests that every end user of video technology and video products shall comply with all the applicable laws and regulations, as well as ethical customs, aiming to jointly create a better community.

Please read the following initiatives carefully:

1. Everyone has a reasonable expectation of privacy, and the installation of video products should not be in conflict with this reasonable expectation. Therefore, a warning notice shall be given in a reasonable and effective manner and clarify the monitoring range, when installing video products in public areas. For non-public areas, a third party's rights and interests shall be evaluated when installing video products, including but not limited to, installing video products only after obtaining the consent of the stakeholders, and not installing highly-invisible video products.

2. The purpose of video products is to record real activities within a specific time and space and under specific conditions. Therefore, every user shall first reasonably define his/her own rights in such specific scope, in order to avoid infringing on a third party's portraits, privacy or other legitimate rights.

3. During the use of video products, video image data derived from real scenes will continue to be generated, including a large amount of biological data (such as facial images), and the data could be further applied or reprocessed. Video products themselves could not distinguish good from bad regarding how to use the data based solely on the images captured by the video products. The result of data usage depends on the method and purpose of use of the data controllers. Therefore, data controllers shall not only comply with all the applicable laws and regulations and other normative requirements, but also respect international norms, social morality, good morals, common practices and other non-mandatory requirements, and respect individual privacy, portrait and other rights and interests.

4. The rights, values and other demands of various stakeholders should always be considered when processing video data that is continuously generated by video products. In this regard, product security and data security are extremely crucial. Therefore, every end user and data controller, shall undertake all reasonable and necessary measures to ensure data security and avoid data leakage, improper disclosure and improper use, including but not limited to, setting up access control, selecting a suitable network environment (the Internet or Intranet) where video products are connected,

establishing and constantly optimizing network security.

Video products have made great contributions to the improvement of social security around the world, and we believe that these products will also play an active role in more aspects of social life. Any abuse of video products in violation of human rights or leading to criminal activities are contrary to the original intent of technological innovation and product development. Therefore, each user shall establish an evaluation and tracking mechanism of their product application to ensure that every product is used in a proper and reasonable manner and with good faith.

About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the Hikvision website (https://www.hikvision.com/).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

Trademarks

HIKVISION and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions.

Other trademarks and logos mentioned are the properties of their respective owners.

Disclaimer

CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.

IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATTER PREVAILS.

Regulatory Information

EU Compliance Statement

CE 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 Directive 2014/30/EU (EMCD) and Directive 2011/65/EU (RoHS).

Note: The products with the input voltage of within 50 to 1000 VAC or 75 to 1500 VDC comply with Directive 2014/35/EU (LVD), and the rest products comply with Directive 2001/95/EC (GPSD). Please check the specific power supply information for reference.

Directive 2012/19/EU (WEEE 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.

Directive 2006/66/EC and its amendment 2013/56/EU (Battery Directive): This product contains a battery that 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.recyclethis.info.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

KC

A급 기기: 이 기기는 업무용(A급) 전자파적합기기로써 판매자 또는 사용자는 이 점을 주의하시기바라며, 가정 외의 지역에서 사용하는 것을 목적으로 합니다.

Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into "Warnings" and "Cautions".

Warnings: Serious injury or death may occur if any of the warnings are neglected.

Cautions: Injury or equipment damage may occur if any of the cautions are neglected.

⚠	⚠
Warnings Follow these safeguards to prevent serious injury or death.	**Cautions** Follow these precautions to prevent potential injury or material damage.

⚠ **Warnings**

- In the use of the device, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 12 VDC according to the IEC60950-1 standard. Refer to technical specifications for detailed information.
- Do not connect multiple devices to one power adapter to avoid over-heating or a fire hazard caused by overload.
- Make sure that the plug is firmly connected to the power socket.
- Make sure that the device is firmly fixed if wall mounting or ceiling mounting is adopted.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cord, and then contact the service center.
- Never attempt to disassemble the camera by unprofessional personal.

⚠ **Cautions**

- Do not drop the camera or subject it to physical shock.
- Do not touch senor modules with fingers.
- Do not place the camera in extremely hot, cold (the operating temperature shall be -40°C to 60°C), dusty or damp locations, and do not expose it to high electromagnetic radiation.
- If cleaning is necessary, use clean cloth with a bit of ethanol and wipe it gently.
- Do not aim the camera at the sun or extra bright places.
- The sensor may be burned out by a laser beam, so when any laser equipment is in using, make sure that the surface of sensor will not be exposed to the laser beam.
- Do not expose the device to high electromagnetic radiation or extremely hot, cold, dusty or damp environment.
- To avoid heat accumulation, good ventilation is required for the operating environment.
- Keep the camera away from liquid while in use for non-water-proof device.
- While in delivery, the camera shall be packed in its original packing, or packing of the same texture.

1 Introduction

1.1 Product Features
The main features are as follows:

- High performance CMOS sensor
- Smart IR
- Auto white balance
- Up to 40 m IR distance for bright night imaging

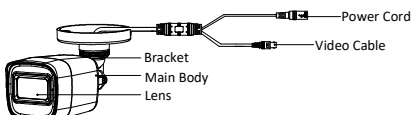## 1.2 Overview

1.2.1 Overview of Type I Camera

Figure 1-1 Overview of Type I Camera

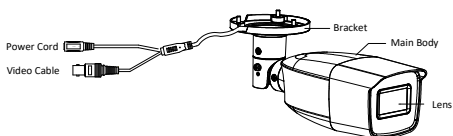### 1.2.2 Overview of Type II Camera

Figure 1-2 Overview of Type II Camera
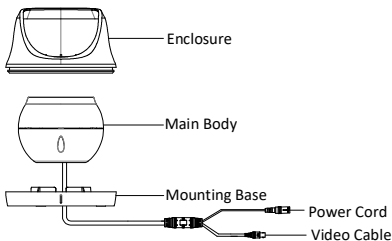
1.2.3 Overview of Type III Camera

Figure 1-3 Overview of Type III Camera

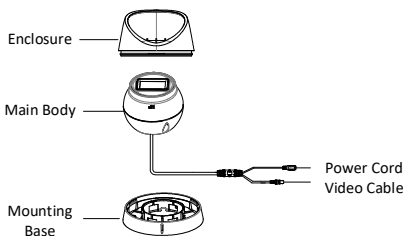### 1.2.4 Overview of Type IV Camera

Figure 1-4 Overview of Type IV Camera

2 Installation

Before you start

- 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 the damage.
- Make sure the wall is strong enough to withstand three times the weight of the camera, and the mount.
- If the wall is cement, insert expansion bolts before installing the camera. If the wall is wooden, use self-tapping screws to secure the camera.
- If the product does not function properly, contact your dealer or the nearest service center. DO NOT disassemble the camera for repair or maintenance by yourself.

2.1 Installation of Type I Camera

2.1.1 Ceiling/Wall Mounting

Before you start:

The installation of ceiling mounting and wall mounting are similar. Following takes ceiling mounting as an example.

Steps:

1. Drill the screw holes and the cable hole (optional) on the ceiling.
   Note:
   Drill the cable hole, when adopting the ceiling outlet to route the cable.
2. Route the cables through the cable hole, or the side opening.
3. Attach the bracket to the ceiling, and secure the camera with supplied screws.
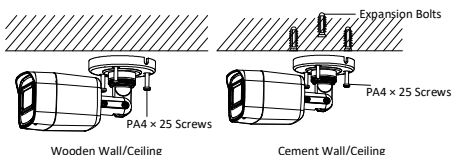

Wooden Wall/Ceiling   Cement Wall/Ceiling

Figure 2-1 Install Camera on Ceiling

Note:
- The supplied screw package contains self-tapping screws, and expansion bolts.
- For cement wall/ceiling, expansion bolts are required to fix the camera. For wooden wall/ceiling, self-tapping screws are required.
4. Connect the corresponding power cord, and video cable.
5. Power on the camera to check if the image on the monitor is gotten from the optimum angle. If not, adjust the camera according to the figure below.
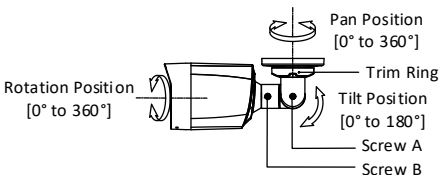

Figure 2-2 3-Axis Adjustment

1). Loosen the trim ring to adjust the pan position [0° to 360°].
2). Loosen screw A to adjust the tilt position [0° to 180°].

3). Loosen screw B to adjust the rotation position [0° to 360°].

2.1.2 Ceiling/Wall Mounting with Junction Box

Before you start:
● You need to purchase a junction box in advance.
● The installation of ceiling mounting and wall mounting are similar. Following takes wall mounting as an example.

1. Paste the drill template on the wall.
2. Drill screw holes and the cable hole on the wall according to the drill template.
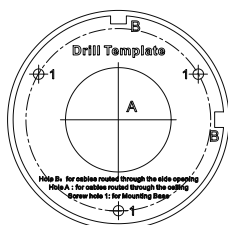

Figure 2-3 Drill Template of Junction Box

3. Take apart the junction box, and align the screw holes of the camera with those on the junction box's cover.
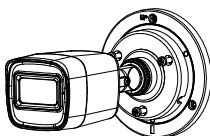4. Attach the camera on the junction box's cover with supplied screws.

Figure 2-4 Attach Camera on Junction Box's Body

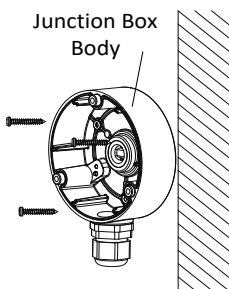5. Secure the junction box's body on the wall with supplied screws.

Figure 2-5 Secure Junction Box on Wall

6. Route the cables through the bottom cable hole, or the side cable hole of the junction box.
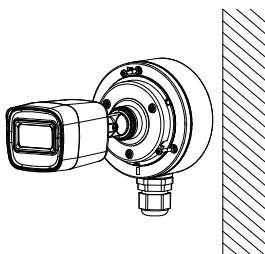7. Combine the junction box cover with its body with three PM3 × 16 L6 screws.

Figure 2-6 Combine Junction Box Cover back to its

Body

8. Connect the corresponding power cord, and video cable.
9. Repeat step 5 of *2.1.1 Ceiling/Wall Mounting* to finish installation.

2.1.3 Wall Mounting with Wall Mount

Before you start:
You need to purchase a wall mount in advance.
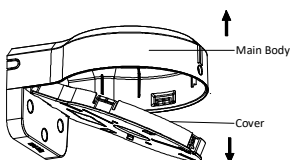***Steps:***

1. Take apart the wall mount.

Figure 2-7 Take Apart Wall Mount

2. Paste the drill template (supplied) to the place where you want to install the camera.
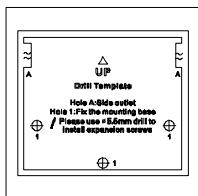3. Drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.

Figure 2-8 Drill Template for Wall Mount

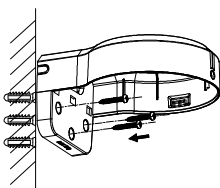4. Attach the main body of the wall mount to the wall and secure it with three PA4 × 25 screws (supplied).

Figure 2-9 Secure Main Body to Wall

5. (Optional) Drill the cable hole, when the cables are routed through the wall.

6. Secure the camera to the cover of the wall mount with three PM4 × 13 screws and three M4 screws.
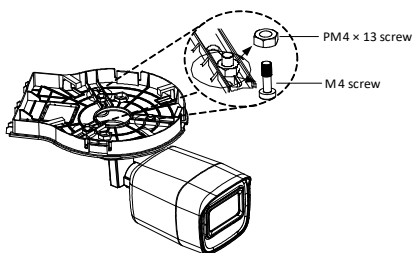

PM4 × 13 screw
M4 screw

Figure 2-10 Secure Camera to Wall Mount Cover

7. Route the cables through the cable hole of the wall mount and connect the cables.
8. Insert one end of the wall mount cover diagonally into the wall mount body, and then snap the other end of the cover upward on the body.
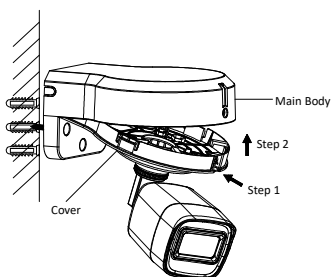

Main Body
Step 2
Step 1
Cover

Figure 2-11 Secure Cover to Body

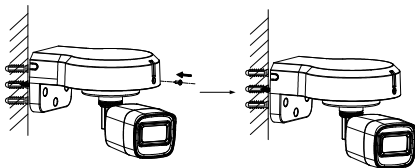9. Lock the cover to the body with one PA3 × 8 screw.

Figure 2-12 Lock Cover to Body

10. Repeat steps 4 to 5 of *2.2.1 Ceiling/Wall Mounting* to adjust the angle and finish the installation.

2.2 Installation of Type II Camera

2.2.1 Ceiling/Wall Mounting

Before you start:

The installation of ceiling mounting and wall mounting are similar. Following takes wall mounting as an example.

Steps:

1. Refer to steps 1 to 4 of *2.2.1 Ceiling/Wall Mounting* to install the camera on the wall.
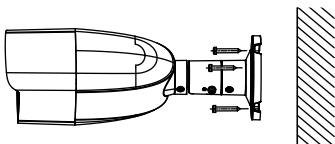
Figure 2-13 Install Camera on Wall

2. Power on the camera to check if the image on the monitor is gotten from the optimum angle. If not, adjust the camera according to the figure below.
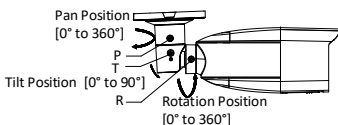

Pan Position [0° to 360°]
P
T
Tilt Position [0° to 90°]
R
Rotation Position [0° to 360°]

Figure 2-14 3-Axis Adjustment

4). Loosen the T adjusting screw to adjust the tilt position [0° to 90°].
5). Loosen the P adjusting screw to adjust the pan position [0° to 360°].
6). Loosen the R adjusting screw to adjust the rotation position [0° to 360°].

3. Tighten the screws to finish the installation.

2.2.2 Ceiling/Wall Mounting with Junction Box

Before you start:
You need to purchase a junction box in advance.
Steps:
1. Refer to steps 1 to 8 of *2.1.2 Ceiling/Wall Mounting with Junction Box* to mount the camera to the junction box and connect the cables.
2. Refer to steps 2 of *2.2.1 Ceiling/Wall Mounting* to finish installation.

2.2.3 Adjust Zoom and Focus

Steps:
1. Remove the cover on the bottom of the device.
2. Tighten or loosen the screws by the cover to adjust the zoom and focus.
   - F/N: Screw to the direction of F to focus far, and screw to the direction of N to focus near.
   - T/W: Screw to the direction of T to zoom in, and screw to the direction of W to zoom out.
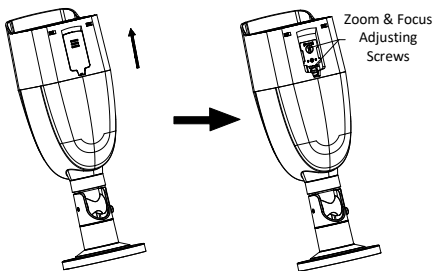

Zoom & Focus Adjusting Screws
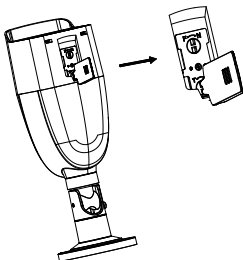
Figure 2-15 Remove Cover

Figure 2-16 Adjust Zoom and Focus

2.3 Installation of Type III Camera

2.3.1 Ceiling Mounting

Steps:
1. Disassemble the camera by rotating the camera to align the notch to one of the marks.
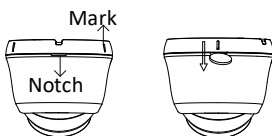2. Pry the mounting base by using a flat object, e.g., a coin.

Figure 2-17 Disassemble Camera

3. Drill the screw holes and the cable hole (optional) on the ceiling.
   Note:
   Drill the cable hole, when adopting the ceiling outlet to route the cable.
4. Attach the mounting base to the ceiling, and secure it with supplied screws. For cement ceiling, you need to mount the expansion bolts at first.
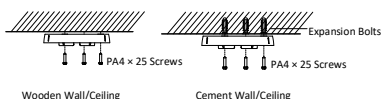

Figure 2-18 Install Mounting Base to Ceiling

Note:
- The supplied screw package contains self-tapping screws, and expansion bolts.
- For cement wall/ceiling, expansion bolts are required to fix the camera. For wooden wall/ceiling, self-tapping screws are required.
5. Route the cables through the cable hole, or the side opening.
6. Install the camera back to the mounting base and secure it.
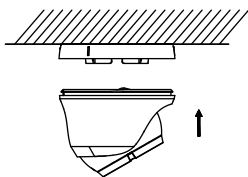

Figure 2-19 Install the Camera Back

7. Connect the corresponding power cord, and video cable.
8. Power on the camera to check whether the image on the monitor is gotten from the optimum angle. If not, adjust the camera according to the figure below to get an optimum angle.
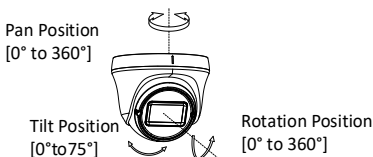
Pan Position
[0° to 360°]

Tilt Position
[0°to75°]

Rotation Position
[0° to 360°]

Figure 2-20 3-Aixs Adjustment

2.3.2 Ceiling Mounting with Junction Box/Inclined Ceiling Mount

Before you start:
● You need to purchase a junction box or an inclined ceiling mount in advance.
● Ceiling mounting with junction box and inclined ceiling mount are similar. Following steps take junction box installation as an example.

Steps:
1. Drill screw holes on the wall.
2. Take apart the junction box, and align the screw holes of the mounting base with those on the junction box's cover.
3. Install the mounting base to the junction box's cover with three PM4 screws.

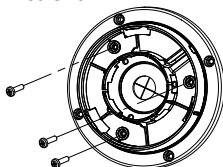Figure 2-21 Secure Mounting Base on Junction Box's Cover

4. Secure the junction box's body on the wall with four PA4 × 25 screws.
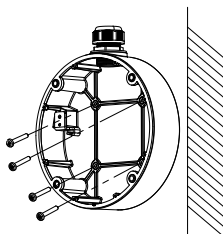

Figure 2-22 Secure Junction Box's Body

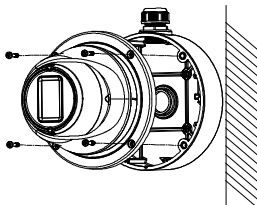5. Route the cables and use four PM4 screws to combine the junction box's cover with its body.

Figure 2-23 Combine Junction Box Cover with its Body

6. Repeat the step 6 to 8 of *2.3.1 Ceiling Mounting* to finish the installation.
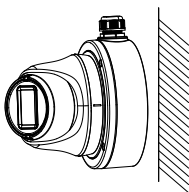
Figure 2-24 Finish Installation

2.3.3 Wall Mounting

Before you start:

You need to purchase a wall mount in advance.

Steps:

1. Drill Ø10 mm screw holes in the wall where you want to install the wall mount.
2. Use four M6 expansion bolts to fix the wall mount onto the wall.
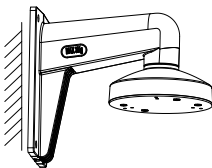
Figure 2-25 Fix Wall Mount

3. Use three PM4 × 10 screws to fix the gang box onto the wall mount.
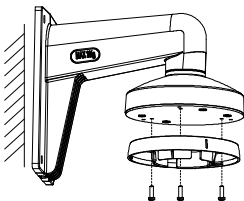
Figure 2-26 Fix Gang Box

4. Repeat the step 6 to 8 of *错误!未找到引用源。 Ceiling Mounting* to adjust the angle and finish the installation.
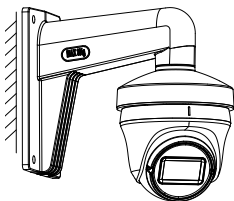
Figure 2-27 Finish Installation

2.3.4 Adjust Zoom and Focus

Tighten or loosen the screws by a straight screwdriver to adjust the zoom and focus.

- F/N: Screw to the direction of F to focus far, and screw to the direction of N to focus near.
- T/W: Screw to the direction of T to zoom in, and screw to the direction of W to zoom out.
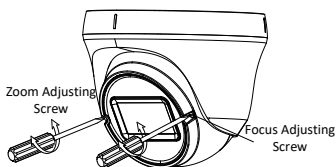
Figure 2-28 Adjust Zoom and Focus

2.4 Installation of Type IV Camera

2.4.1 Ceiling Mounting

Ceiling mounting of Type III camera and ceiling mounting of Type IV camera are similar. You can refer to *2.3.1 Ceiling Mounting* to finish installation.

2.4.2 Ceiling/Wall Mounting with Junction Box/Inclined Ceiling Mount

Type I Junction Box/Inclined Ceiling Mount

Ceiling/wall mounting with Type I junction box/inclined ceiling mount of Type IV camera is similar to that of Type III camera. You can refer to *2.3.2 Ceiling Mounting with Junction Box/Inclined Ceiling Mount* to finish installation.

Note:
You need to purchase a type I junction box or an inclined ceiling mount in advance.

Type II Junction Box

Before you start:

You need to purchase a type II junction box in advance.
Steps:
1. Paste the drill template for junction box to the place where you want to install the camera.
2. (Optional) For cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
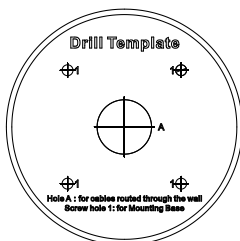
Figure 2-29 Drill Template
Figure 2-30

3. (Optional) Drill the cable hole, when the cables are routed through the wall.
4. Install the junction box to the wall with three PA4 screws.
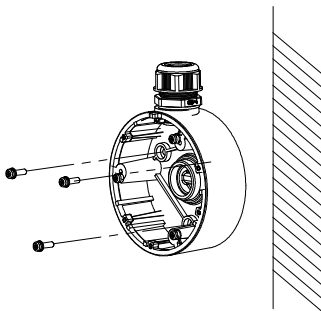
Figure 2-31 Secure Junction Box to Wall

5. Dissemble the camera and secure the mounting base to junction box with three PM 4 × 25 screws.
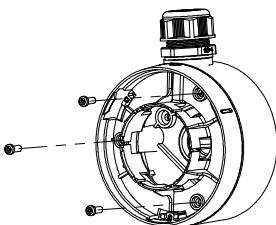
Figure 2-32 Secure Mounting Base to Junction Box

6. Route the cables through the cable hole.

7. Install the camera back to the mounting base and secure it.
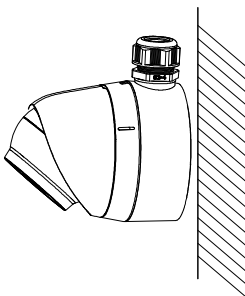
8. Refer to step 7 to 8 of *2.3.1 Ceiling Mounting* to adjust the angle and finish installation.

2.4.3 Wall Mounting

Wall mounting of Type III camera and wall mounting of Type IV camera are similar. You can refer to *2.3.3 Wall Mounting* to finish installation.
Note:
You need to purchase a wall mount in advance.

3 Menu Description

Please follow the steps below to call the menu.
Note:

The actual display may vary with your camera model. The menu is not available when you switch the video output to CVBS.

Steps:

1. Connect the camera with the TVI DVR, and the monitor, shown as the figure 3-1.
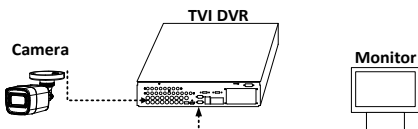
Figure 3-1 Connection

2. Power on the camera, TVI DVR, and the monitor to view the image on the monitor.
3. Click PTZ Control to enter the PTZ Control interface.
4. Call the camera menu by clicking ▤ button, or call the preset No. 95.
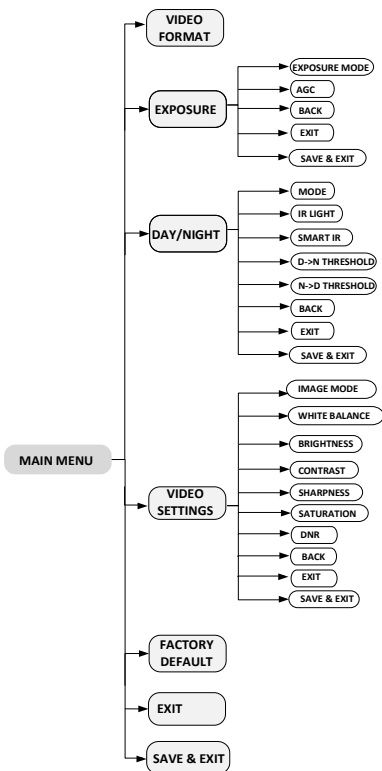
Figure 3-2 Main Menu Overview

5. Click the direction arrow to control the camera.
   1). Click up/down direction button to select the item.
   2). Click Iris + to confirm the selection.
   3). Click left/right direction button to adjust the value of the selected item.

3.1 VIDEO FORMAT

You can set the video format to 2 MP @25 fps or 2 MP @30 fps.

3.2 EXPOSURE

EXPOSURE MODE

You can set the **EXPOSURE MODE** to **GLOBAL**, **BLC**, **HLC**, or **DWDR**.

● **GLOBAL**

GLOBAL refers to the normal exposure mode which adjusts lighting distribution, variations, and non-standard processing.

● **BLC (Backlight Compensation)**

BLC (Backlight Compensation) compensates light to the object in the front to make it clear, but this may cause the over-exposure of the background where the light is strong.

● **HLC (Highlight Compensation)**

HLC stands for highlight compensation. The camera detects the strong spots (the over-exposure portion of image), then reduce the brightness of the strong spots to improve the overall images.

● **DWDR (Digital Wide Dynamic Range)**

Digital wide dynamic range gives the camera the ability to view dark areas of the given image as well as extremely lighted portions of the image, or areas of high contrast.

AGC (Auto Gain Control)

It optimizes the clarity of the image in poor light conditions. The **AGC** level can be set to **HIGH**, **MEDIUM**, or **LOW**.

Note:
The noise will be amplified when setting the **AGC** level.

3.3 DAY/NIGHT

COLOR, **B&W** (Black and White), and **AUTO** are selectable for **DAY/NIGHT** switch.

COLOR

The image is colorful in day mode all the time.

B&W (Black and White)

The image is black and white all the time, and the **IR LIGHT** turns on in the poor light conditions.
You can turn on/off the **IR LIGHT** and set the value of **SMART IR** in this menu

```
              DAY/NIGHT

   MODE            ◀ B & W ▶
   IR LIGHT        ◀ ON ▶
   SMART IR        ◀ 1 ▶
   BACK            ↵
   EXIT            ↵
   SAVE & EXIT     ↵
```

Figure 3-3 DAY/NIGHT

● **IR LIGHT**

You can turn on/off the IR LIGHT to meet the requirements of different circumstances.

● **SMART IR**

The **Smart IR** function is used to adjust the light to its most suitable intensity, and prevent the image from over exposure.

AUTO

Automatically switch **Color** or **B&W** (Black and White) according to actual scene brightness.

You can turn on/off the **IR LIGHT**, and set the value of **SMART IR** in this menu.

```
              DAY/NIGHT

MODE                   ◀ AUTO ▶
IR LIGHT               ◀ ON ▶
SMART IR               ◀ 0   ▶
D → N THRESHOLD        ◀ 7   ▶
N → D THRESHOLD        ◀ 7   ▶
BACK                   ↵
EXIT                   ↵
SAVE & EXIT            ↵
```
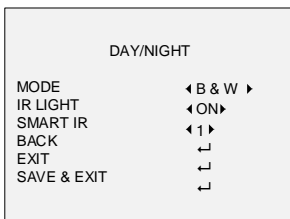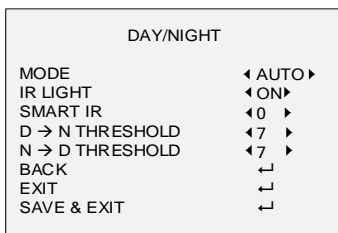
Figure 3-4 DAY/NIGHT

● **IR LIGHT**

You can turn on/off the **IR LIGHT** to meet the requirements of different circumstances.

● **SMART IR**

The **Smart IR** function is used to adjust the light to its most suitable intensity, and prevent the image from over exposure.

● **D→ N Threshold (Day to Night Threshold)**

Day to Night Threshold is used to control the sensitivity of switching the day mode to the night mode. You can set the value from 1 to 9. The larger the value is, the more sensitive the camera is.

● **N→ D Threshold (Night to Day Threshold)**

Night to Day Threshold is used to control the sensitivity of switching the night mode to the day mode. You can set the value from 1 to 9. The larger the value is, the more sensitive the camera is.

3.4 VIDEO SETTINGS

Move the cursor to **VIDEO SETTINGS** and click Iris+ to enter the submenu. **IMAGE MODE**, **WHITE BALANCE**, **BRIGHTNESS**, **CONTRAST**, **SHARPNESS**, **SATURATION**, and **DNR** are adjustable.
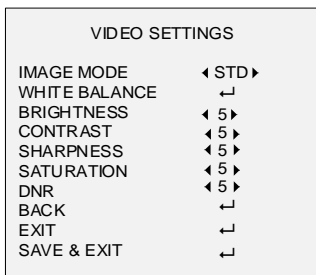
```
            VIDEO SETTINGS

IMAGE MODE             ◀ STD ▶
WHITE BALANCE          ↵
BRIGHTNESS             ◀ 5 ▶
CONTRAST               ◀ 5 ▶
SHARPNESS              ◀ 5 ▶
SATURATION             ◀ 5 ▶
DNR                    ◀ 5 ▶
BACK                   ↵
EXIT                   ↵
SAVE & EXIT            ↵
```

Figure 3-5 VIDEO SETTINGS

IMAGE MODE

IMAGE MODE is used to adjust the image saturation, and you can set it to **STD** (Standard) or **HIGH**-**SAT** (High Saturation).

WHITE BALANCE

White balance, the white rendition function of the camera, is to adjust the color temperature according to the environment. It can remove unrealistic color casts in the image. You can set **WHITE BALANCE** mode to **AUTO**, or **MANUAL**.

● **AUTO**

Under **AUTO** mode, white balance is being adjusted automatically according to the color temperature of the scene illumination.

- **MANUAL**

You can set the **R-GAIN**/**B-GAIN** value to adjust the shades of red/blue color of the image.

```
            WHITE BALANCE

MODE                    ◀ MANUAL ▶
R-GAIN                  ◀ 110 ▶
B-GAIN                  ◀ 110 ▶
BACK                       ↵
EXIT                       ↵
SAVE&EXIT                  ↵
```
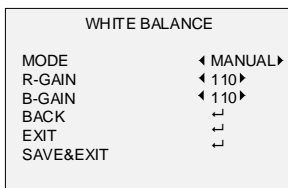
Figure 3-6 MWB MODE

BRIGHTNESS

Brightness refers to the brightness of the image. You can set the brightness value from 1 to 9 to darken or brighten the image. The greater the value is, the brighter the image is.

CONTRAST

This feature enhances the difference in color and light between parts of an image.

SHARPNESS

Sharpness determines the amount of detail an imaging system can reproduce.

SATURATION

Saturation is the proportion of pure chromatic color in the total color sensation. Adjust this feature to change the saturation of the color.

DNR

DNR refers to digital noise reduction. This function reduces noise in video stream.

3.5 FACTORY DEFAULT

Reset all the settings to the factory default.

3.6 EXIT

Move the cursor to **EXIT** and click Iris+ to exit the menu.

3.7 SAVE & EXIT

Move the cursor to **SAVE & EXIT** and click Iris+ to save the settings, and exit the menu.