



HIKVISION D0T C Series Bullet Camera User Manual

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D0T(C) Series Bullet Camera 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:

Model
DS-2CE17D0T-IT1/3/5(C)
DS-2CE17D0T-IT1/3/5F(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.
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Regulatory Information

FCC Information

Please take attention that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class 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 2014/35/EU, the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



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. 2006/66/EC (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.



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 users 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 and IEC62368-1 standard. Refer to technical specifications or 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 rises 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 the unprofessional person.



Cautions

- Do not drop the camera or subject it to physical shock.
- Do not touch sensor 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 a 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 use, 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 the liquid while in use for non-water-proof devices.
- While in delivery, the camera shall be packed in its original packing, or packing of the same texture

Introduction

1.1 Product Features

The main features are as follows:

- High-performance CMOS sensor
- Auto white balance
- Smart IR
- 3-Axis Adjustment

1.2 Overview

Camera models without F refer to TVI cameras and those with F refer to 4 in 1 video output cameras.

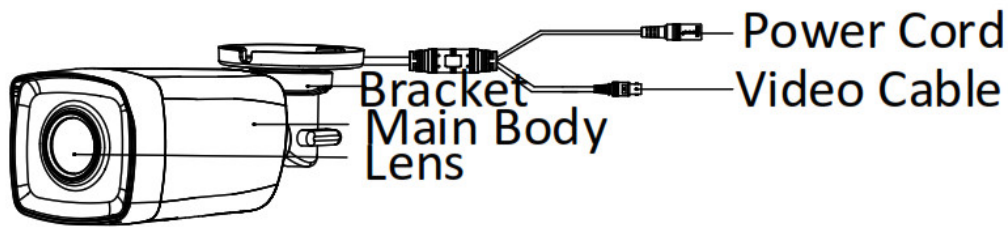


Figure 1-1 Overview of Camera Model Without F

Note: This camera is TVI only.

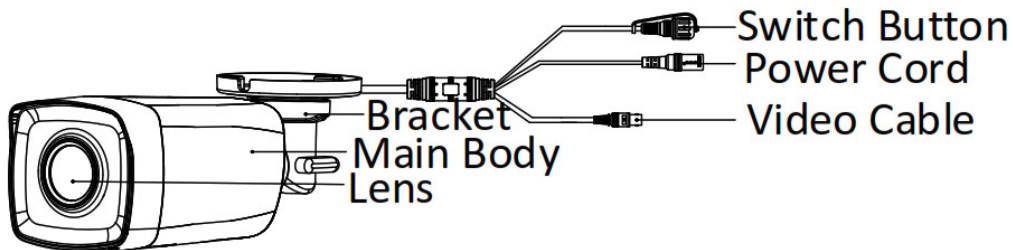


Figure 1-2 Overview of Camera Model with F

Note: Press and hold the switch button for 5 seconds to switch the video output. Four kinds of video outputs are available: TVI, AHD, CVI, and CVBS.

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 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 Ceiling/Wall Mounting without Junction Box Before you start:

Ceiling mounting and wall mounting are similar. Following steps take ceiling mounting as an example.

Steps:

1. (Optional) For cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
2. (Optional) Drill the cable hole when the cables are routed through the ceiling.
3. Align the screw holes in the bracket to the ceiling, and secure the camera with three PA4 × 25 screws (supplied).

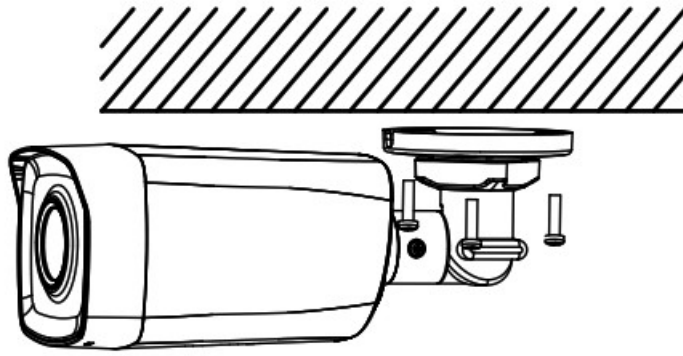


Figure 2-1 Secure the Camera on the Ceiling

4. Connect the 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.

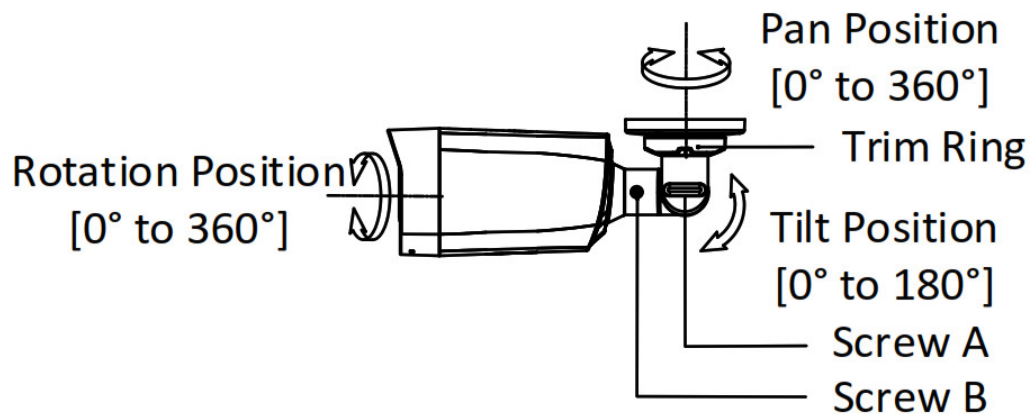


Figure 2-2 3-Axis Adjustment

- 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°].
6. Turn the trim ring clockwise and tighten screws A and B to finish installation.

2.2 Ceiling/Wall Mounting with Junction Box

Before you start:

- You need to purchase a junction box in advance.
 - Ceiling mounting and wall mounting are similar.
- Following steps take wall mounting as an example.

Steps:

1. Paste the drill template for junction box to the place where you want to install the camera.
2. (Optional) For cement wall, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.

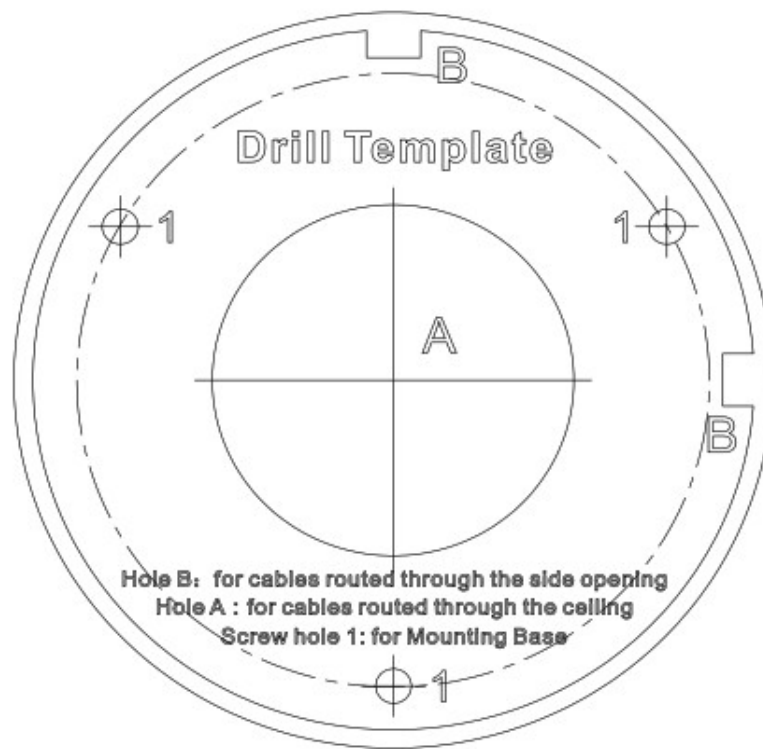


Figure 2-3 Drill Template for Junction Box

3. (Optional) Drill the cable hole, when the cables are routed through the wall.
4. Take apart the junction box.
5. Align the screw holes of the camera with those on the junction box cover. Attach the camera to the junction box cover with three PM4 × 10 screws.

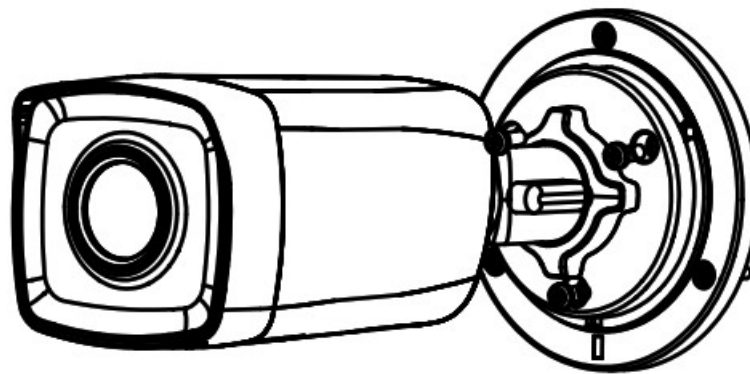


Figure 2-4 Attach the Camera to the Junction Box Cover

6. Secure the junction box body on the wall with three PA4 × 25 screws (supplied).

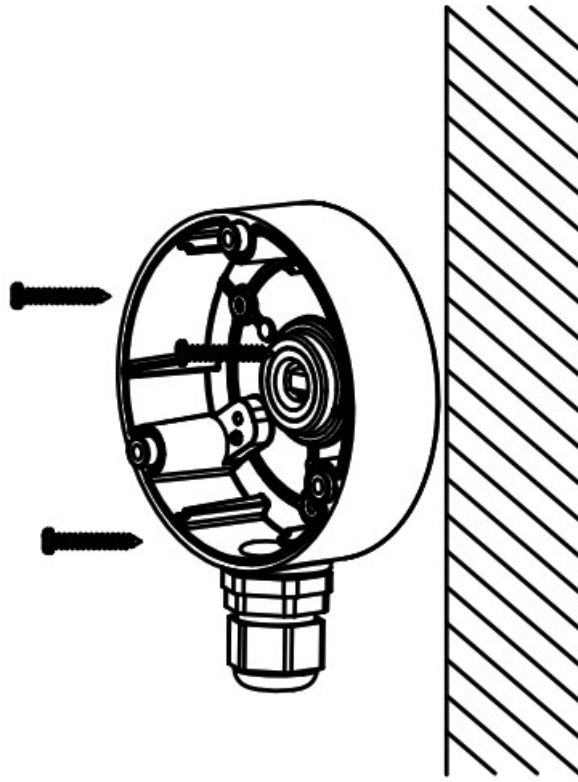


Figure 2-5 Secure the Junction Box on the Wall

7. Route the cables through the bottom cable hole or side cable hole of the junction box and connect the cables.
8. Fix the junction box cover on its body with three PM3 × 16 L6 screws that come with the junction box.

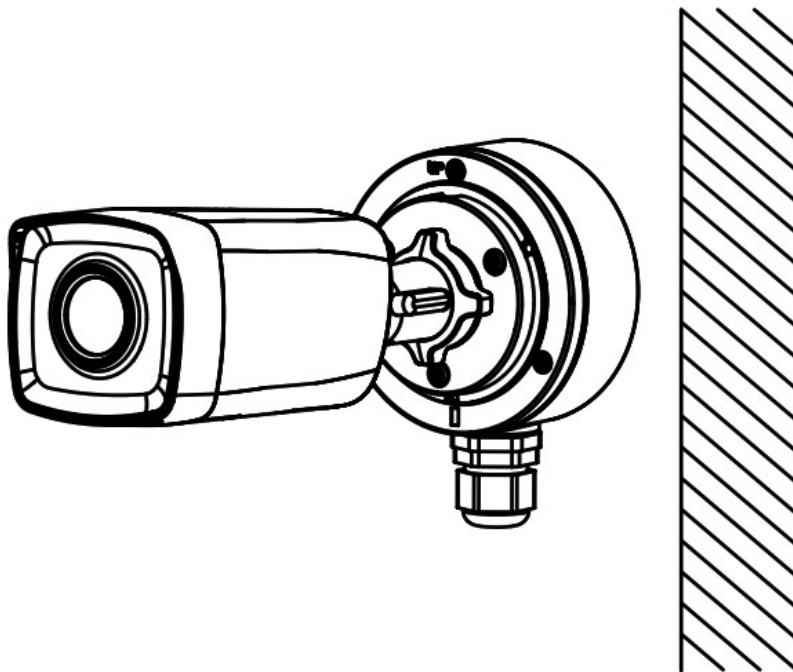


Figure 2-6 Fix the Junction Box Cover on Its Body

9. Repeat steps 5 to 6 of 2.1 Ceiling/Wall Mounting without Junction Box to finish the installation.

Menu Description

Please follow the steps below to call the menu.

Note: The actual display may vary with your camera model.

Steps:

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

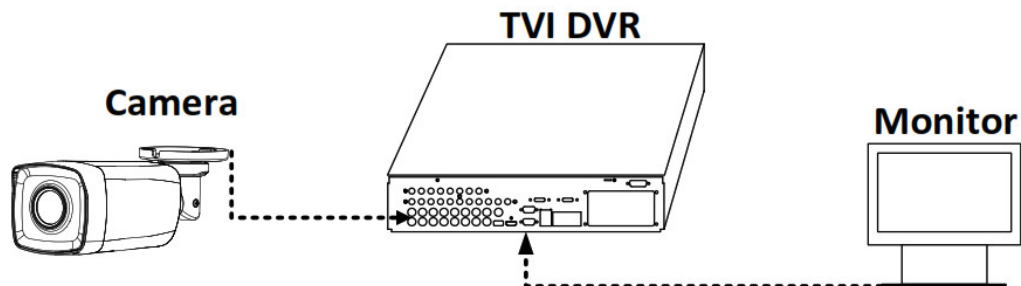



Figure 3-1 Connection

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 calling the preset No. 95.

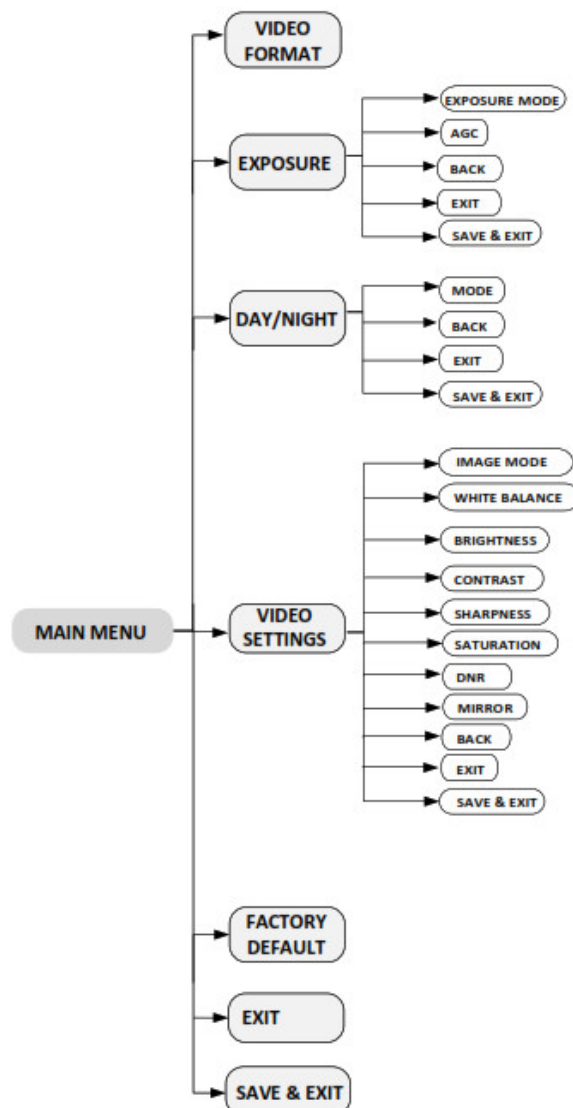


Figure 3-2 Main Menu Overview

5. Click the direction arrow to control the camera.
 - 1). Click the 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 2MP@30fps, 2MP@25fps, PAL, or NTSC.

Note:

When switching the video output to TVI/ CVI/ AHD, you can set the video format to 2MP@30fps or 2MP@25fps; when switching the video output to CVBS, you can set the video format to PAL or NTSC.

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, **BW** (Black White), and **AUTO** are selectable for the **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 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 B&W

- **IR LIGHT**

You can turn on/off the **IR LIGHT** to meet 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. The **SMART IR** value can be adjusted from 0 to 3. The higher the value is, the more obvious effects are.

AUTO

Automatically switch Color, or BW (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	◀ 2 ▶
D → N THRESHOLD	◀ 5 ▶
N → D THRESHOLD	◀ 5 ▶
BACK	⬅
EXIT	⬅
SAVE & EXIT	⬅

Figure 3-4 AUTO

- **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. The SMART IR value can be adjusted from 0 to 3. The higher the value, the more obvious effects.

- **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**, **DNR**, and **MIRROR** are adjustable.

VIDEO SETTINGS	
IMAGE MODE	◀STD▶
	↶
BRIGHTNESS	◀5▶
CONTRAST	◀5▶
SHARPNESS	◀5▶
SATURATION	◀5▶
DNR	◀5▶
MIRROR	◀OFF▶
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, the white balance is being adjusted automatically according to the color temperature of the scene illumination.

- **MANUAL**

You can adjust the **R-GAIN** and **B-GAIN** values to correct colors manually.

WHITE BALANCE	
MODE	◀MANUAL▶
R-GAIN	◀5▶
B-GAIN	◀5▶
BACK	↶
EXIT	↶
SAVE&EXIT	↶

Figure 3-6 WHITE BALANCE

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 reduces noise in video stream.

MIRROR

OFF, **H**, **V**, and **HV** are selectable for mirrors.

OFF: The mirror function is disabled.

H: The image flips 180° horizontally.

V: The image flips 180° vertically.

HV: The image flips 180° both horizontally and vertically.

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.

UD18170B-B



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User Manual

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

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Model
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DS-2CE1600T-RTZ (A/B/C)

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