# HiL⊙⊙k



# **HiLook Series Smart Hybrid Light Bullet & Turret Camera**

User Manual

<u>User Manual</u>
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         |              | Note      |
|--------------------|--------------|-----------|
| Type I Camera      | THC-B227-LMS | 2MP model |
|                    | THC-B257-LMS | 3K model  |
| Type II Camera     | THC-B127-LPS | 2MP model |
|                    | THC-B127-LMS |           |
|                    | THC-B157-LPS | 3K model  |
|                    | THC-B157-LMS |           |
| Type III<br>Camera | THC-T127-LPS | 2MP model |
|                    | THC-T157-LPS | 3K model  |
| Type IV            | THC-T127-LMS | 2MP model |
| Camera             | THC-T157-LMS | 3K model  |
| Type V<br>Camera   | THC-T227-LMS | 2MP model |
|                    | THC-T257-LMS | 3K model  |

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# **Regulatory Information**

### **FCC Information**

Please take attention that changes or modification 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.
- This device must accept any interference received, including interference that may cause undesired operation.

# **EU Conformity Statement**

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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 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

| <u> </u>               | <u> </u>               |
|------------------------|------------------------|
| Warnings Follow        | Cautions Follow these  |
| these safeguards to    | precautions to prevent |
| prevent serious injury | potential injury or    |
| or death.              | material damage.       |



### Warnings

of the cautions are neglected.

- 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 for detailed information.
- · The socket-outlet shall be installed near the equipment and shall be easily accessible.
- An all-pole mains switch shall be incorporated in the electrical installation of the building.
- 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.



- No naked flame sources, such as lighted candles, should be placed on the equipment.
- Install the equipment according to the instructions in this manual.
- To prevent injury, this equipment must be securely attached to the wall in accordance with the installation instructions.
- 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.
- The beam of the light at the distance of 200 mm is classified as Risk Group 1 (RG1). Possible hazardous optical radiation emitted from this product.
- DO NOT stare at operating light source. May be harmful to the eyes.
- Wear appropriate eye protection or turn on the supplement light only at a safe distance (0.3 m) or in the area that is not directly exposed to the light when installing or maintaining the device.



# 1 Introduction

# 1.1 Product Features

The main features are as follows:

- High performance CMOS sensor
- OSD menu with configurable parameters
- Smart light
- 3-axis adjustment
- · Hybrid supplement light with IR and white light

### 1.2 Overview

### 1.2.1 Overview of Type I Camera

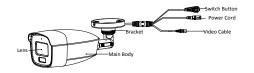


Figure 1-1 Overview of Type I Camera

#### 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.

## 1.2.2 Overview of Type II Camera

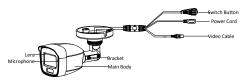


Figure 1-2 Overview of Type II Camera

### 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.

### 1.2.3 Overview of Type III Camera

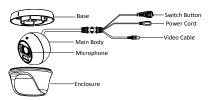


Figure 1-3 Overview of Type III Camera

### 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.

# 1.2.4 Overview of Type IV Camera

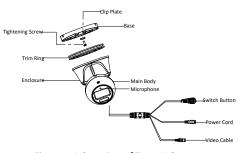


Figure 1-4 Overview of Type IV Camera

### 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.

### 1.2.5 Overview of Type V Camera

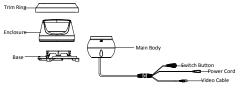


Figure 1-5 Overview of Type V Camera

#### 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.

# 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 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 Installation of Type I & II Camera

### 2.1.1 Ceiling/Wall Mounting without Junction Box

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

### Steps:

- Paste the drill template (supplied) to the installation location.
- (Optional) For cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
- 3. (Optional) Drill the cable hole, when the cables are routed through the ceiling.
- Secure the camera to ceiling with three PA4 × 25 screws (supplied).



Figure 2-1 Secure the Camera to the Ceiling

- Connect the cables.
- Power on the camera to adjust the view angle according to the figure below.

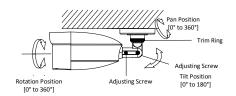


Figure 2-2 3-Axis Adjustment

# 2.1.2 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 installation location.
- (Optional) For cement wall, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
- 3. (Optional) Drill the cable hole, when the cables are routed through the wall.
- 4. Take apart the junction box.
- 5. Fix the camera to the junction box cover with three  $PM4 \times 10$  screws.

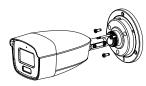


Figure 2-3 Fix the Camera to the Junction Box Cover

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

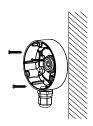


Figure 2-4 Secure the Junction Box on the Wall

- Route the cables through the bottom cable hole or side cable hole of the junction box and connect the cables.
- Fix the junction box cover on its body with three PM3 x 16 L6 screws.

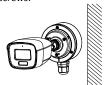


Figure 2-5 Fix the Cover to Its Body

9. Refer to Step 6 of 2.1.1 Ceiling/Wall Mounting without Junction Box to finish installation.

# 2.2 Installation of Type III Camera

# 2.2.3 Ceiling Mounting Without Junction Box

### Steps:

 Rotate the camera to align the mark with the notch. Insert a coin or another tool into the notch, and press down to dissemble the camera.

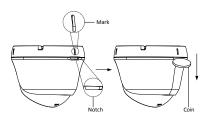


Figure 2-6 Dissemble the Camera

- Paste the drill template (supplied) to the place where you want to install the camera.
- (Optional) For cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
- (Optional) Drill the cable hole, when the cables are routed through the ceiling.
- Use two PA4 × 25 screws (supplied) to secure the base to the ceiling.

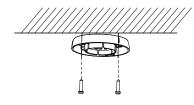


Figure 2-7 Secure the Base to the Ceiling

6. Align the notch with the mark to install the camera back to the base and secure it.

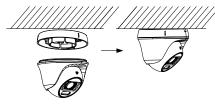


Figure 2-8 Install the Camera Back

- 7. Connect the cables.
- 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.

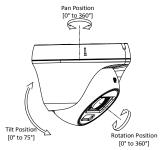


Figure 2-9 3-Axis Adjustment

- 1). Rotate the enclosure to adjust the pan position [0° to 360°].
- 2). Move the main body up and down to adjust the tilt position [0° to 75°].
- 3). Rotate the main body to adjust the rotation position [0° to 360°].

# 2.2.4 Ceiling Mounting with Junction Box

### Before you start:

You need to purchase a junction box in advance.

### Steps:

- Loosen screws to take apart the junction box.
- Paste the drill template for junction box to the place where you want to install the camera.
- (Optional) For cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
- (Optional) Drill the cable hole, when the cables are routed through the ceiling.
- Secure the junction box body on the ceiling with four PA4 × 25 screws that come with the junction box.

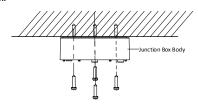


Figure 2-10 Secure the Junction Box Body

- Route the cables through the bottom cable hole or the side cable hole of the junction box.
- Combine the junction box cover with the base of the camera and secure it with two M4 × 10 screws.

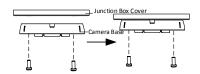


Figure 2-11 Combine Junction Box Cover and Camera Base

Fix the junction box cover onto the junction box body with three M3 screws.

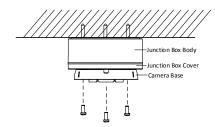


Figure 2-12 Combine Junction Box Cover and Junction Box Body

- Connect the power cord and video cable and put the cables back into the junction box.
- 10. Repeat the steps 6 to 9 of 2.2.3 Ceiling Mounting Without Junction Box to finish the installation.

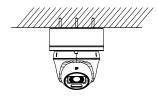


Figure 2-13 Finish the Installation

# 2.2.5 Wall Mounting

### Before you start:

You need to purchase a wall mount in advance.

### Steps:

- Drill Ø10 mm screw holes in the wall where you want to install the wall mount.
- Use four M6 expansion bolts to fix the wall mount onto the wall.

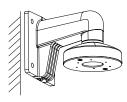


Figure 2-14 Fix the Wall Mount

- 3. Loosen the set screw.
- 4. Refer to step 1 of 2.2.3 Ceiling Mounting Without Junction Box to dissemble the camera.
- 5. Use two M4 × 10 screws to fix the base onto the wall mount.

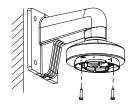


Figure 2-15 Fix the Base onto the Wall Mount

6. Repeat steps 6 to 9 of 2.2.3 Ceiling Mounting Without Junction Box to finish the installation.

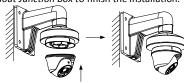


Figure 2-16 Finish the Installation

# 2.3 Installation of Type IV Camera

# 2.3.6 Ceiling Mounting without Junction Box Steps:

- Paste the drill template (supplied) to the installation location.
- (Optional) For cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
- 3. Loosen the tightening screw, and pull out the clip plate to dissemble the camera.



Figure 2-17 Dissemble the Camera

- Install the camera to ceiling.
  - i. Method 1:

Secure the installation plate to the ceiling with three PA4 × 25 screws (supplied).

Method 2:

Drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs, and secure the installation plate to the ceiling with three PA3  $\times$  25 screws.

- ii. Fit the camera onto the installation plate.
- iii. Turn the camera as the figure below until it snaps into the installation plate.

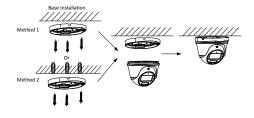


Figure 2-18 Install the Camera to Ceiling

- 5. Connect the cables.
- Power on the camera to adjust the view angle according to the figure below.

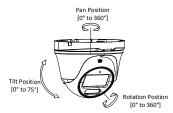


Figure 2-19 3-Axis Adjustment

- Rotate the enclosure to adjust the pan position [0° to 360°].
- 5). Move the main body up and down to adjust the tilt position [0° to 75°].
- 6). Rotate the main body to adjust the rotation position [0° to 360°].

# 2.3.7 Ceiling Mounting with Junction Box Before you start:

You need to purchase a junction box in advance.

### Steps:

- Loosen screws to take apart the junction box.
- Paste the drill template for junction box to the installation location.
- (Optional) For cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
  - (Optional) Drill the cable hole, when the cables are routed through the ceiling.
- Secure the junction box body on the ceiling with four PA4 × 25 screws according to the actual object.

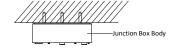


Figure 2-20 Secure the Junction Box Body

6. Fix the junction box cover to the junction box body.

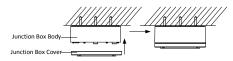


Figure 2-21 Fix Junction Box Cover to Junction Box Body



Figure 2-22 Finish Installation

- Route the cables through the bottom cable hole or the side cable hole of the junction box.
- Refer to step 5 of 2.3.6 Ceiling Mounting without Junction Box to adjust the angle and finish the installation.

# 2.3.8 Wall Mounting

### Before you start:

You need to purchase a wall mount in advance.

# Steps:

- Drill Ø10 mm screw holes in the wall where you want to install the wall mount.
- Use four M6 expansion bolts to fix the wall mount onto the wall.



Figure 2-23 Fix the Wall Mount

3. Use three PM4 screws to fix the installation plate onto the wall mount.



Figure 2-24 Fix the Installation Plate

4. Refer to steps 3 to 5 of Section 2.3.6 Ceiling Mounting without Junction Box to finish installation.

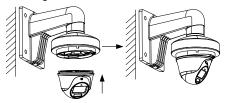


Figure 2-25 Finish Installation

# 2.4 Installation of Type V Camera

# 2.4.1 Ceiling Mounting

# Steps:

- Paste the drill template (supplied) to the installation location.
- (Optional) For cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
- 3. Rotate the camera counterclockwise to remove the trim ring.



Figure 2-26 Remove Trim Ring

- Install the camera to ceiling.
  - iv. Secure the installation plate to the ceiling with three PA4 × 25 screws (supplied).
    - v. Install the trim ring.
  - vi. Turn the camera as the figure below until it snaps into the installation plate.

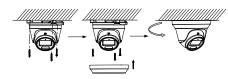


Figure 2-27 Install the Camera to Ceiling

- 5. Connect the cables.
- Power on the camera to adjust the view angle according to the figure below.

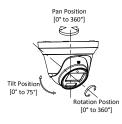


Figure 2-28 3-Axis Adjustment

- Rotate the enclosure to adjust the pan position [0° to 360°].
- 2). Move the main body up and down to adjust the tilt position [0° to 75°].
- 3). Rotate the main body to adjust the rotation position [0° to 360°].

# 2.4.2 Wall Mounting without Junction Box

# Before you start:

You need to purchase a wall mount in advance.

### Steps:

- Drill Ø10 mm screw holes in the wall where you want to install the wall mount.
- Use four M6 expansion bolts to fix the wall mount onto the wall.



Figure 2-29 Fix the Wall Mount

3. Rotate the camera counterclockwise to remove the trim ring.



Figure 2-30 Remove Trim Ring

4. Use three PM4  $\times$  10 screws to fix the installation plate onto the wall mount.



Figure 2-31 Fix the Installation Plate

5. Refer to steps 3 to 5 of Section 2.3.6 Ceiling Mounting without Junction Box to finish installation.

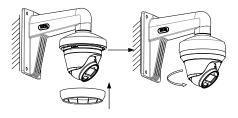


Figure 2-32 Finish Installation

### 2.4.3 Wall Mounting with Junction Box

### Before you start:

- You need to purchase a junction box in advance.
- Ceiling mounting with a junction box is similar to ceiling mounting with an inclined ceiling mount.
   Following steps take a junction box as an example.

# Steps:

 Rotate the camera counterclockwise to remove the trim ring.

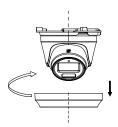
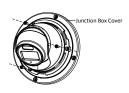


Figure 2-33 Remove Trim Ring

- 2. Paste the drill template for junction box to the installation location.
- 3. Take the junction box apart. Secure the turret to the junction box cover with three or four PA4  $\times$  10 screws.



 Fix the junction box body to the wall with four PA4 × 25 screws.



Figure 2-34 Fix Junction Box to Wall

- Route the cables through the bottom cable hole or the side cable hole of the junction box.
- Secure the junction box cover to the junction box cover with four PA4 × 25 screws. Refer to step 4 to 6 of 2.4.1 Ceiling Mounting to adjust the angle and finish the installation.



Figure 2-35 Finish Installation

# 3 Waterproof Measures

If the camera is installed outdoor, you should use the waterproof tapes to waterproof the cables. Otherwise the cables might get wet or a short circuit occurs.

### Note:

Waterproof tapes should be purchased separately.

After routing and connecting the cables, use the waterproof tapes to wrap up the cables. Connected cables and spare cables both should be wrapped up as the figures below.

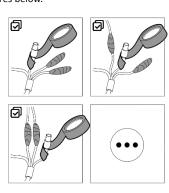


Figure 3-1 Waterproof Cables

# 4 Menu Description

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

The actual display may vary with your camera model. **Steps:** 

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

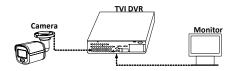


Figure 4-1 Connection

- 2. Power on the camera, TVI DVR, and monitor to view the image on the monitor.
- 3. Click PTZ Control to enter the PTZ Control interface.
- Call the camera menu by clicking button or calling preset No. 95.

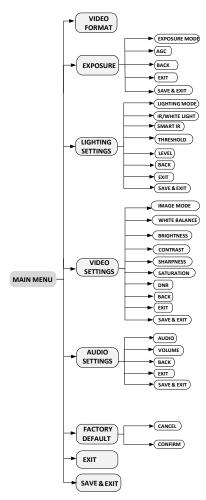


Figure 4-2 Main Menu Overview

- 5. Click the direction buttons to control the camera.
  - Click up/down direction buttons to select menu options.
    - 2). Click Iris + to confirm the selection.
    - Click left/right direction buttons to adjust the value of the selected option.

### 4.2 VIDEO FORMAT

Video formats are available as below.

| Video Output | Video Format                        | Supported<br>Models |
|--------------|-------------------------------------|---------------------|
| TVI          | 3K@20fps<br>4MP@25fps<br>4MP@30fps  | 3K models           |
|              | 2MP@25fps<br>2MP@30fps              | All models          |
| AHD          | 5MP@20fps<br>4MP@25fps<br>4MP@30fps | 3K models           |
|              | 2MP@25fps                           | 2MP models          |

|      | 2MP@30fps |            |
|------|-----------|------------|
| CVI  | 4MP@25fps | 3K models  |
|      | 4MP@30fps |            |
|      | 2MP@25fps | 2MP models |
|      | 2MP@30fps |            |
| CVBS | PAL       | All models |
|      | NTSC      |            |

### 4.3 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 over-exposure of the background where the light is strong.

### HLC (Highlight Compensation)

HLC stands for highlight compensation. The camera detects strong spots (over-exposure portion of image) and reduces the brightness of 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.

### 4.4 LIGHTING SETTINGS

### LIGHTING MODE

IR and WHITE LIGHT are available.

### ➤ IR

### 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.

### WHITE LIGHT

Under the **WHITE LIGHT** sub-menu, you can set the mode to **OFF** or **AUTO**.

#### OFF

Set it to OFF to give up this function.

### AUTO

You can set THRESHOLD and LEVEL in this section.

# THRESHOLD

The higher the threshold is, the more sensitive the device is to dark environment.

#### LEVEL

You can adjust the maximum brightness of supplement light.

### 4.5 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 WHITE BALANCE BRIGHTNESS CONTRAST SHARPNESS SATURATION DIN BACK EXIT SAVE & EXIT | *STD *  45 |

Figure 4-3 VIDEO SETTINGS

### IMAGE MODE

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

### 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.

### MANUAL

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

| WHITE BALANCE   |          |
|---|----------|
| MODE<br>R-GAIN<br>B-GAIN<br>BACK<br>EXIT<br>SAVE&EXIT | MANUAL → |

Figure 4-4 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 refers to digital noise reduction. This function reduces noise in video stream.

# 4.6 AUDIO SETTINGS

Under the **AUTO SETTINGS** sub-menu, you can set the mode to **ON** or **OFF**. Adjust the **VOLUME** to a higher value to raise the volume.

### 4.7 FACTORY DEFAULT

Reset all the settings except video format to factory defaults.

# **4.8 EXIT**

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

### 4.9 SAVE & EXIT

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

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