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HIKVISION THC-B159-MS HiLook Series 3K ColorVu Audio Bullet Camera User Manual

THC-B159-MS HiLook Series 3K ColorVu Audio 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:

Type	Model
Type I	THC-B159-MS
Type II	THC-B259-MS

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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

$\mathsf{C}\mathsf{E}$ 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.

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**.

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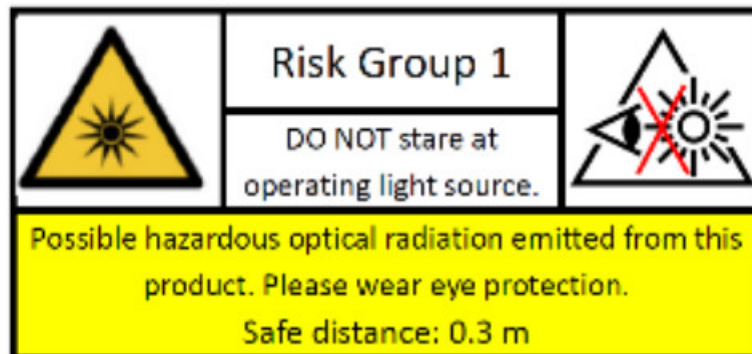
Safety Instruction
These instructions are intended to ensure that users can use the product correctly to avoid danger or property loss.

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
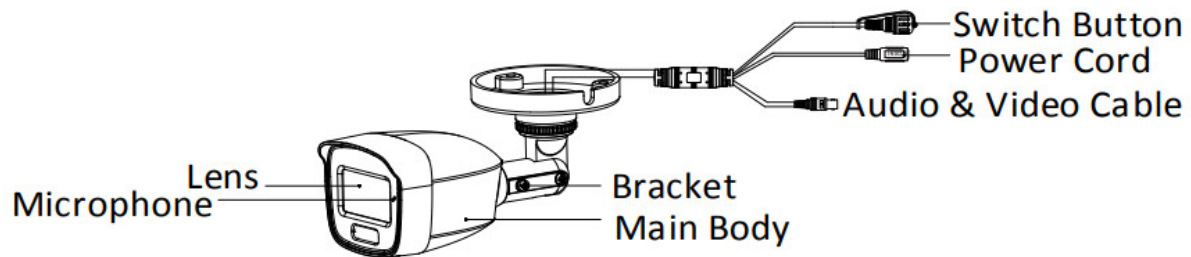

Contents

Introduction

1.1 Product Features
The main features are as follows:

- High-performance CMOS sensor
- Smart light
- 4-in-1 video output
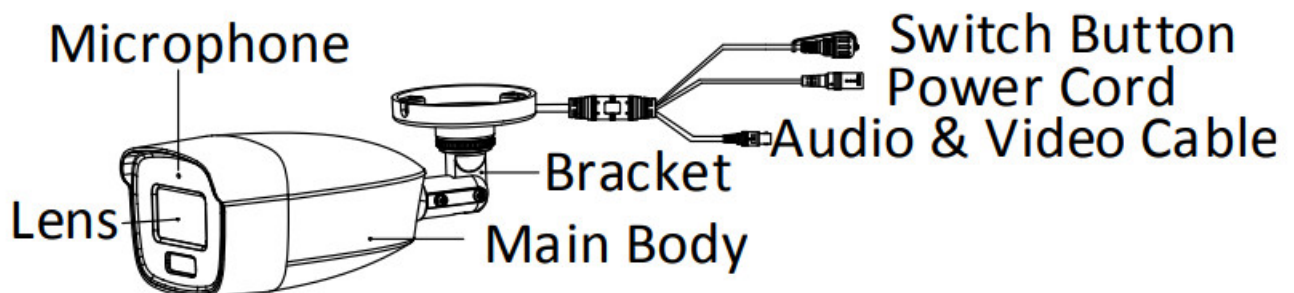- Audio over coaxial cable

1.2 Overview
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.
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.

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 Camera
Ceiling/Wall Mounting without Junction Box Before you start:
The ceiling mounting and wall mounting are similar.
The following steps take ceiling mounting as an example.
Steps:

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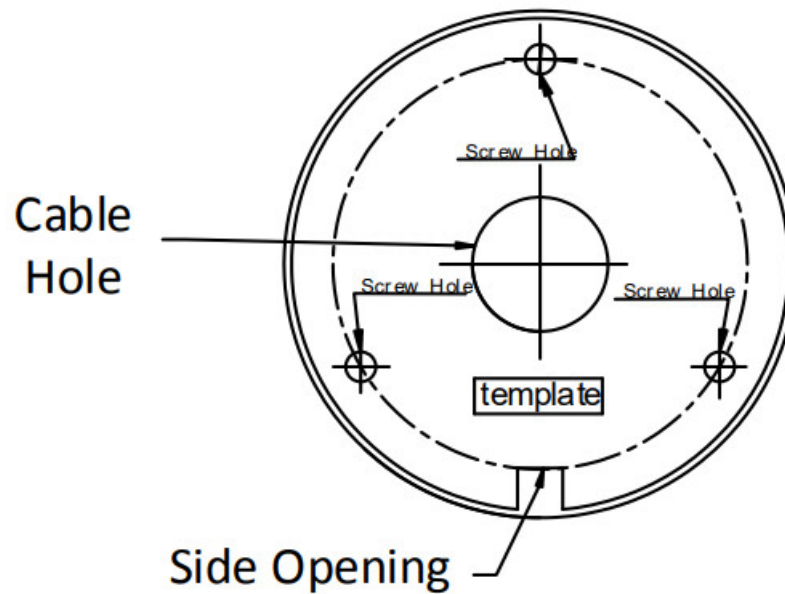

Figure 2-1 Drill Template

3. (Optional) Drill the cable hole, when the cables are routed through the ceiling.
4. Align the screw holes in the bracket to the ceiling, and secure the camera with three PA4 × 25 screws (supplied).
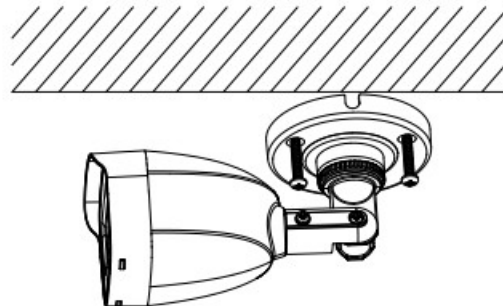
Figure 2-2 Secure the Camera to the Ceiling

5. Connect the cables.
6. 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.
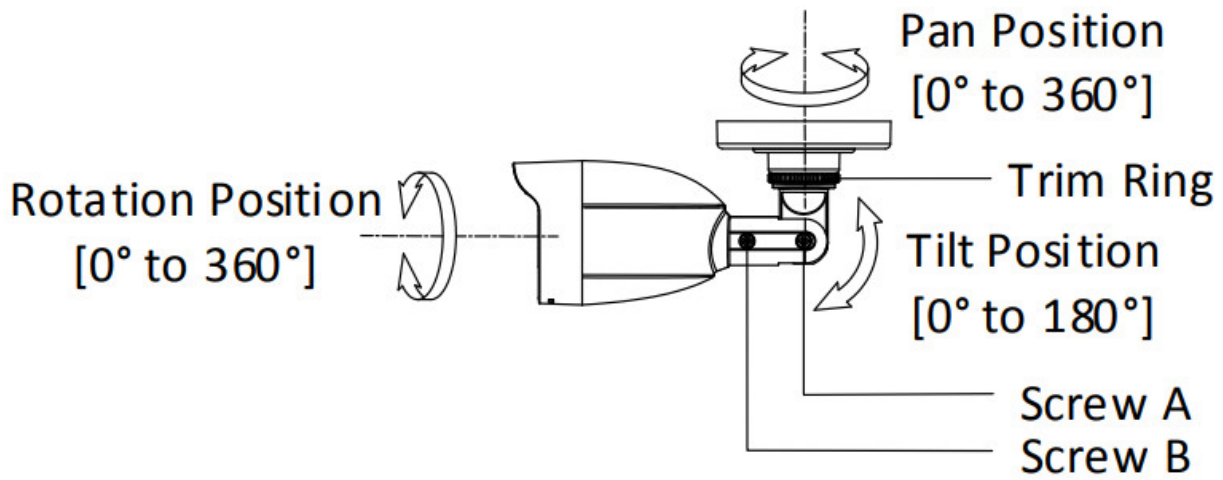
Figure 2-3 3-Axis Adjustment

    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°].

7. Tighten the trim ring and screws to finish the installation.

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.

The following steps take wall mounting as an example. Steps:

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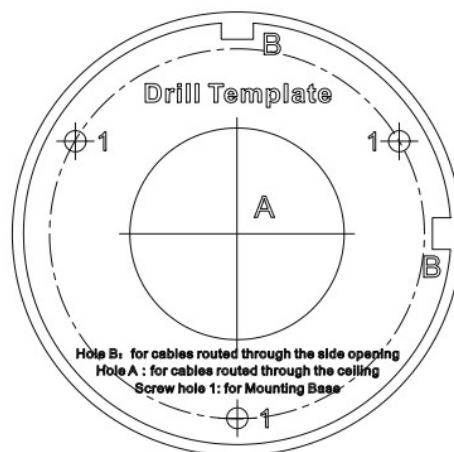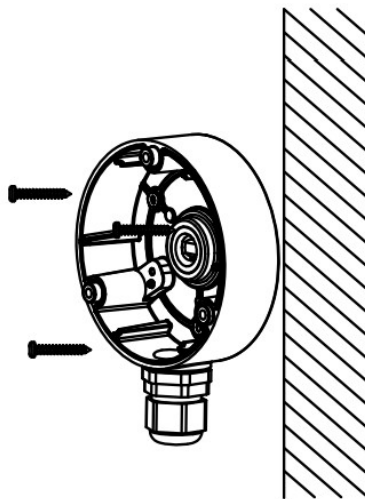

Figure 2-4 Drill Template for Junction Box

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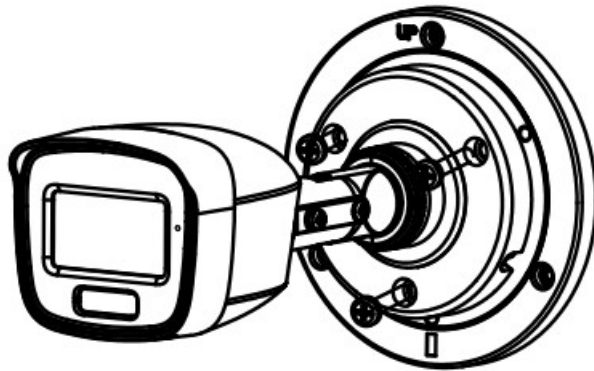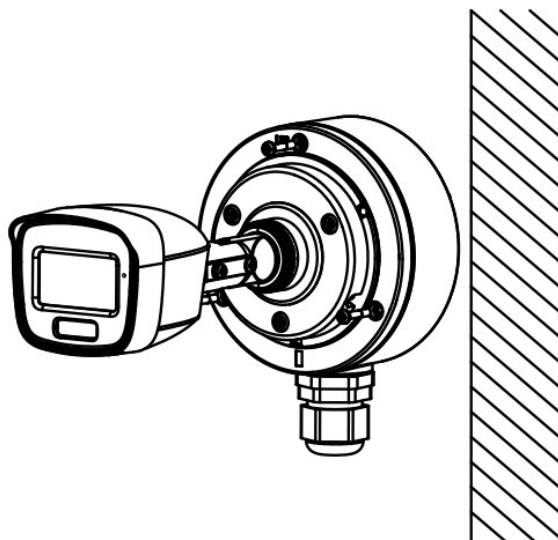
6. Secure the junction box body on the wall with three PA4 × 25 screws (supplied).

Figure 2-6 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 2-7 Fix the Junction Box Cover on Its Body

9. Repeat steps 6 to 7 of 2.1.1 Ceiling/Wall Mounting without Junction Box to finish the installation.

**2.2 Installation of Type II Camera**
Ceiling/Wall Mounting without Junction Box Before you start:
The ceiling mounting and wall mounting are similar.
The following steps take ceiling mounting as an example.
Steps:

1. Paste the drill template (supplied) to the place where you want to install the camera.
2. (Optional) For the cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
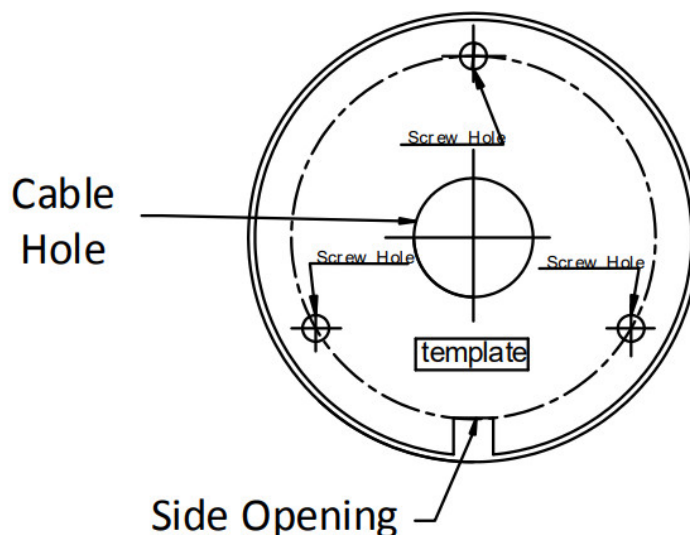
Figure 2-8 Drill Template

3. (Optional) Drill the cable hole, when the cables are routed through the ceiling.
4. Align the screw holes in the bracket to the ceiling, and secure the camera with three PA4 × 25 screws (supplied).
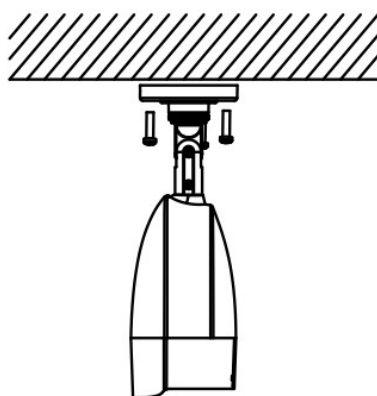
Figure 2-9 Secure the Camera to the Ceiling

5. Connect the cables.
6. 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.
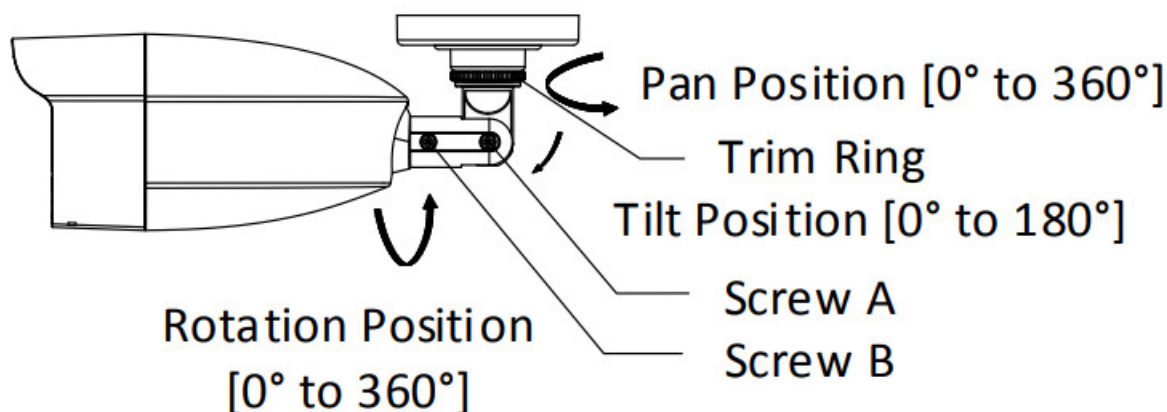
Figure 2-10 3-Axis Adjustment

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°].

7. Tighten the trim ring and screws to finish the installation.

Ceiling/Wall Mounting with Junction Box

Installation of Type II camera with a junction box is similar to that of a type I camera. Refer to 2.1.2 Ceiling/Wall Mounting with Junction Box for details.

Menu Description

Please follow the steps below to call the menu.
Note:
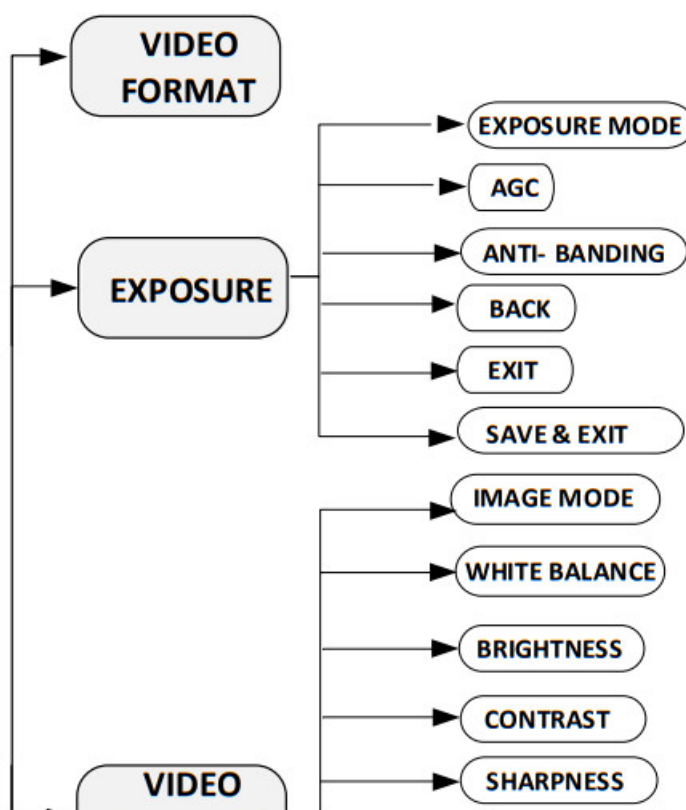The actual display may vary with your camera model.
Steps:

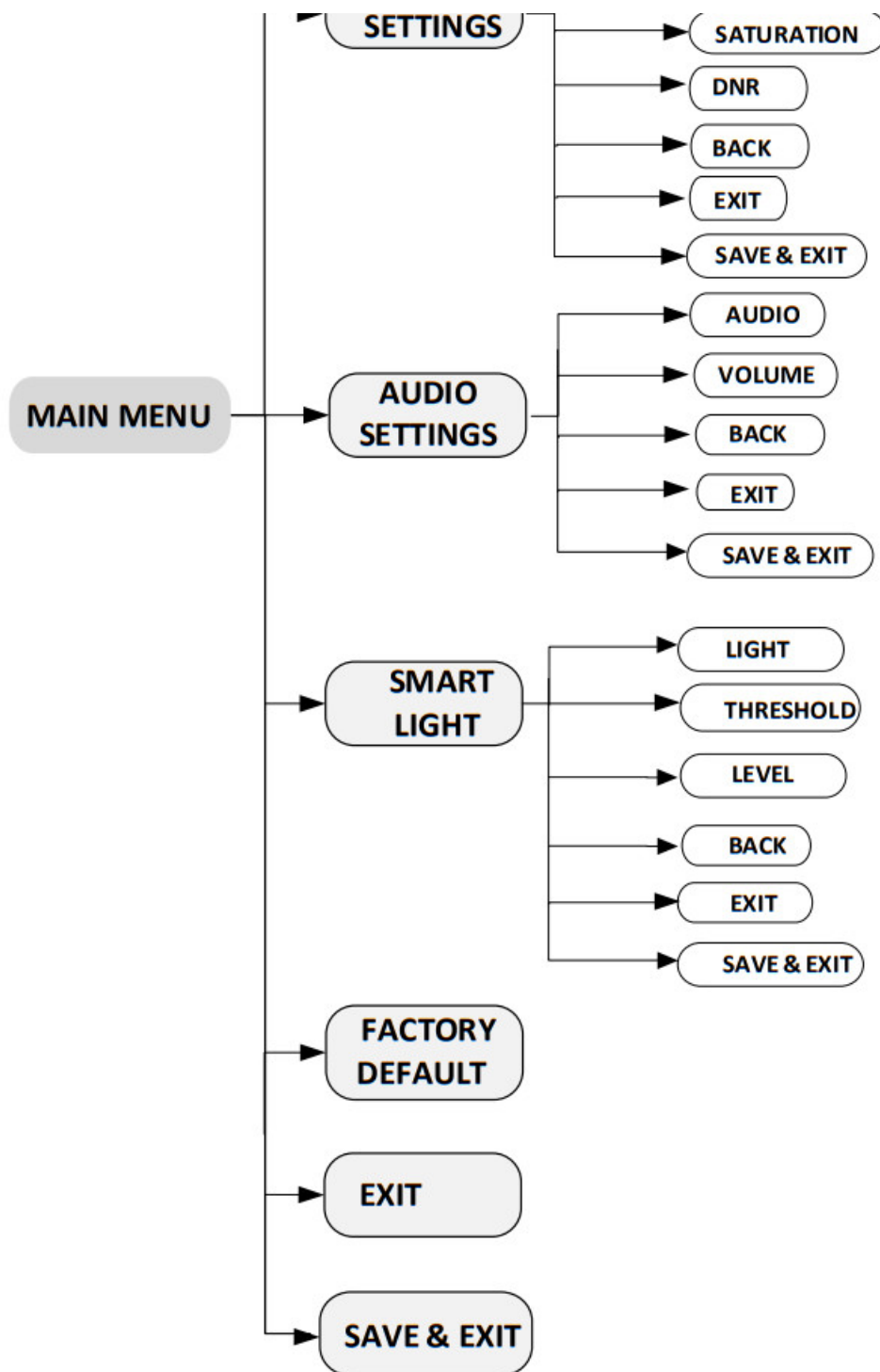1. Connect the camera with the TVI DVR and the monitor, as shown in figure 3-1.
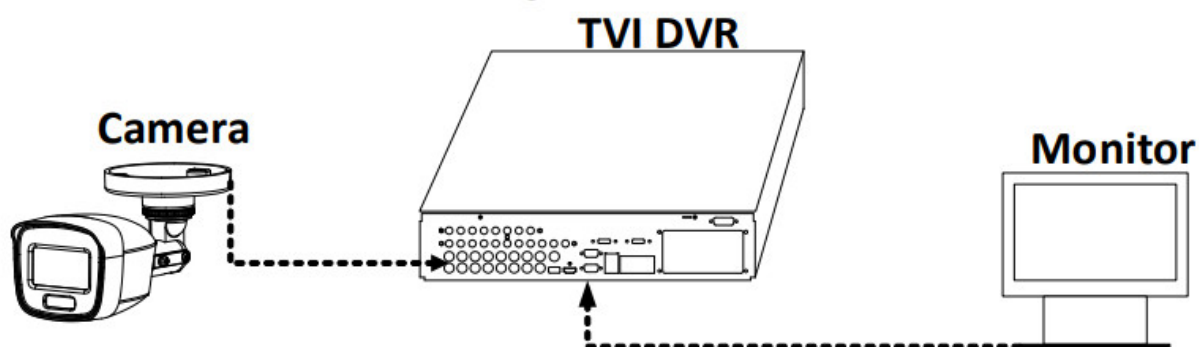
Figure 3-1 Connection

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.

4. Call the camera menu by clicking ⊟ a button or calling preset No. 95.

SETTINGS ──────► SATURATION
          ──────► DNR
          ──────► BACK
          ──────► EXIT
          ──────► SAVE & EXIT

MAIN MENU ──► AUDIO SETTINGS ──────► AUDIO
                              ──────► VOLUME
                              ──────► BACK
                              ──────► EXIT
                              ──────► SAVE & EXIT

SMART LIGHT ──────► LIGHT
            ──────► THRESHOLD
            ──────► LEVEL
            ──────► BACK
            ──────► EXIT
            ──────► SAVE & EXIT

FACTORY DEFAULT

EXIT

SAVE & EXIT

5. Click the direction buttons to control the camera.

1). Click the up/down direction buttons to select menu options.

2). Click Iris + to confirm the selection.

3). Click the left/right direction buttons to adjust the value of the selected option.

3.1 VIDEO FORMAT
Video formats are available as follows:

- When switching the video output to TVI, you can set the video format as 3K@20 fps, 4M@25 fps,4M@30 fps, 2M@25 fps, or 2M@30 fps.
- When switching the video output to CVBS, you can set the video format as PAL, or NTSC.
- When switching the video output to AHD, you can set the video format as 4M@25 fps, or 4M@30 fps.
- When switching the video output to CVI, you can set the video format as 4M@25 fps, or 4M@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 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)**

  The digital wide dynamic range gives the camera the ability to view dark areas of 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.
ANTI-BANDING
ANTI-BANDING is a camera setting that prevents the appearance of horizontal lines (banding) when photographing images in low-frequency light and high-brightness environments.

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.
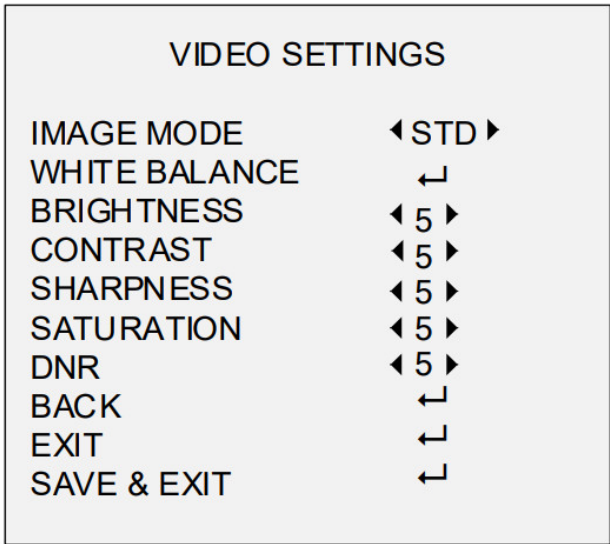
```
              VIDEO SETTINGS

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

Figure 3-3 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.

- **AUTO**

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

- **MANUAL**

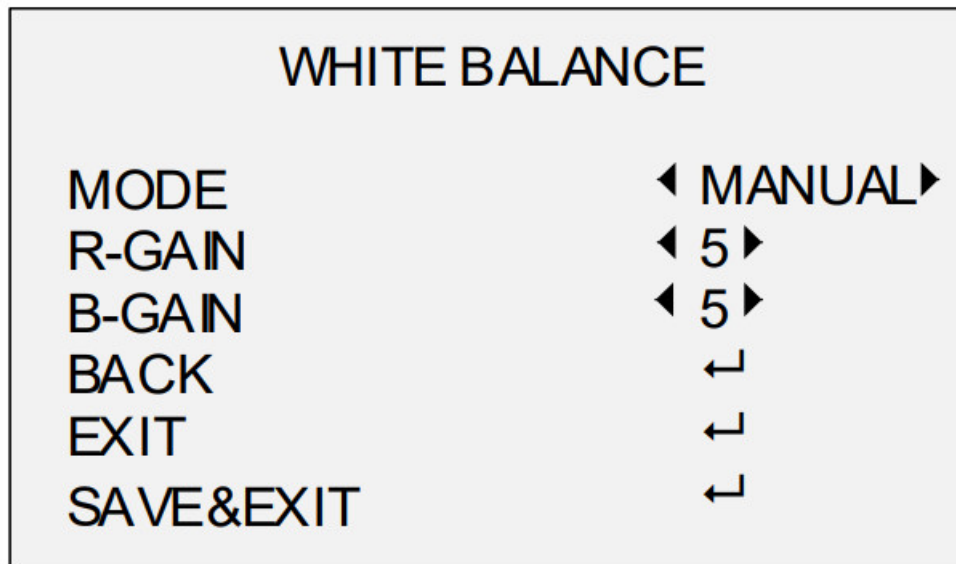 You can adjust the R-GAIN and B-GAIN values to correct colors manually.

Figure 3-4 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 the video stream.

3.4 AUDIO SETTINGS
Under the AUDIO SETTINGS sub-menu, you can set the mode to ON or OFF. Adjust the VOLUME to a higher value to raise the volume.
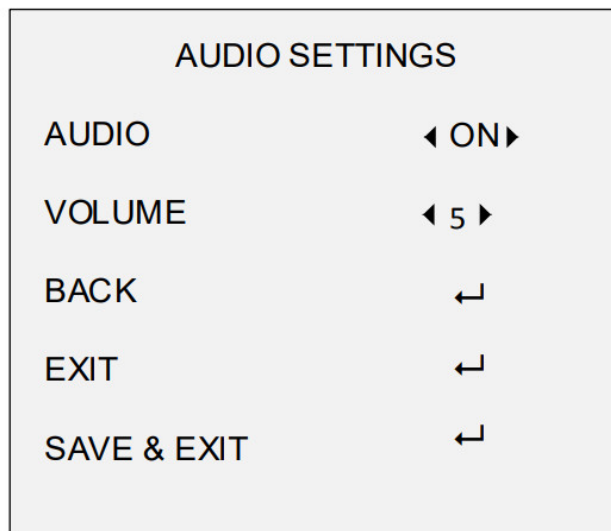**Note:**
Audio settings are only supported in TVI mode.

```
             AUDIO SETTINGS

    AUDIO              ◀ ON▶

    VOLUME             ◀ 5 ▶

    BACK                 ↵

    EXIT                 ↵

    SAVE & EXIT          ↵
```

Figure 3-5 AUDIO SETTINGS

3.5 SMART LIGHT
SMART LIGHT is used to control the integrated white light and avoid overexposure when the light is on. You can set the light as AUTO or OFF.

```
              SMART LIGHT

    LIGHT              ◀ AUTO▶
    THRESHOLD          ◀ 2▶
    LEVEL              ◀ 5▶
    BACK                 ↵
    EXIT                 ↵
    SAVE & EXIT          ↵
```
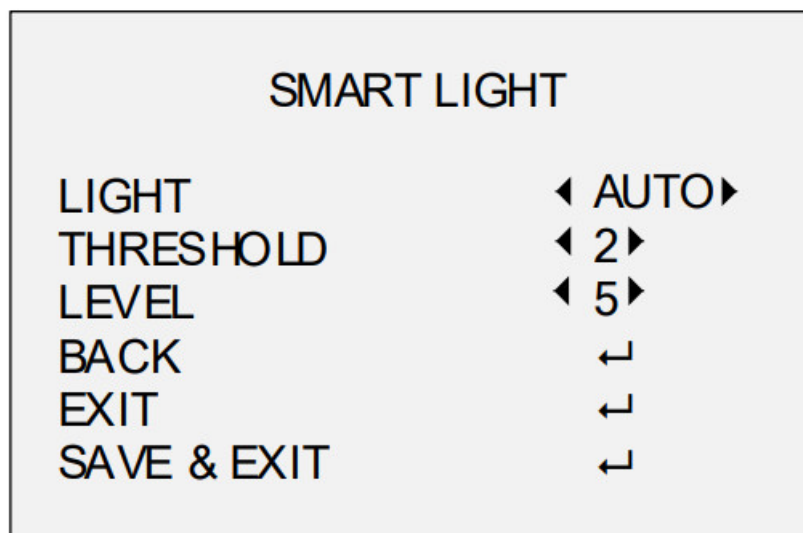
Figure 3-6 SMART LIGHT

- **AUTO**

  Under the AUTO mode, the white light turns on automatically as the environment becomes dark. The THRESHOLD is the environmental light level at which the white light turns on. The greater the value is, the darker the environment should be to activate the light.

  The value of the LEVEL controls the brightness of the white light. The greater the value is, the brighter the light is.

- OFF

  The white light is always off except when the alarm is set and triggered.

3.6 FACTORY DEFAULT
Reset all the settings to factory defaults.
3.7 EXIT
Move the cursor to EXIT and click Iris+ to exit the menu.

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

UD23820B-A

Documents / Resources

HiLook HiLook Series 3K ColorVu Audio Bullet 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 — THC-B159-MS Type II — THC-B259-MS 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. 0101001202 20429	**HIKVISION THC-B159-MS HiLook Series 3K ColorVu Audio Bullet Camera** [pdf] User Manual THC-B159-MS, THC-B259-MS, HiLook Series 3K ColorVu Audio Bullet Camera

References

- **HOME**
- **HOME**
- **Hikvision US | The world's largest video surveillance manufacturer |**