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Hikvision DS-2CE18D0T-LFS Smart Hybrid
Light Audio Fixed Bullet Camera

Hikvision DS-2CE18D0T-LFS Smart Hybrid Light Audio Fixed Bullet Camera User Manual

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Hikvision DS-2CE18D0T-LFS Smart Hybrid Light Audio Fixed 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-2CE18D0T-LFS
    - DS-2CE18K0T-LFS

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.

About this Document

- This Document includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only.
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Regulatory Information

EU Compliance 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 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.

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 product, 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 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.
- 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

- 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 floor/wall by 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 environments.
- 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 a 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 (0.6 m) or in an area that is not directly exposed to the light when installing or maintaining the device.
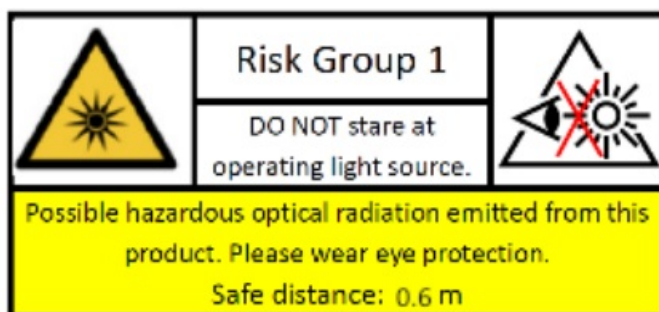
Introduction

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

Overview
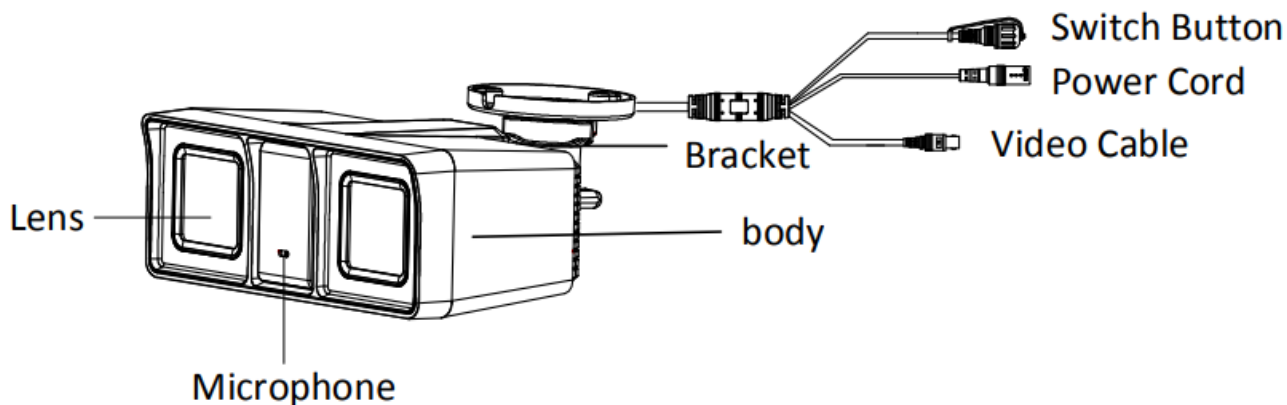
Figure 1-1 Overview of Camera

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 powered 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.

Installation of Camera

Ceiling/Wall Mounting Steps

1. Paste the drill template (supplied) to the installation location.
2. (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.
4. Secure the camera to ceiling with three PA4 × 25 screws (supplied).
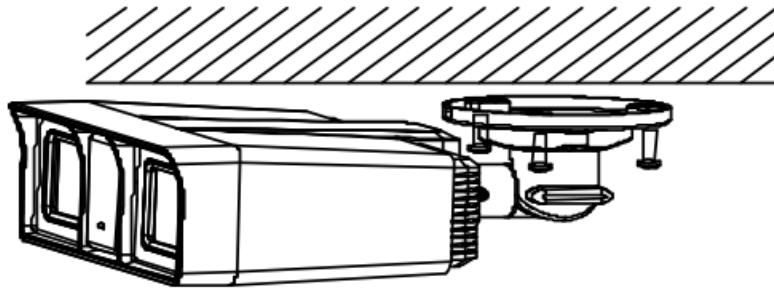
Figure 2-1 Secure the Camera to the Ceiling

5. Connect the cables.
6. Power on the camera to adjust the view angle according to the figure below.
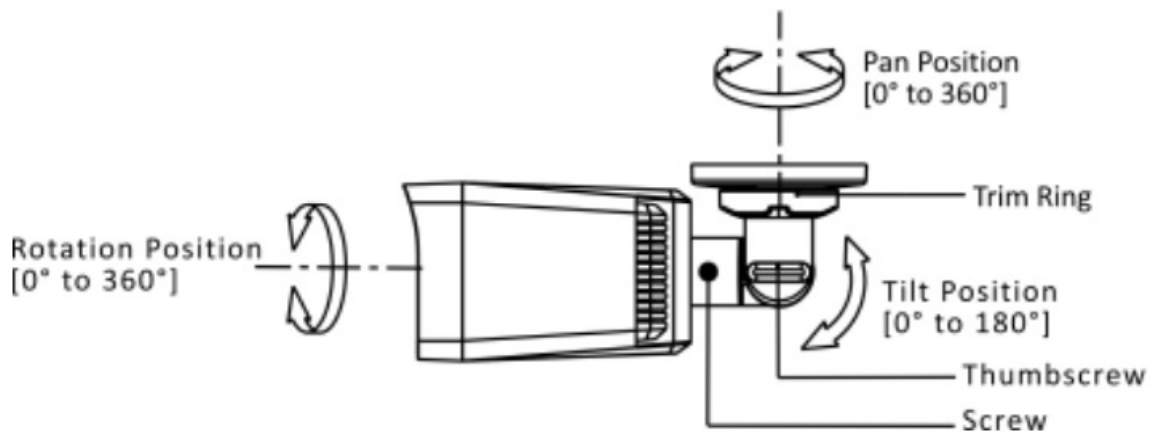
Figure 2-2 3-Axis Adjustment

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.
2. (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.
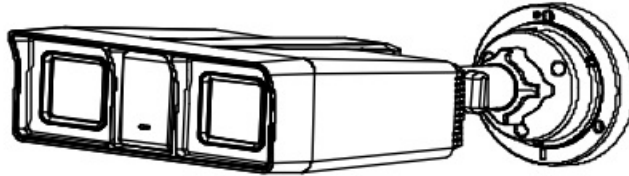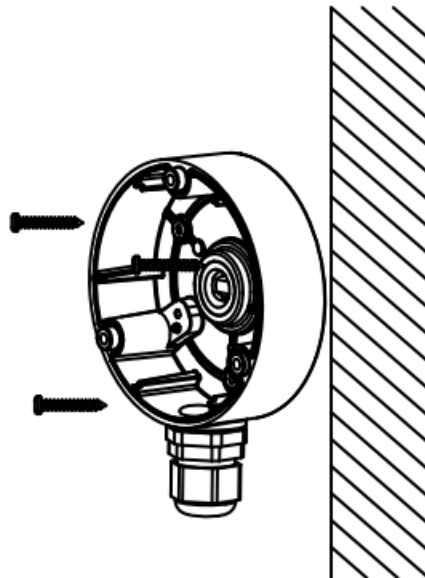5. Fix the camera to the junction box cover with three PM4 × 10 screws.

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

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

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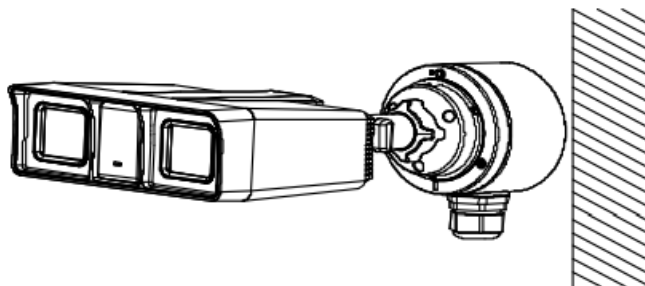8. Fix the junction box cover on its body with three PM3 × 16 L6 screws.

Figure 2-5 Fix the Cover to Its Body

9. Refer to Step 6 of 2.1.1 Ceiling/Wall Mounting to finish installation.

Wall Mounting with Wall Mount

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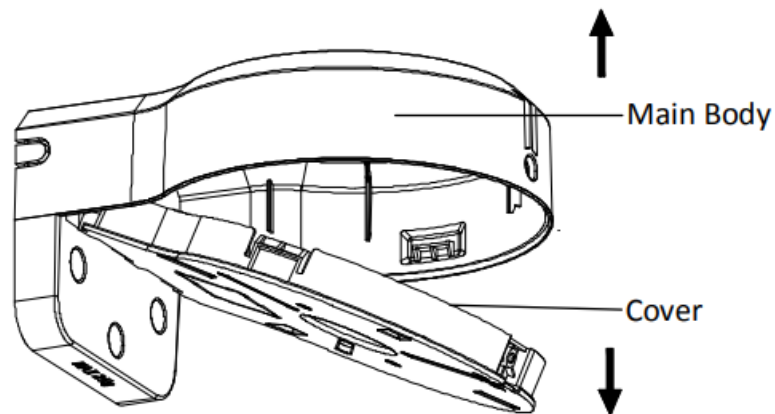
Steps

1. Take apart the wall mount.

Figure 2-6 Take Apart Wall Mount

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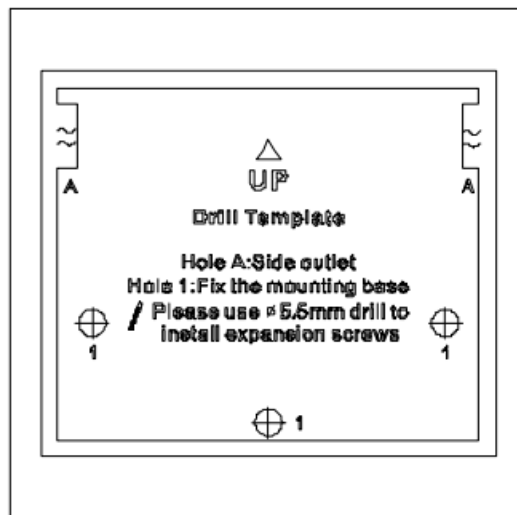3. Drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.

Figure 2-7 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).
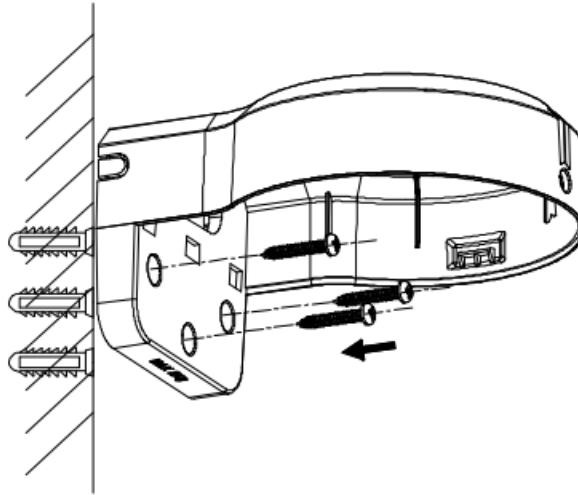
Figure 2-8 Secure Main Body to Wall

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.
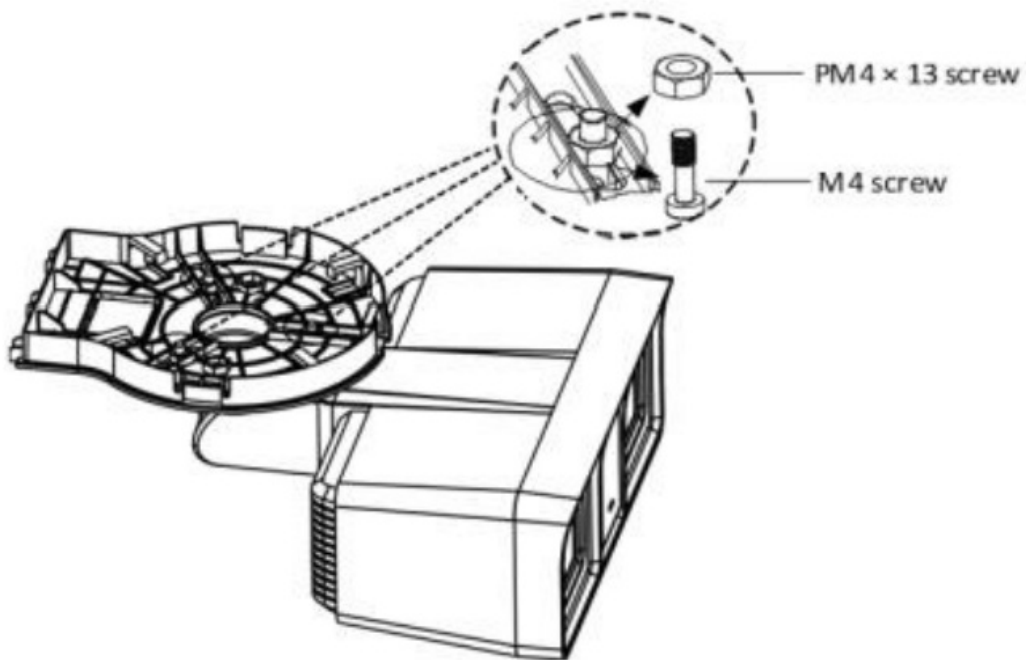

Figure 2-9 Secure Camera to Wall Mount Cover

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.
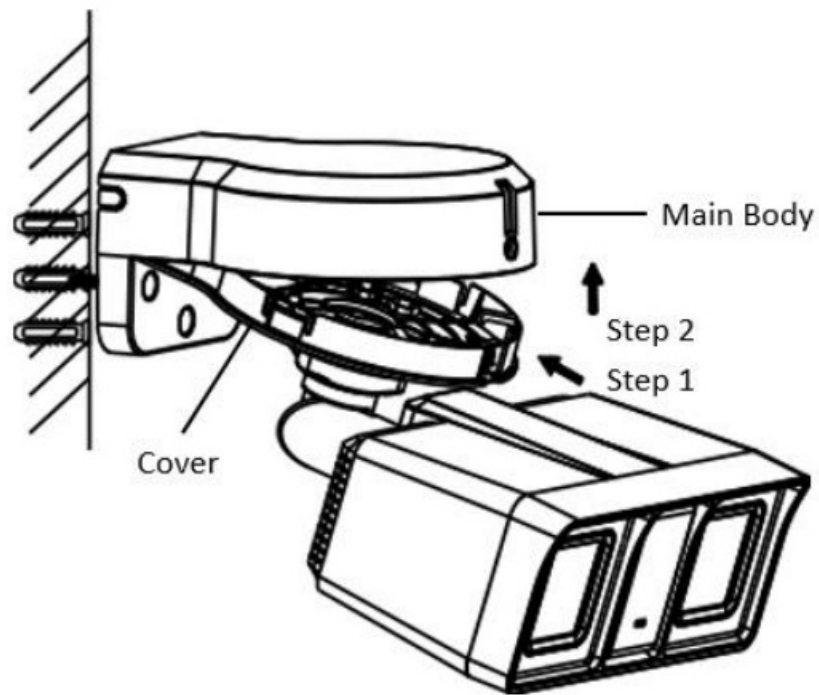
Figure 2-10 Secure Cover to Body

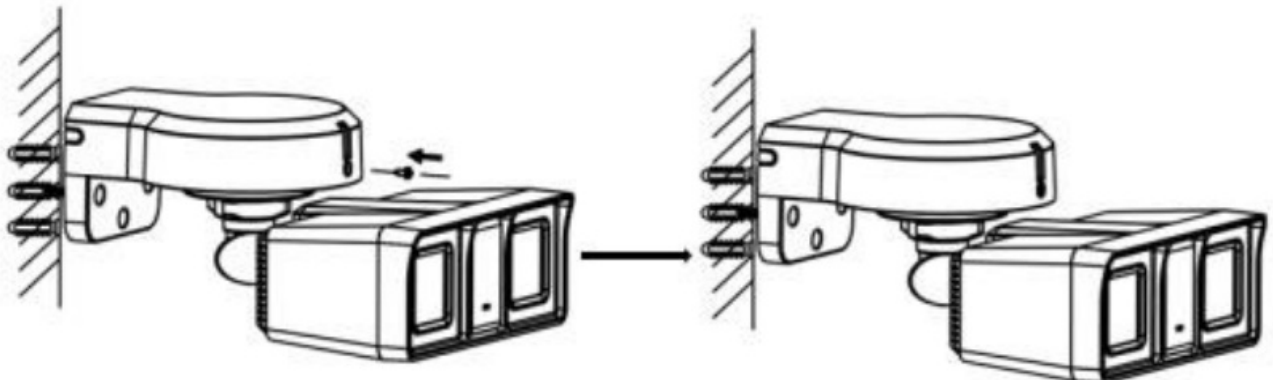9. Lock the cover to the body with one PA3 × 8 screw.

Figure 2-11 Lock Cover to Body

10. Repeat steps 4 to 6 of 2.1.1 Ceiling/Wall Mounting to adjust the angle and 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

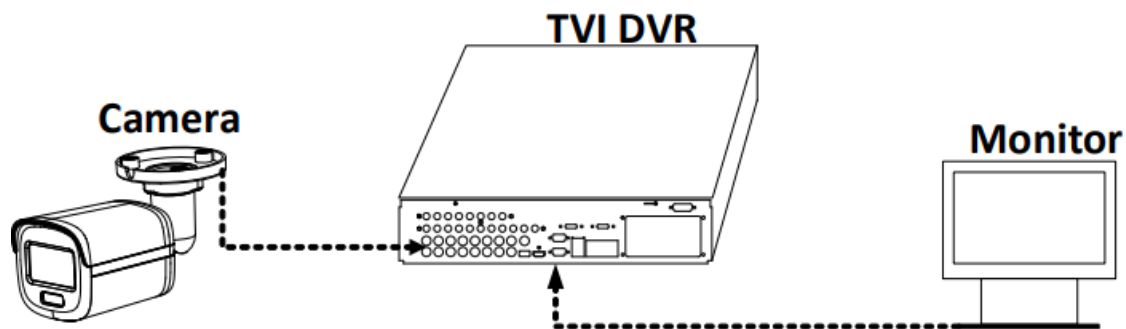1. Connect the camera with the TVI DVR and the monitor, as shown in Figure 3-1.
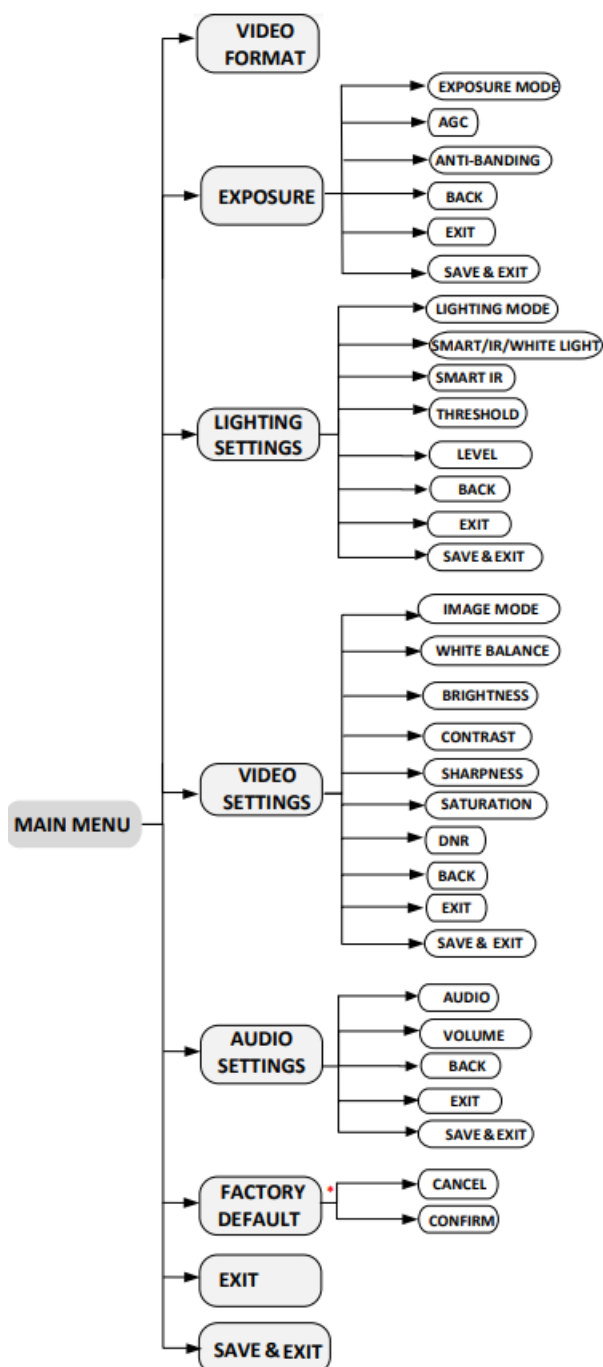
Figure 3-1 Connection

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 ▤ button or calling preset No. 95.

5. Click the direction buttons to control the camera.

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

2. Click Iris + to confirm the selection.

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

VIDEO FORMAT

Model	Video Output	Video Format
DS-2CE18D0T- LFS	TVI, AHD, CVI, CVBS	2 MP@25 fps 2 MP@30 fps PAL NTSC
DS-2CE18K0T- LFS	TVI	3K@20 fps 4 MP@25 fps 4 MP@30 fps 2 MP@25 fps 2 MP@30 fps
	AHD	5 MP@20 fps 4 MP@25 fps 4 MP@30 fps
	CVI	4 MP@25 fps 4 MP@30 fps
	CVBS	PAL NTSC

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.

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.

LIGHTING SETTINGS

LIGHTING MODE

WHITE LIGHT, IR and SMART are available.

Note:

The alarm function is only supported in SMART mode.

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 the dark environment.

LEVEL

You can adjust the maximum brightness of the supplement light.

- SMART/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 overexposure.

- 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.

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.
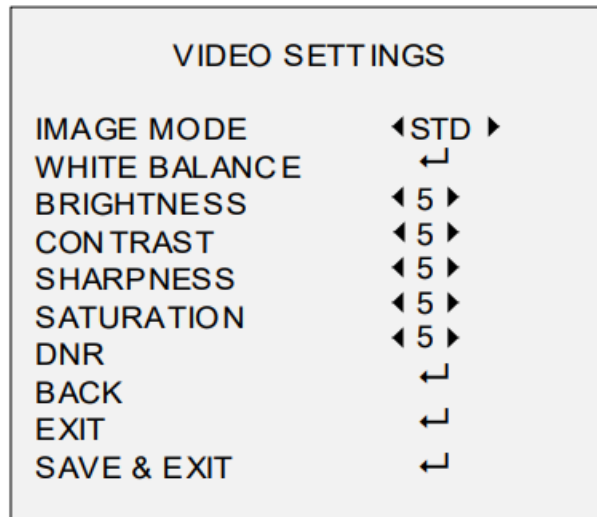

Figure 3-3 VIDEO SETTINGS

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.

MANUAL

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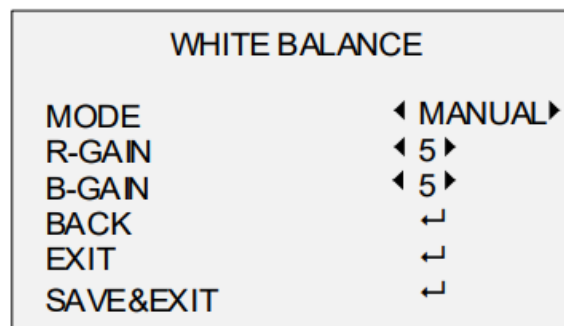

Figure 3-4 WHITE BALANCE

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 video streams.

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.

FACTORY DEFAULT

Reset all the settings except video format and signal to factory defaults.

EXIT

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

SAVE & EXIT

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

Documents / Resources

Hikvision DS-2CE18D0T-LFS Smart Hybrid Light Audio Fixed Bullet Camera [pdf] User Manual
DS-2CE18D0T-LFS Smart Hybrid Light Audio Fixed Bullet Camera, DS-2CE18D0T-LFS, Smart Hybrid Light Audio Fixed Bullet Camera, Light Audio Fixed Bullet Camera, Audio Fixed Bullet Camera, Fixed Bullet Camera, Bullet Camera, Camera

References

- **HOME**
- **Hikvision USA - Leading the future of AIoT**
- **Hikvision UK & Ireland - Leading the future of AIoT**
- **User Manual**