

HIKVISION



HD Fisheye Camera

User Manual

UD01467B

www.hikvision.com

User Manual

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

This manual applies to the model **DS-2CC52H1T-FITS**.

This manual may contain several technical incorrect places 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.

Privacy Notice

Surveillance laws vary by jurisdiction. Check all relevant laws in your jurisdiction before using all this product for surveillance purpose to ensure that your use of this product conforms.

Regulatory Information

FCC Information

FCC compliance: This equipment has been tested and found to comply with the limits for 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.



2002/96/EC (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.

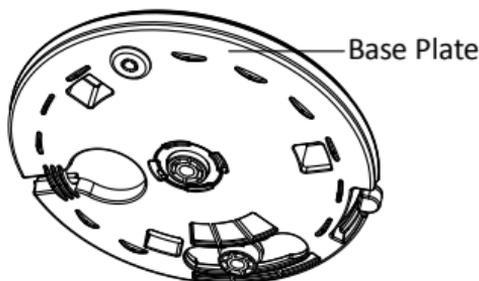
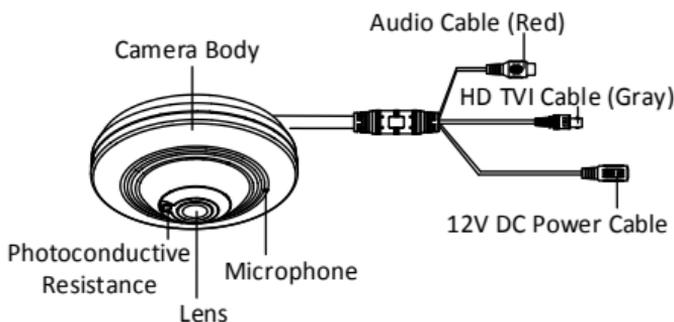
1 Introduction

1.1 Product Features

This series of camera adopts high performance sensor and advanced circuit board design technology. It features high resolution, low distortion, and low noise, etc. It is suitable for surveillance system and image process system.

- 5 Megapixel high-performance CMOS
- HD TVI output, up to 5Mega resolution
- 0.01Lux @ (F1.2,AGC ON), 0 Lux with IR
- IR cut filter with auto switch
- OSD menu
- Built-in microphone, 1-ch audio output

1.2 Overview



2 Installation

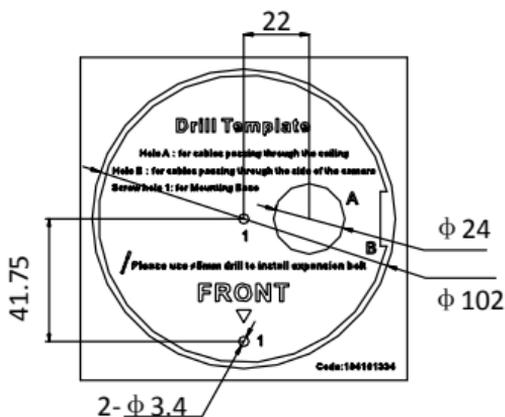
Before you start:

- Please 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 required output to avoid damage.
- Please make sure the wall is strong enough to withstand three times the weight of the camera and the mounting.
- If the wall is the cement wall, you need to insert expansion screws before you install the camera. If the wall is the wooden wall, you can use self-tapping screw to secure the camera.
- If the product does not function properly, please contact your dealer or the nearest service center. Do not disassemble the camera for repair or maintenance by yourself.

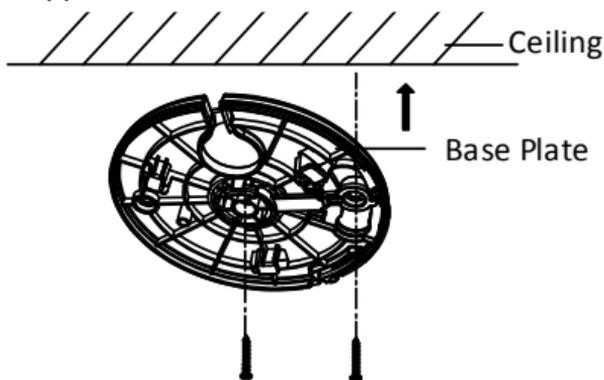
2.1 Ceiling Mounting

Steps:

1. Drill two screw holes and the cable hole according to the supplied drill template.



- Align the screw holes and cable hole on the drill template and the base plate, and then fix the base plate to the ceiling with the two supplied screws.

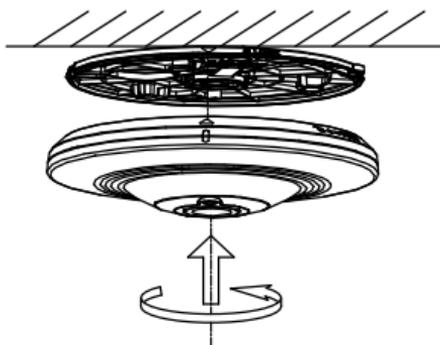


Notes:

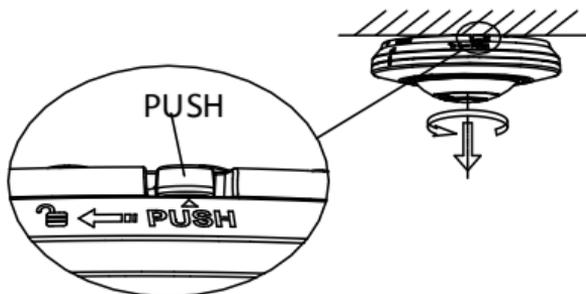
- For cement wall, you need to use the expansion screw to fix the mount.
 - For wooden wall, you can just use the self-tapping screw to fix the mount.
- Route the cables through the cable hole or the side opening according to the actual needs, and connect the corresponding

cables including power cable, network cable, audio and alarm cables, etc.

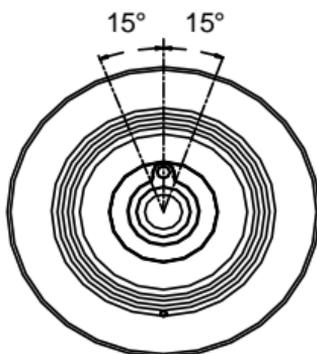
4. Align the triangle mark on the camera and base plate, and then rotate the camera clockwise until it is locked up by the three bayonet joints on the base plate.



5. To disassemble the camera: Press the **Push** button on the base plate, rotate the camera anticlockwise, and then you can remove the camera from the base plate.



6. To adjust the view angle: Rotate the camera body clockwise or anticlockwise with the base plate, and then you can adjust the camera to the desired view angle.



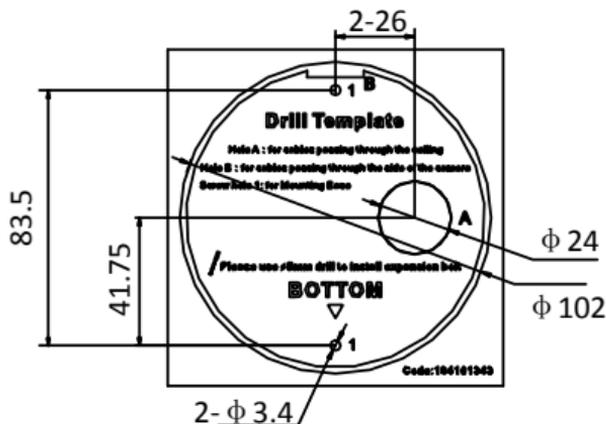
2.2 Wall Mounting with a Slant Mounting Base

Before you start:

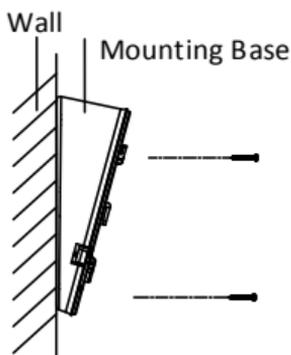
You need to purchase a slant mounting base separately if this mounting method is selected.

Steps:

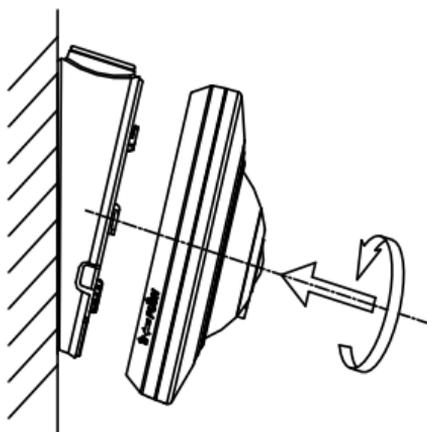
1. Drill two screw holes and the cable hole according to the supplied drill template.



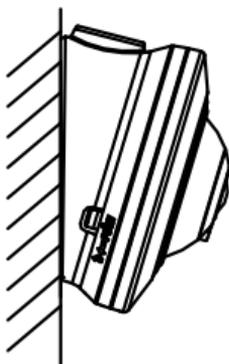
2. Fix the slant mounting base to the wall with the screws.



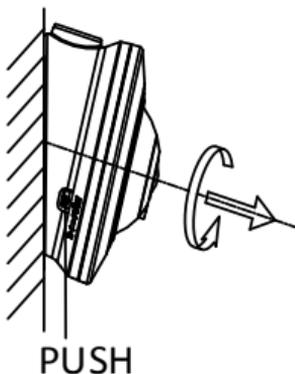
3. Align the screw holes on the slant mounting base and the base plate, and then secure the base plate on the slant mounting base with the two supplied screws.
4. Route the cables through the cable hole or the side opening according to the actual needs, and connect the corresponding cables including power cable, network cable, audio and alarm cables, etc.
5. Align the triangle mark on the camera and mounting base, and then rotate the camera clockwise until it is locked up.



6. The installation is complete.



7. To disassemble the camera: Press the **Push** button on the base plate, rotate the camera anticlockwise, and then you can remove the camera from the base plate.



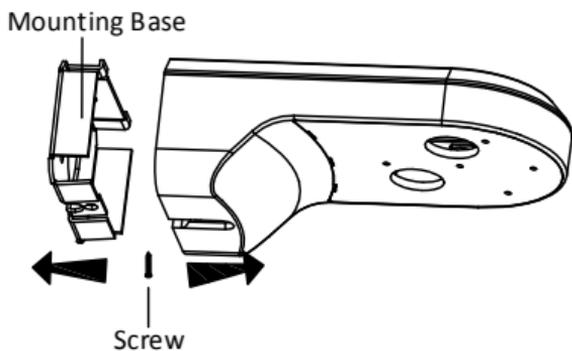
2.3 Wall Mounting with a Bracket

Before you start:

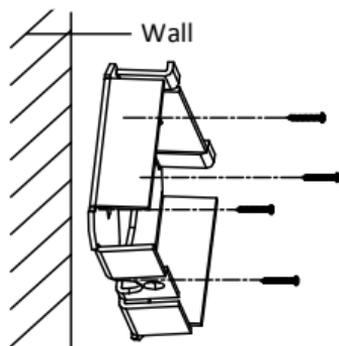
You need to purchase the bracket separately if this mounting method is selected.

Steps:

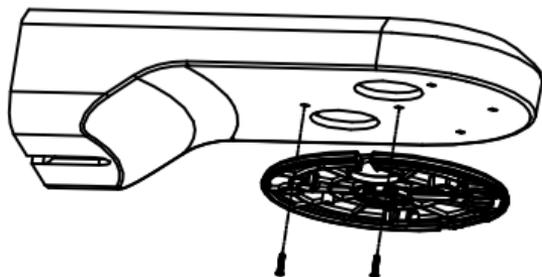
1. Unfasten and remove the screw marked in the figure, and then disassemble the bracket.



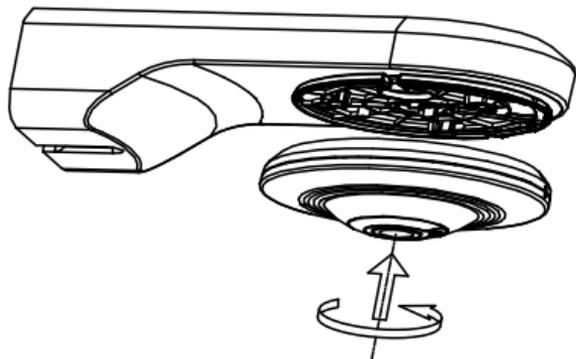
2. Fix the mounting base to the wall with the screws.



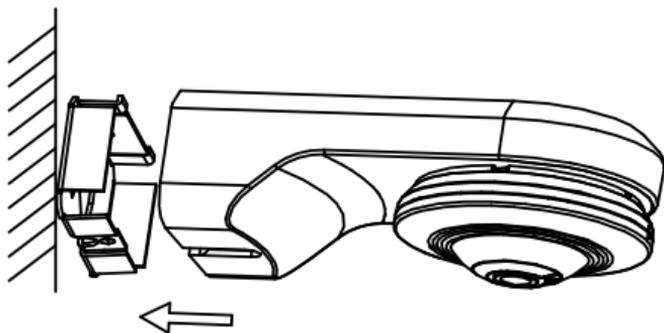
3. Align the screw holes on the bracket and the base plate, and then secure the base plate on the bracket with the two supplied screws.



4. Route the cables through the cable hole according to the actual needs, and connect the corresponding cables including power cable, network cable, audio and alarm cables, etc.
5. Align the triangle mark on the camera and base plate, and then rotate the camera clockwise until it is locked up by the three bayonet joints on the base plate.



6. Re-install the main body of the bracket to the mounting base, and fix it with the screw.



7. To disassemble the camera, refer to the *Step 5 in Section 2.1*.
8. To adjust the view angle, refer to the *Step 6 in Section 2.1*.

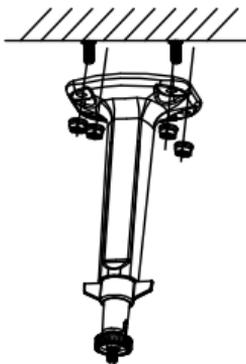
2.4 Pendant Mounting with a Bracket

Before you start:

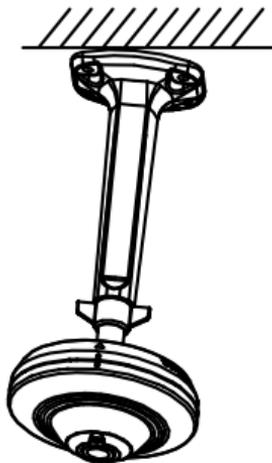
You have to purchase the bracket separately if this mounting method is selected.

Steps:

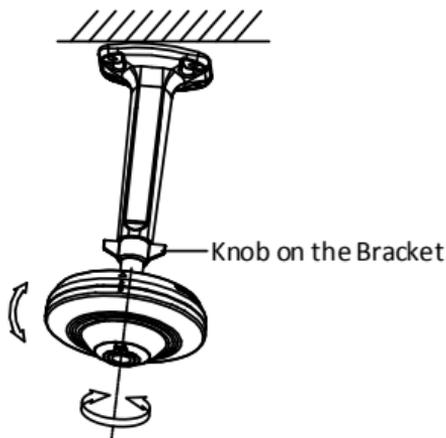
1. Fix the pendant bracket to the wall with the supplied M6×65 screws.



2. Aim the screwed hole on the camera at the top of the pendant bracket, and then rotate the camera until it is secured tightly.

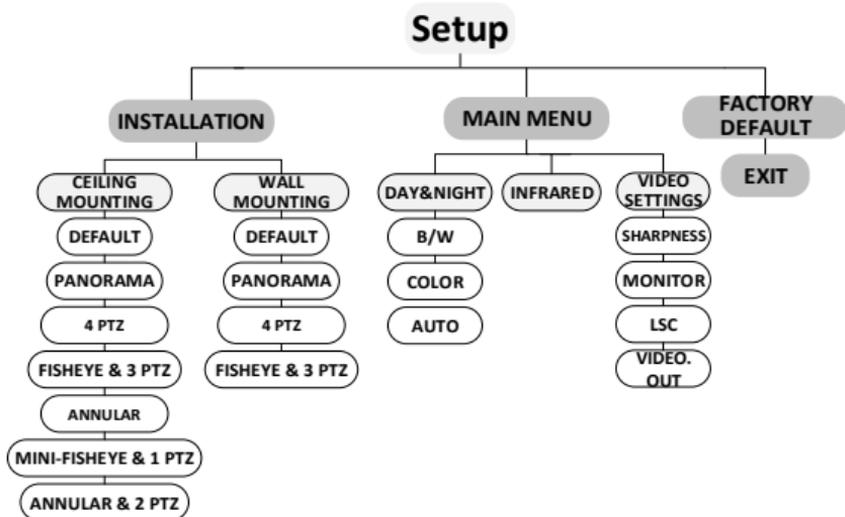


3. Loosen the knob on the bracket and adjust the camera body to get the desired surveillance angle. Tighten the knob on bracket to secure the camera.



3 Operation

3.1 Menu Description



Notes:

- With a camera controller (purchased separately) or calling the preset **No. 95** of DVR you can select the menu and adjust the parameters.
- Move the cursor up/down/left/right with PTZ control panel to select the menu item.
- Press the **OK** key or click **Iris+** to confirm a selection.

3.2 INSTALLATION

The installation allows user to select different working environments. If the camera is parallel to the ground, select ceiling mounting as installation mode. If the camera is vertical to the ground, select wall mounting as installation mode.

3.2.1 Ceiling Mounting

Ceiling mounting includes **DEFAULT**, **PANORAMA**, **4 PTZ**, **FISHEYE & 3 PTZ**, **ANNULAR**, **MINI-FISHEYE & 1 PTZ**, and **ANNULAR & 2 PTZ**.



Notes:

Any scene mode will be saved after being selected. The scene mode will be the same once the device is powered off.

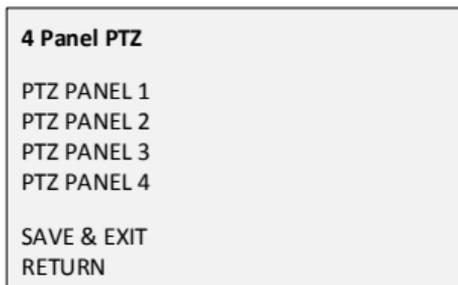
DEFAULT

Select **DEFAULT** to play live view in original view.

PANORAMA

Select **PANORAMA** to play live view after dewrapping.

4 PTZ



Select **4 PTZ** to play live view in 4 PTZ panel mode.

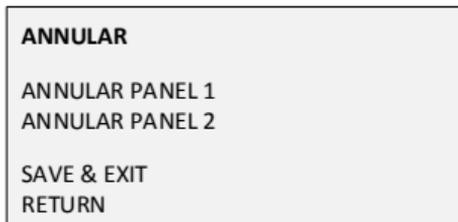
Move the cursor to select the PTZ panel to adjust and confirm.

Click **up-left** or **up-right** to rotate the PTZ panel. Click Zoom +/- to zoom in/out the image.

FISHEYE & 3 PTZ

Select **FISHEYE & 3 PTZ** to play live view in one fisheye view and 3 PTZ panel mode.

ANNULAR



Select **ANNULAR** to play live view in two annular panels of after-dewrapping image.

MINI-FISHEYE & 1 PTZ

Select **DEFAULT** to play live view in one fisheye mode and one PTZ panel view.

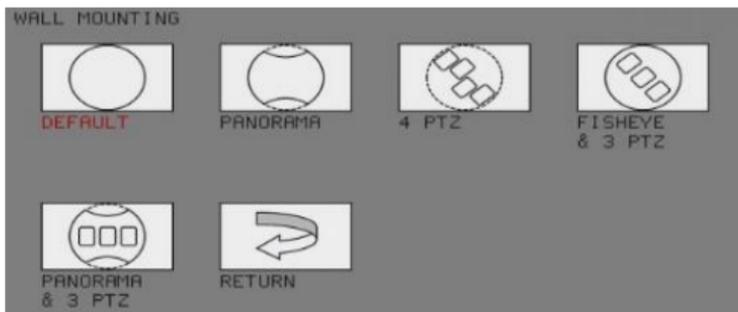
You can control the PTZ of the PTZ panel view.

ANNULAR & 2 PTZ

Select **ANNULAR** to play live view in one annular panels of after-dewrapping image and two PTZ panel views.

3.2.2 Wall Mounting

Wall mounting includes **DEFAULT**, **PANORAMA**, **4PTZ**, and **FISHEYE & 3 PTZ**.



DEFAULT

Select **DEFAULT** to play live view in original view.

PANORAMA

Select **PANORAMA** to play live view after dewrapping.

4 PTZ

Select **4 PTZ** to play live view in 4 PTZ panel mode.

Move the cursor to select the PTZ panel to adjust and confirm. Click **up-left** or **up-right** to rotate the PTZ panel. Click Zoom +/- to zoom in/out the image.

FISHEYE & 3 PTZ

Select **FISHEYE & 3 PTZ** to play live view in one fisheye view and 3 PTZ panel mode.

3.3 MAIN MENU

3.3.1 DAY & NIGHT

Select **DAY/NIGHT** mode from **AUTO/ COLOR/ BW**.

| | |
|------------------|---------------|
| MAIN MENU | |
| DAY & NIGHT | AUTO/COLOR/BW |
| INFRARED | ON/OFF |
| VIDEO SETTING | |
| RESET MAIN MENU | |
| SAVE & EXIT | |
| RETURN | |

AUTO

The image switches between color mode and black/white mode automatically.

COLOR

The image is colored in day mode all the time.

B/W

The image is black and white all the time.

3.3.2 INFRARED

Turn on/off the INFRARED by moving the cursor.

3.3.3 VIDEO SETTING

| | |
|---------------|----|
| VIDEO SETTING | |
| BRIGHTNESS | 50 |
| CONTRAST | 50 |
| SATURATION | 50 |
| RETURN | |

BRIGHTNESS

This feature is used to adjust brightness of the image. The value ranges from 0 to 100.

CONTRAST

This feature enhances the difference in color and light between parts of an image. The value ranges from 0 to 100.

SATURATION

This feature is used to adjust color saturation of the image. The value ranges from 0 to 100.

3.3.4 RESET MAIN MENU

Select **RESET MAIN MENU** to reset all parameters of main menu to the default value.

3.3.5 SAVE & EXIT

Select **SAVE & EXIT** to save the settings and exit the menu.

3.4 FACTORY DEFAULT

Select **RESET MAIN MENU** to reset all settings of camera to the default value.

3.5 EXIT

Select **EXIT** to exit the menu.

First Choice for Security Professionals