

Network Ceiling Microphone

Quick Start Guide

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.
- The information contained in the Document is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of the Document at the Hikvision website (*https://www.hikvision.com*). Unless otherwise agreed, Hangzhou Hikvision Digital Technology Co., Ltd. or its affiliates (hereinafter referred to as "Hikvision") makes no warranties, express or implied.
- Please use the Document with the guidance and assistance of professionals trained in supporting the Product.

About this Product

This product can only enjoy the after-sales service support in the country or region where the purchase is made.

Acknowledgment of Intellectual Property Rights

- Hikvision owns the copyrights and/or patents related to the technology embodied in the Products described in this Document, which may include licenses obtained from third parties.
- Any part of the Document, including text, pictures, graphics, etc., belongs to Hikvision. No part of this Document may be excerpted, copied, translated, or modified in whole or in part by any means without written permission.
- HIKVISION and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions.
- Other trademarks and logos mentioned are the properties of their respective owners.

LEGAL DISCLAIMER

- TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS DOCUMENT AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKVISION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL HIKVISION BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR

INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.

- YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND HIKVISION SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.
- YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.
- IN THE EVENT OF ANY CONFLICTS BETWEEN THIS DOCUMENT AND THE APPLICABLE LAW, THE LATTER PREVAILS.

© Hangzhou Hikvision Digital Technology Co., Ltd. All rights reserved.

Regulatory Information

These clauses apply only to the products bearing the corresponding mark or information.

FCC Information

Note: 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.

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.

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, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

EU/UK Compliance Statement

CE 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.

The full text of the EU declaration of conformity is available at the following internet address: https://www.hikvision.com/en/support/compliance/declaration-of-conformity.

UK CA This product and - if applicable - the supplied accessories too are marked with "UKCA" and comply therefore with the following directives: Electromagnetic Compatibility Regulations 2016, Electrical Equipment (Safety) Regulations 2016, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

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.



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.

According to the Waste Electrical and Electronic Equipment Regulations 2013: Products marked with this symbol cannot be disposed of as unsorted municipal waste in the United Kingdom. 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.



Regulation (EU) 2023/1542(Battery Regulation): This product contains a battery and it is in conformity with the Regulation (EU) 2023/1542. The battery 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), or lead (Pb). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

According to the Batteries and Accumulators (Placing on the Market) Regulations 2008 and the Waste Batteries and Accumulators Regulations 2009: This product contains a battery that cannot be disposed of as unsorted municipal waste in the United Kingdom. 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-003 (A) / NMB-003 (A) standards requirements.

Conformité Industrie Canada ICES-003

Cette appareil répond aux exigences des normes CAN ICES-003 (A) / NMB-003 (A).

KC

A 급 기기: 이 기기는 가정용(A 급) 전자파적합기기로써 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

Safety Information

Please read all the safety information carefully before using.

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Device powered by Safety Extra-Low Voltage (SELV): The power source should meet limited power source or PS2 requirements according to IEC 60950-1 or IEC 62368-1 standard.
- For the device powered on and off only by power plug and socket-outlet, the socket-outlet shall be installed near the device and easily accessible.
- This equipment shall be installed incorporated with UPS to avoid the risk of restart.
- Use the power adapter that can work normally at an altitude over 2000 meters above sea level.
- Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
- Dispose of used batteries according to the instructions.
- For the device with sticker  or 

, pay attention to the following cautions:
  CAUTION: Hot parts! Do not touch. Burned fingers when handling the parts. Wait one-half hour after switching off before handling the parts.
  This sticker is to indicate that the marked item can be hot and should not be touched without taking care. For device with this sticker, this device is intended for installation in a restricted access location, access can only be gained by service persons or by users who have been instructed about the reasons for the restrictions applied to the location and about any precautions that shall be taken.
- Do not install devices for professional use in locations where children are likely to appear.
- If the device needs to be installed on the wall or ceiling, install the device according to the instructions in Quick Start Guide. Attach the device properly to the floor/wall in accordance with the installation instructions to prevent injury.

- For the device with supplement light (refer to datasheet for details):
  Possibly 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 DO NOT turn on the light when you assemble, install or maintain the device.
- For the battery with + and - signs, + identifies the positive terminals of the device which is used with or generates direct current, and - identifies the negative terminals of the device which is used with or generates direct current.
- Do not touch the bare components (such as the metal contacts of the inlets) and wait for at least 5 minutes, since electricity may still exist after the device is powered off.
- No naked flame sources, such as lighted candles, should be placed on the device.
- Never place the device in an unstable location. The device may fall, causing serious personal injury or death.
- If the device needs to be wired by yourself, select the corresponding wire to supply power according to the electric parameters labeled on the device. Strip off wire with a standard wire stripper at corresponding position. To avoid serious consequences, the length of stripped wire shall be appropriate, and conductors shall not be exposed.
- Make sure that the power has been disconnected before you wire, install, or disassemble the device.
- If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.

Table of Contents

Chapter 1 Product Introduction 1
1.1 Product Features 1
1.2 Appearance 2
1.3 Interface 3
1.4 Application Scene 4
Chapter 2 Installation 5
2.1 Before You Install 5
2.2 Lifting Rope Mounting 5
2.3 Horizontal Pole Mounting 7
2.4 In-Ceiling Mounting 11
2.5 Pendant Mounting 12
Chapter 3 Activate and Access 14

Chapter 1 Product Introduction

1.1 Product Features

The product features of network ceiling microphone are as follows:

- Sound reinforcement pickup radius is 3 m, video conference pickup radius is 5 m.
- 8 audio collection areas, allowing you to adjust the areas and set area priorities to ensure sound collection
- Support 48 kHz/24-bit high sampling rate, providing more authentic sound
- Support intelligent noise reduction algorithms, effectively solving various transient noise interference in the environment
- Support audio processing algorithms such as AEC, AFC, AGC, and EQ adjustment, and can support local amplification, remote conference, etc.
- Support AES67 international standard transmission protocol (subsequent versions will support AES67 third-party compatibility), effectively ensuring low-latency and high-synchronization transmission for the network audio system
- Support device activation, network setting, routing setting, parameter setting, and other related operations via audio assistant tool
- Support 1-channel LINE IN/2-channel LINE OUT analog interfaces, which can be used with analog audio systems.
- Support power supply and audio transmission via POE network cables, making installation and wiring more convenient

Note：

Functions vary with models. Please refer to the actual device for details.

1.2 Appearance

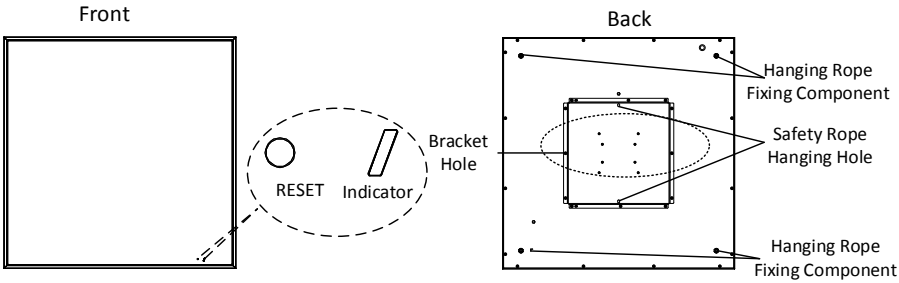


Figure 1-1 Appearance

- RESET: press and hold RESET for about 5 s to restart the device and restore it to factory default settings.
- Indicator:

Table 1-1 Indicator

Indicator Status	Status Description
Light Off	The device is not powered on. The program is not started. It is recommended to change the power adapter and check that there is no power outage.
Breathing White	The device is powering on and initializing.
Solid White	The device is running normally.
Flashing White (10 times)	Device recognition is in progress (when there are multiple devices in the system, click **Identify Device** on the client.
Flashing Red	Device fault.
Solid Red	Device is in mute mode, which means that the pickup function is disabled.

Note：

Appearance varies with models. Please refer to the actual device for details.

1.3 Interface

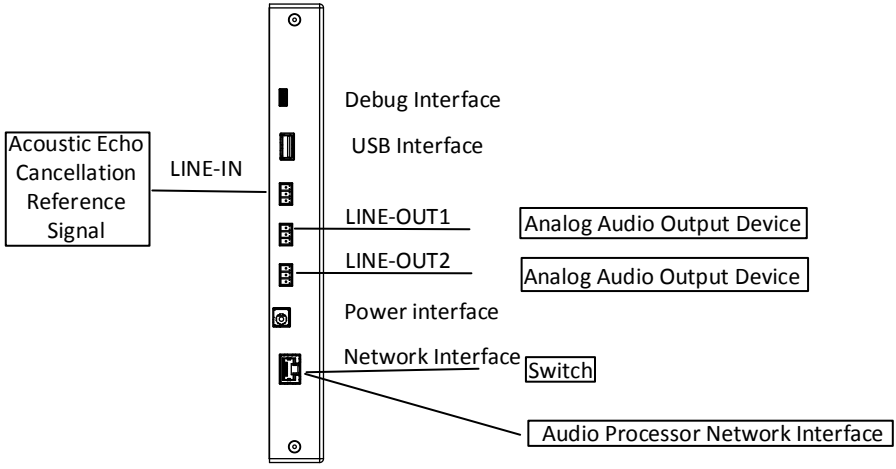


Figure 1-2 Interface

- Debug interface: For professional debugging only.
- USB interface: It can be connected to the USB flash drive to record data, or for professional debugging.
- LINE-IN: When used with an analog audio system, it can be connected to an analog audio output device as the acoustic echo cancellation reference signal input for the device. Up to 1 VRMS audio signal input is supported.
- LINE-OUT1 and LINE-OUT2: When used with an analog audio system, it can be connected to an analog audio output device. Up to 780 VRMS audio signal output is supported.
- Power interface: It can be connected to the power adapter, which needs to be purchased separately: 12 V DC, 2 A, Ø2 mm round port power adapter.
- Network interface: It is used for PoE power input and network communication. It can be connected to the switch or audio processor network interface.

Note：

Appearance varies with models. Please refer to the actual device for details.

1.4 Application Scene

The device is suitable for various indoor scenarios such as meeting rooms, training rooms, and classrooms. It is not influenced by changes in indoor layouts. It supports multiple installation methods.

Chapter 2 Installation

2.1 Before You Install

- Before installation, make sure the mounting wall has sufficient thickness, and can withstand at least 4 times the weight of the device and its components.
- You can use the supplied accessories for wall mounting 1, or you can purchase the bracket for wall mounting 2.
- This device is compatible with 100 mm × 100 mm VESA mounting holes. It supports the following installation methods: lifting rope mounting, horizontal pole mounting with rope, and in-ceiling mounting. A pendant bracket can be purchased for pendant mounting. Please install the device according to your specific installation requirements.

2.2 Lifting Rope Mounting

The device can be installed to the ceiling through the lifting rope mounting component.

This installation method is applicable to the ceiling without suspended ceiling.

1. Loosen the butterfly nuts on the lifting rope mounting components and remove the nuts.

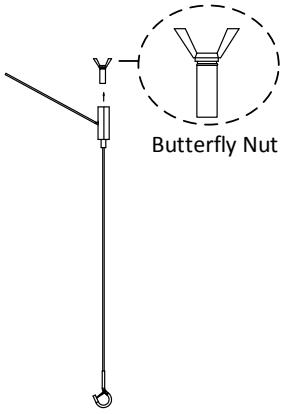


Figure 2-1 Remove Butterfly Nuts

2. (Optional) If your ceiling is installed with suspended ceiling, you should remove the suspended ceiling
3. Stick the installation sticker to the ceiling. Drill 4 holes (Ø10 mm, depth 50 mm) according to the 4 black circles on the edge of the installation sticker, and insert the expansion bolts into the holes.

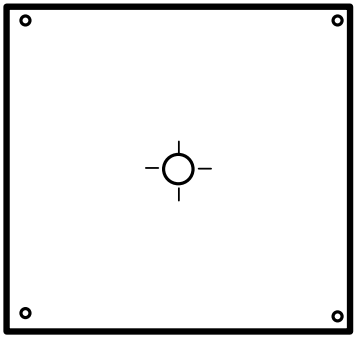


Figure 2-2 Stick Installation Sticker and Drill Holes

4. Screw the wire lockers of 4 lifting rope mounting components into the expansion bolts. Stretch the steel cables according to the required installation height of the device, adjust them to the appropriate length. It is recommended to retain the steel cable length at 20 to 30 mm, and cut off the excess steel cable.

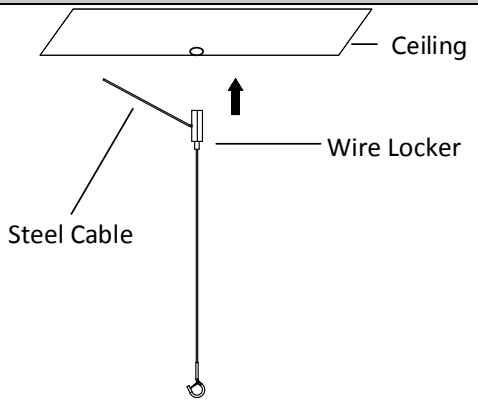


Figure 2-3 Fix Wire Locker

5. Secure the device and the 4 lifting rope mounting components through the lifting rope fixing components on the back of the device.

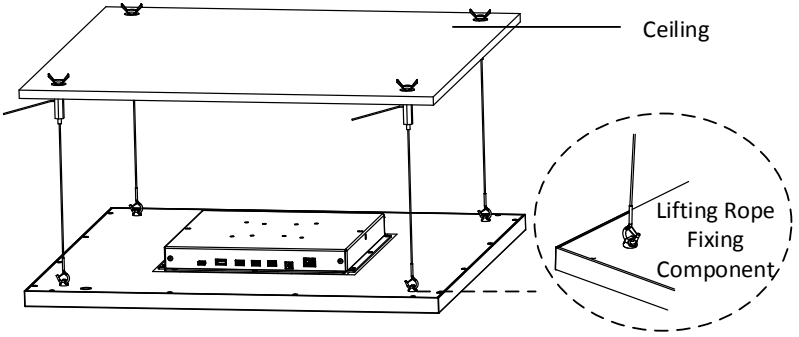


Figure 2-4 Fix Device and Lifting Rope

6. Refer to "***1.3 Interface***" to connect the device power adapter, network cable, and other interfaces as needed.

2.3 Horizontal Pole Mounting

This device can be installed to the ceiling through the horizontal pole bracket and the lifting rope mounting component. This installation method is applicable to the following scenes:

Ceiling with suspended ceiling: The suspended ceiling size is 600 mm × 600 mm or 600 mm × 1200 mm.

1. Remove the suspended ceiling.
2. Stick the installation sticker to the ceiling. Drill 5 holes (Ø10 mm, depth 50 mm) according to the 5 black circles of the installation sticker.

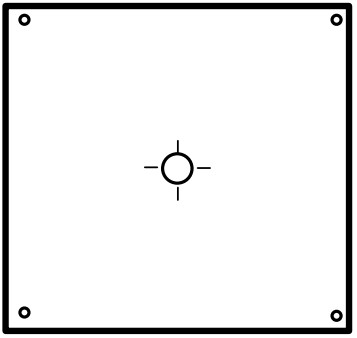


Figure 2-5 Stick Installation Sticker and Drill Holes

3. Install the suspended ceiling back to the ceiling. Remove other suspended ceilings according to the requirements to install the device.
4. Place the 2 brackets on the grid above the suspended ceiling, aligning the holes on the edge of the ceiling with the bracket holes.

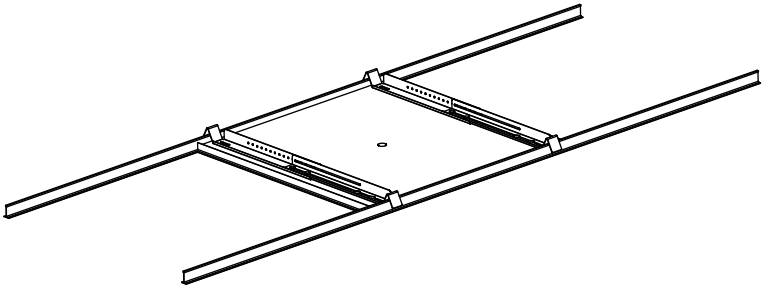


Figure 2-6 Fix Horizontal Pole Bracket and Lifting Rope Mounting Component

5. Loosen the butterfly nuts on the lifting rope mounting components and remove the nuts.

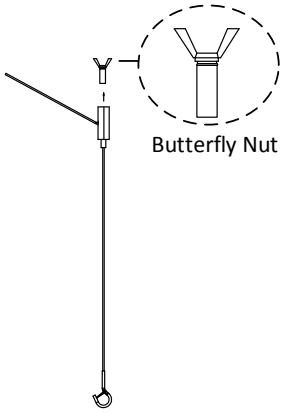


Figure 2-7 Remove Butterfly Nut

6. Thread the 4 butterfly nuts onto the 2 horizontal pole brackets separately, then tighten the wire lockers to the butterfly nuts.

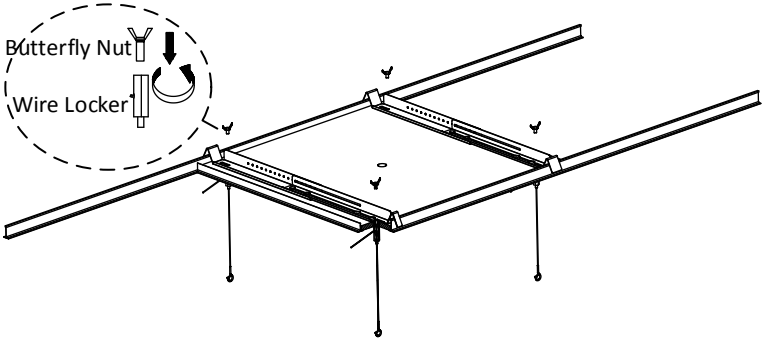


Figure 2-8 Fix Horizontal Pole Bracket and Wire Locker

7. Secure the device and the 4 lifting rope mounting components through the lifting rope fixing components on the back of the device. Stretch the steel cables according to the required installation height of the device, adjust them to the appropriate length. It is recommended to retain the steel cable length at 20 to 30 mm, and cut off the excess steel cable.

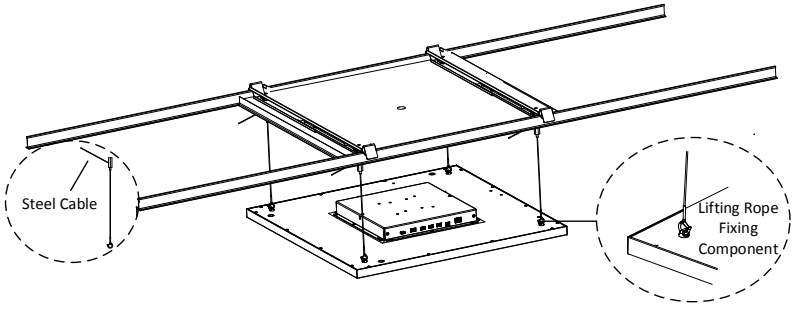


Figure 2-9 Fix Device and Lifting Rope

8. Secure one end of the hooks of the two safety ropes to the safety rope mounting holes on the rear cover of the device, and secure the hooks of the other ends to the poles closest to the mounting wall. Adjust the length of the 2 safety ropes through the wire lockers to make sure the safety ropes are in a tight state.

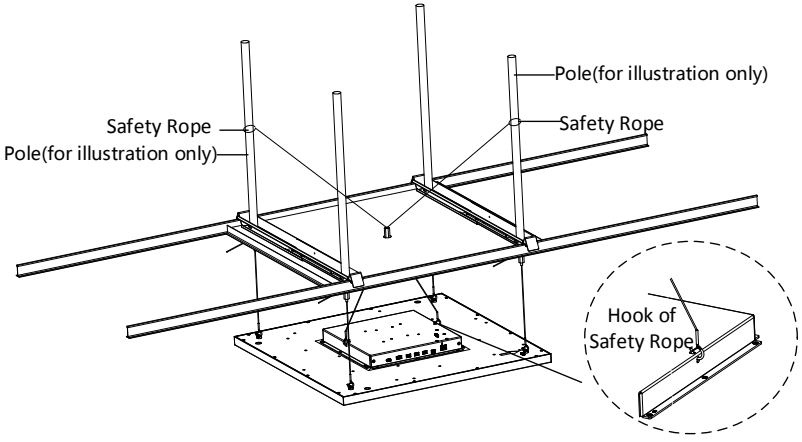


Figure 2-10 Install Safety Rope

Note **:**

For safety purposes, the safety ropes should be tightened.

9. Refer to "***1.3 Interface***" to connect the device power adapter, network cable, and other interfaces as needed.

2.4 In-Ceiling Mounting

This device can be installed on the ceiling grid directly. This installation method is applicable to the following scenes:

Ceiling with suspended ceiling: The suspended ceiling size is 600 mm × 600 mm or 600 mm × 1200 mm.

1. Remove the 600 mm × 600 mm or 600 mm × 1200 mm suspended ceiling.
2. Place the device on the ceiling grid.

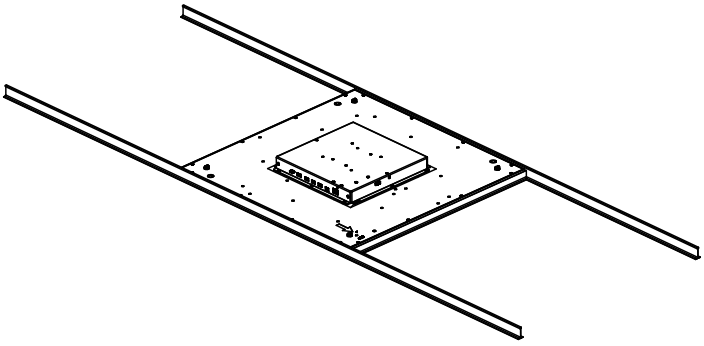


Figure 2-11 Place Device

3. Secure one end of the hooks of the two safety ropes to the safety rope mounting holes on the rear cover of the device, and secure the hooks of the other ends to the poles closest to the mounting wall. Adjust the length of the 2 safety ropes through the wire lockers to make sure the safety ropes are in a tight state.

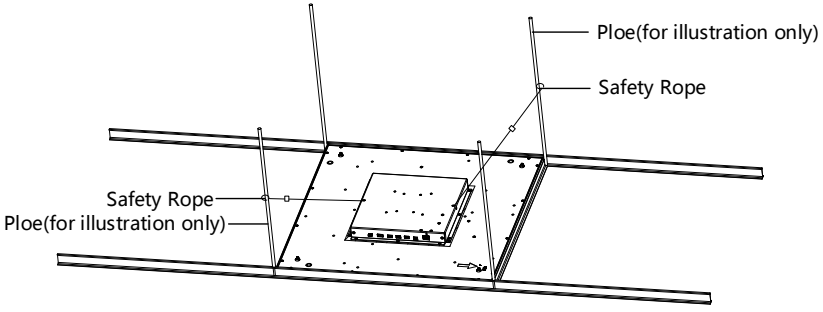


Figure 2-12 Install Safety Rope

Note：

For safety purposes, the safety ropes should be tightened.

4. Refer to "***1.3 Interface***" to connect the device power adapter, network cable, and other interfaces as needed.

2.5 Pendant Mounting

You can purchase the pendant mounting bracket to install the device. This installation method is applicable to the following 2 scenes:

- Ceiling without suspended ceiling.
- Ceiling with suspended ceiling.

1. (Optional) If your ceiling is installed with suspended ceiling, you should remove the suspended ceiling.
2. Drill 4 screw holes in the ceiling top according to the corresponding bracket holes, and then insert the metal expansion sleeves into the hole.

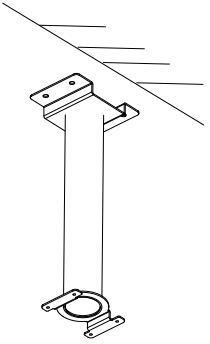


Figure 2-13 Drill Holes

3. Fix the bracket to the ceiling top with 4 nuts.

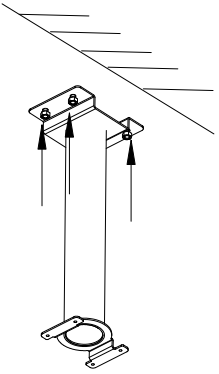


Figure 2-14 Fix Bracket

4. Fix the bracket to the ceiling top with 4 nuts.

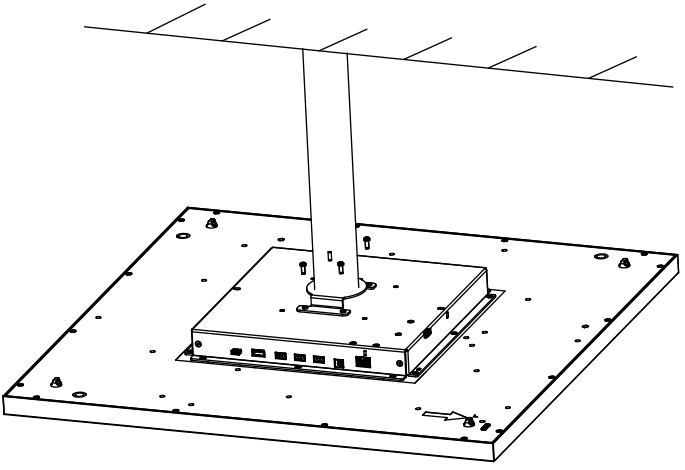


Figure 2-15 Fix Device

5. Refer to "***1.3 Interface***" to connect the device power adapter, network cable, and other interfaces as needed.

Chapter 3 Activate and Access

Scan the QR code to get Activate and Access. Note that mobile data charges may apply if Wi-Fi is unavailable.


See Far, Go Further