HIKVISION

Switch

Quick Start Guide

See Far, Go Further

Preface

Applicable Models

This manual is applicable to switches.

Symbol Conventions

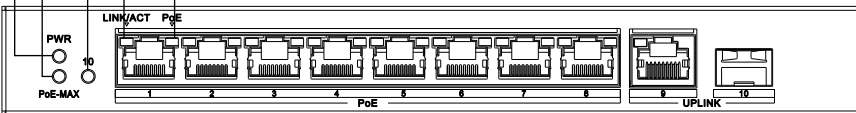The symbols that may be found in this document are defined as follows.

Symbol	Description
Note	Provides additional information to emphasize or supplement important points of the main text.
Caution	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
Danger	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

UD38879B-A

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① Learn About Your Switch

▷ Front Panel (Example)

▷ Rear Panel (Example)

Device Information ▷

Scan the QR code to obtain product introduction, packing list, and appearance of your desired device model.

Device appearances vary with models. The front and rear panels below are only provided as an example. The actual device prevails.

Ports

	PoE RJ45 Port	RJ45 Port	SFP Fiber Optical Port	High-Priority Port
	10/100 Mbps or gigabit PoE RJ45 port, used for connection to a powered device (PD) via a network cable.	10/100 Mbps or gigabit RJ45 port, used for connection to another device via a network cable.	Gigabit SFP fiber optical port, used for connection to another device via an optical fiber when the port is plugged into with an optical module.	Red port (or VIP port), used to preferentially ensure network transmission in key service areas.

Indicators

①	PWR Indicator	• Solid on: The switch is powered on normally. • Unlit: No power supply is connected or power supply is abnormal.
②	PoE-MAX Indicator	• Solid on: The output power of the switch is about to reach or has reached the upper limit. The power supply may be abnormal if more devices are connected. • Unlit: The switch does not supply power to a PD, or supplies power to a PD normally and its output power does not reach the upper limit. The PoE-MAX indicator will be unlit in 5 seconds after the output power of the switch returns to normal.
③	Optical Port Indicator	• Solid on: The gigabit SFP fiber optical port is connected. • Flashing: The gigabit SFP fiber optical port is transmitting data. • Unlit: The gigabit SFP fiber optical port is disconnected or connection is abnormal.
④	LINK/ACT Indicator	• Solid on: The port is connected. • Flashing: The port is transmitting data. • Unlit: The port is disconnected or connection is abnormal.
⑤	PoE Indicator	• Solid on: The switch supplies power to a PD normally. • Unlit: The switch is disconnected from a PD or power supply is abnormal.

Others

Grounding Terminal	Reset Button	Power Supply	Mode Button	DIP Switch
Used for connection to the grounding cable to protect the switch from lightning.	Press and hold the reset button for about 5 seconds to restore all the configurations of the switch to default settings.	Use the attached power cord (and power adapter, if any) to connect the switch to a power socket.	Used for switching the switch's working mode. If the corresponding indicator is solid on, it indicates that the switch works in this mode.	Toggle on or off the DIP switch to enable or disable the Extend mode (specified ports of the switch support network transmission of up to 300 meters).

The ports, indicators, etc. above are only enumerations. For more information, see Device Information.

② Install Your Switch

Please select an appropriate installation method according to the actual needs.

ⓘNote
The following figures are for your reference only.

Before You Start
- Ensure that the desktop, wall, or rack is stable and firm enough.
- Keep the room well-ventilated. Leave at least 10 cm heat dissipation space around the device.
- Keep at least 1.5 cm vertical distance between two adjacent devices for rack-mounted installation.
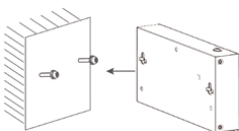
▷ Desktop Placement

Place the device on the desk.

▷ Wall-Mounted Installation
Steps

1. Check the distance between the two hanging holes at the bottom of the device.
2. Insert two self-prepared M4 screws into the wall.
3. Align the hanging holes with screws, and hang the device on the screws.
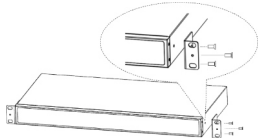

ⓘNote
- The load-bearing capacity of the wall should be 3 times more than the weight of the device.
- Ensure that the distance between the two screws equals to the distance between the two hanging holes.
- Set aside at least 4 mm of the screw bodies outside the wall.

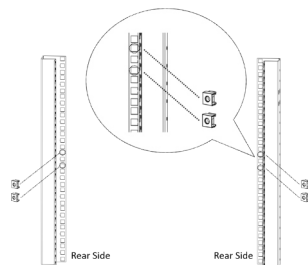### ▷ Rack-Mounted Installation
Steps

1. Check the grounding and stability of the rack.
2. Use M3 or M4 screws provided in the package to fix the two L-shaped brackets to both sides of the device.
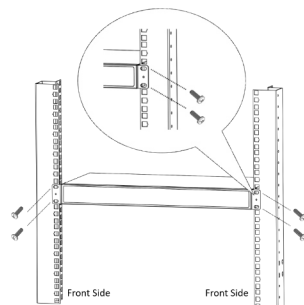

ⓘNote
The number of screws provided for fixing L-shaped brackets to the device varies with device models.

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3. Fix two self-prepared M5 or M6 nuts to the rear side of the rack on both sides respectively.

Rear Side   Rear Side

4. Place the switch against the rack so that the holes on the L-shaped brackets are aligned with the holes where the nuts have been fixed.
5. Fix the brackets to the front side of the rack with two self-prepared M5 or M6 screws on both sides respectively to stably install your device.
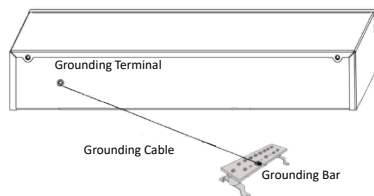

Front Side   Front Side

③ Ground Your Switch

Grounding is used to quickly release overvoltage and overcurrent induced by lightening for the switch, and to protect personal safety.

Select an appropriate grounding method according to your needs.

▷ With Grounding Bar
If a grounding bar is available at the installation site, follow the steps below.

Grounding Terminal
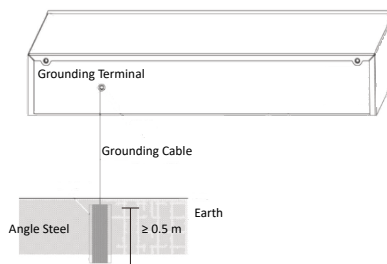
Grounding Cable

Grounding Bar

Steps
1. Connect one end of the grounding cable to the binding post on the grounding bar.
2. Connect the other end of the grounding cable to the device's grounding terminal and fix the screw.

▷ Without Grounding Bar

If there is no grounding bar but the earth is nearby and the grounding body is allowed to be buried, follow the steps below.

Grounding Terminal

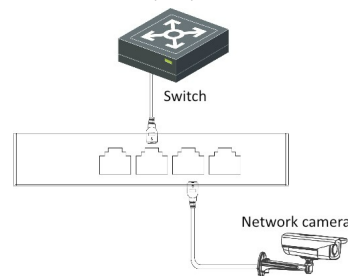Grounding Cable

Earth

Angle Steel   ≥ 0.5 m

Steps
1. Bury an angle steel or steel pipe (≥ 0.5 m) into the earth.
2. Weld one end of the grounding cable to the angle steel or steel pipe and embalm the welding point via electroplating or coating.
3. Connect the other end of the grounding cable to the device's grounding terminal.

④ Connect Your Switch to a Peer Device

▷ RJ45 Port
Use a network cable to connect the device to the RJ45 port of a peer device such as the IP camera (IPC), network video recorder (NVR), switch, etc.

Switch

Network camera

▷ SFP Fiber Optical Port
If the device has a fiber optical port or a combo, connect the device to a peer device through an optical fiber connecting optical modules plugged into fiber optical ports respectively.

- When connected to a network cable, the combo is a RJ45 port.
- When plugged into with an optical module and connected to an optical fiber, the combo functions as a fiber optical port.
- When connected to both the network cable and optical fiber at the same time, the combo works as a fiber optical port.

⚠ Caution
- Single-mode optical modules need to be paired.
- Do not bend an optical fiber (curvature radius ≥ 10 cm) overly.
- Do not look directly at an optical fiber connector as laser is harmful to eyes.

Steps
1. Connect the two paired SFP optical modules with an optical fiber.
2. Hold the SFP optical module from one side, and smoothly plug it into the switch along with the SFP port slot until the optical module and the switch are closely attached.
3. After powering your switch on, check the status of the LINK/ACT indicator.
   – If the indicator is lit, the link is connected.
   – If the indicator is unlit, the link is disconnected.
   Check the line, and make sure the peer device has been started.

⑤ Power Your Switch On

Please use the attached power cord (and power adapter, if any) in package to power on the device.
Before powering your switch on, make sure that:
- The operating power supply is compliant with the rated input standard.
- Port cables and grounding cables are correctly connected.
- If there is outdoor cabling, connect a lightning rod and lightening arrester to the cable.

⚠ Caution
For PoE switches, power cables and network cables cannot be wired together, otherwise the PD or switch ports will be burnt.

⑥ Get More Information

Scan the QR code below to quickly get support on answers to FAQs.