



# **Switch Client**

**User Manual**

## Legal Information

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The Manual 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 Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the Hikvision website ( <https://www.hikvision.com/> ).

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### FCC Information

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.

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



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 EMC Directive 2014/30/EU, the RoHS Directive 2011/65/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: <http://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: <http://www.recyclethis.info> .

### **Industry Canada ICES-003 Compliance**

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

# Preface

## Applicable Models

This manual is applicable to iVMS-4200 client of the switch.

## Symbol Conventions

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

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

## Safety Instruction

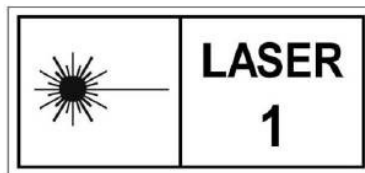
### **Danger**

- This is a class A product and may cause radio interference in which case the user may be required to take adequate measures.
- Ensure that your devices powered via the PoE port have their shells protected and fire-proofed, because the switches are not compliant with the Limited Power Source (LPS) standard.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- The socket-outlet shall be installed near the device and shall be easily accessible.
- The device must be connected to an earthed mains socket-outlet.
- Install the device according to the instructions in this manual.
- ⚡ indicates hazardous live and the external wiring connected to the terminals requires installation by an instructed person.
- Keep body parts away from fan blades. Disconnect the power source during servicing.
- Never place the device in an unstable location. The device may fall, causing serious personal injury or death.
- This device is not suitable for use in locations where children are likely to be present.

- **CAUTION:** Risk of explosion if the battery is replaced by an incorrect type.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- 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.

### **Caution**

- **CAUTION:** Double pole/Neutral fusing. After operation of the fuse, parts of the device that remain energized might represent a hazard during servicing.
- The device has been designed, when required, modified for connection to an IT power distribution system.
- This device is suitable for mounting on concrete or other non-combustible surface only.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc. The openings shall never be blocked by placing the device on a bed, sofa, rug or other similar surface.
- No naked flame sources, such as lighted candles, should be placed on the device.
- The device shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the device.
- Burned fingers when handling the cover area of the device. Wait one-half hour after switching off before handling the parts.
- **CLASS 1 LASER PRODUCT**



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## Chapter 1 Product Introduction

The switches support client management, network topology management, port management and so on, which are suitable for small-scale LAN device access.



The switch ports vary with different models. The actual device prevails.

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## Chapter 2 Device Management

The device can be configured and managed through iVMS-4200 software, mainly including network parameter configuration, port configuration, network topology display and so on.

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### Note

- This chapter will briefly introduce the device management through iVMS-4200 software. For other functions, please refer to *User Manual of iVMS-4200 Software*.
  - All pictures in this manual are for illustration only, and the specific interface is subject to the actual device.
- 

### 2.1 Activate Devices

For the inactive devices, you are required to create a password to activate them before they can be added to the software and work properly.

#### Before You Start

Make sure the device to be activated is connected to the network and is in the same network segment with the PC running the client.

#### Steps

---

### Note

This function should be supported by the device.

---

1. Enter the Device Management page.
2. Click **Device** tab on the top of the right panel.
3. Click **Online Device** to show the online device area at the bottom of the page.  
The searched online devices are displayed in the list.
4. Check the device status (shown on **Security Level** column) and select an inactive device.

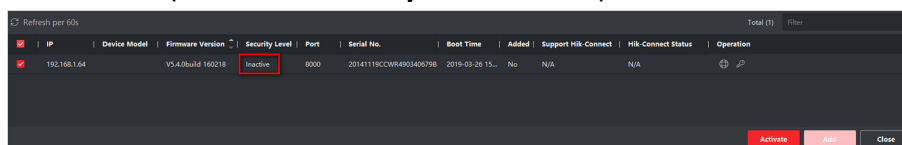


Figure 2-1 Online Inactive Device

5. Click **Activate** to open the Activation dialog.
6. Create a password in the password field, and confirm the password.

---

### Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least

three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.

Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

---

7. Click **OK** to activate the device.

## 2.2 Add Devices

The client provides various device adding modes including IP/domain, IP segment, cloud P2P, ISUP protocol, and HiDDNS. The client also supports importing multiple devices in a batch when there are large amount of devices to be added. The section only introduces one mode, namely, adding a detected online device.

### Steps

1. Enter the Device Management module.
2. Click **Device** tab on the top of the right panel.
3. Click **Online Device** to show the online device area.

The searched online devices are displayed in the list.

4. Select an online device in the **Online Device** area, and click **Add** to open the device adding dialog.



### Note

For the inactive device, you need to create the password for it before you can add the device properly. For detailed steps, refer to **Activate Devices**.

---

5. Enter the required information.

### Name

Enter a descriptive name for the device.

### IP Address

Enter the device's IP address. The IP address of the device is obtained automatically in this adding mode.

### Port

You can customize the port No. The port No. of the device is obtained automatically in this adding mode.

### User Name

By default, the user name is **admin**.

### Password

Enter the device password.



### Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.

Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

---

6. Check **Synchronize Time** to synchronize the device time with the PC running the client after adding the device to the client.
7. Click **Add**.

## Chapter 3 Device Status

In the **Device Management** → **Device** interface, click  to view the device status, port status, PoE port status, and port statistics.

### Note

All pictures in this manual are for illustration only, and the specific interface is subject to the actual device.

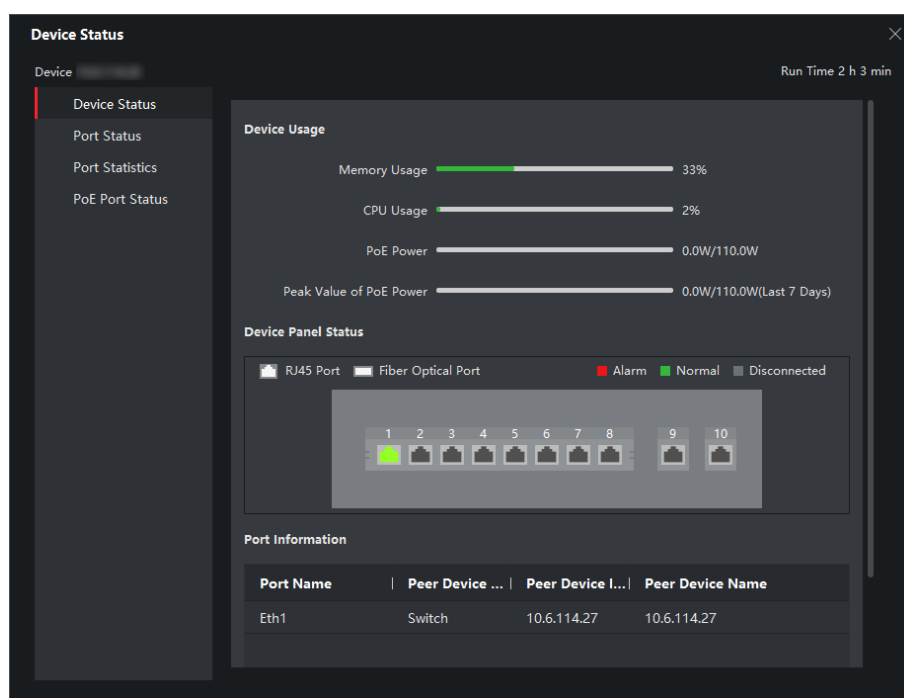


Figure 3-1 Device Status

### Device Status

You can view the device usage, device panel status and port information.

### Port Status

You can view the bitrate, duplex and flow control of ports.

### Port Statistics

You can view the number of bytes sent or received, the number of packets sent or received, sending or receiving rate, and peak value of sending or receiving rate.

### Note

Drag the sliding bar to view all data.

### PoE Port Status

You can view the enabling status and output power of different ports.

## Chapter 4 Topology Display

In **Topology** interface, you can view the relationships among different devices added and configure the topology.

### 4.1 Relate Operations

Select an added device, go to  → **General Application** → **Topology** to enter the topology display interface.

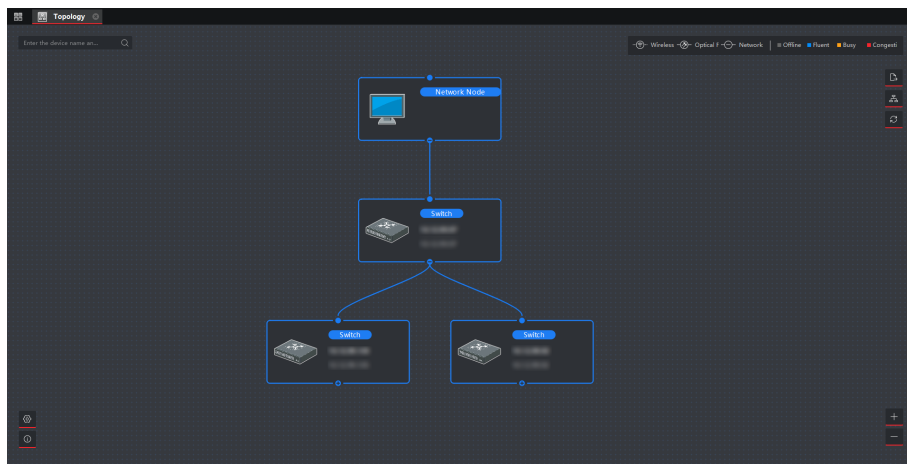


Figure 4-1 Topology Display

#### Interface Description

- On the upper-left corner, you can enter another name or IP address to search the device.
- On the upper-right corner, you can view the icon of lines and the meaning of different colors, select two device to show the flash of the signal transmission between them, and export or refresh the topology.
- On the lower-left corner, you can do the topology settings and view the tips.
- On the lower-right corner, you can click the icons or scroll your mouse wheel to enlarge or narrow the topology.

---

#### Note

If you enter the topology interface for the first time, no topology is displayed, please click  to refresh it or to get topology again.

---

**Relate Operations/Icons Description**

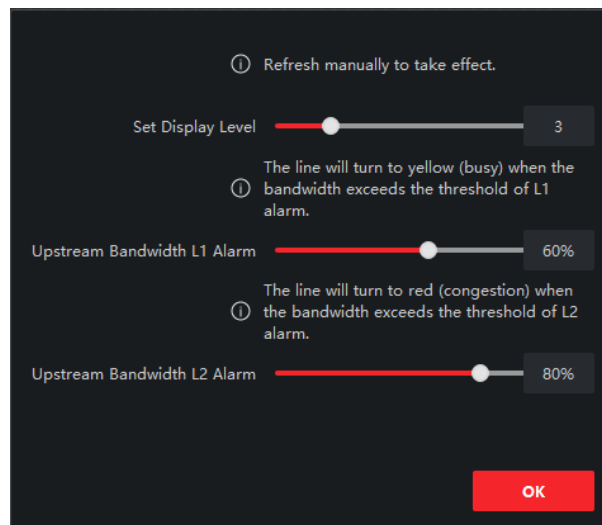
| Actions/Icons                                                                     | Operation Description                                                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Double click a device.                                                            | Show the device type and IP, panel status, and port information.                          |
| Double click a line.                                                              | Show transmission rate, port information, etc.                                            |
| Right-click a device.                                                             | Jump to <b>Device Status</b> interface. For details, see <i><b>Device Status</b></i> .    |
|                                                                                   | Show the alarm information and event information, and cancel the alarm.                   |
|                                                                                   | Jump to <b>Remote Configuration</b> interface.                                            |
|                                                                                   | Set the device as root node.                                                              |
|                                                                                   | Edit the device name.                                                                     |
|  | Select the path and format to export the topology.                                        |
|  | Select IPC and current devices to show the flash of the signal transmission between them. |

## 4.2 Topology Settings

**Steps**

1. Click  on the lower-left corner to do the topology settings.
  - Set display level: 1 to 10.
  - Set upstream bandwidth L1 alarm: 1% to 100%. The line will turn to yellow (busy) when the bandwidth exceeds the threshold of L1 alarm.
  - Set upstream bandwidth L2 alarm: 1% to 100%. The line will turn to red (congestion) when the bandwidth exceeds the threshold of L2 alarm.
2. Click **OK**.





**Figure 4-2 Topology Settings**

---

 **Note**

After changing the topology settings, you need to click  to view the latest topology.

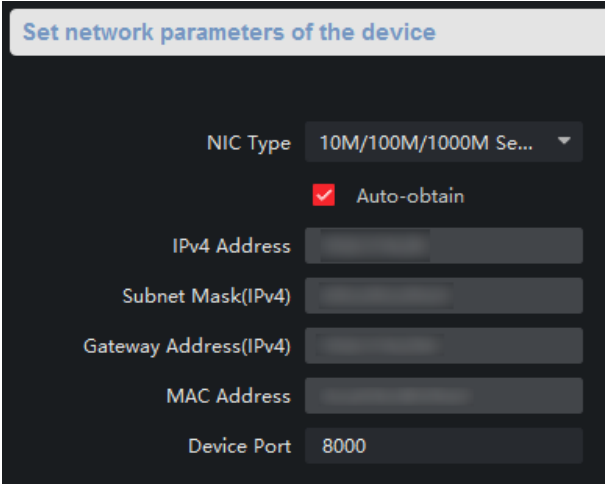
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## Chapter 5 Network Configuration

In **Network** interface, you can configure network parameters as needed.

### Basic Settings

Go to  → **Network** → **General** to configure NIC type, IPv4 address, subnet mask, gateway address, MAC address, and device port.



Set network parameters of the device

NIC Type 10M/100M/1000M Se... ▼

☒ Auto-obtain

IPv4 Address

Subnet Mask(IPv4)

Gateway Address(IPv4)

MAC Address

Device Port 8000

Figure 5-1 Network Configuration



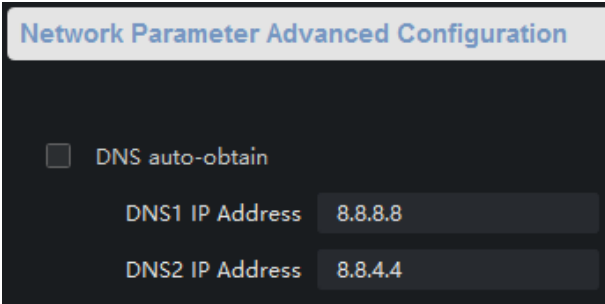
### Note

After the IPv4 address is reset, the device IP may not be in the same network segment as the computer IP of the client, so it cannot be configured and managed. It is recommended to use the SADP tool to plan the IP address of the device when the device is activated for the first time.

### Advanced Settings

Go to  → **Network** → **Advanced Settings** to configure DNS IP address.

**DNS Server** address of your own computer or public address on the internet are both available.



Network Parameter Advanced Configuration

☐ DNS auto-obtain

DNS1 IP Address 8.8.8.8

DNS2 IP Address 8.8.4.4

Figure 5-2 Advanced Settings

---

### Note

- **DNS auto-obtain** is available only when you check **Auto-obtain** in **Network → General** .
  - It is recommended to configure both DNS1 and DNS2 address to prevent that one of the addresses is invalid.
- 

### Hik-Connect Settings

Go to  → **Network** → **Configuring the Hik-Connect Settings** to enable Hik-Connect to upload data to the Hik-Connect.

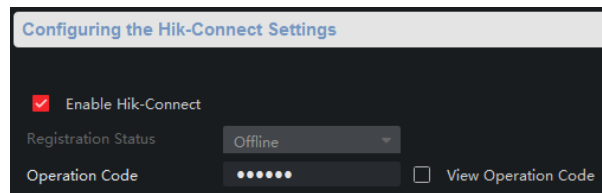


Figure 5-3 Hik-Connect Settings

1. Check **Enable Hik-Connect**.
2. Enter **Operation Code**.
3. Click **Save**.

## Chapter 6 Port Configuration

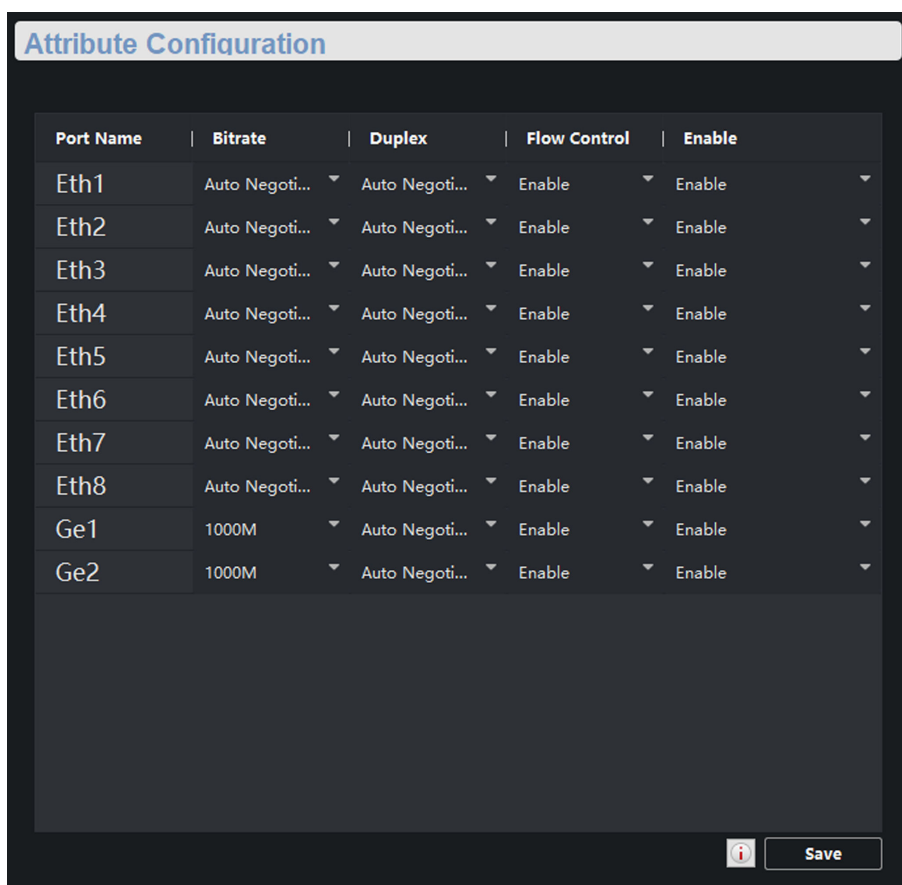
Select  → **Port Configuration** to enter the interface.

### Note

- You can take your configuration into effect by clicking **OK**. But to prevent invalid configuration caused by device power off, you can go to  → **Global Save** → **Save** to save all your configurations.
- Different devices have different functions, so the actual interface shall prevail.

### 6.1 Attribute Configuration

The basic parameters can influence the working status of ports. Configure the bitrate, duplex, and flow control, and enable or disable ports according to the actual situations in the **Attribute Configuration** interface.



The screenshot shows the 'Attribute Configuration' window. It contains a table with the following data:

| Port Name | Bitrate        | Duplex         | Flow Control | Enable |
|-----------|----------------|----------------|--------------|--------|
| Eth1      | Auto Negoti... | Auto Negoti... | Enable       | Enable |
| Eth2      | Auto Negoti... | Auto Negoti... | Enable       | Enable |
| Eth3      | Auto Negoti... | Auto Negoti... | Enable       | Enable |
| Eth4      | Auto Negoti... | Auto Negoti... | Enable       | Enable |
| Eth5      | Auto Negoti... | Auto Negoti... | Enable       | Enable |
| Eth6      | Auto Negoti... | Auto Negoti... | Enable       | Enable |
| Eth7      | Auto Negoti... | Auto Negoti... | Enable       | Enable |
| Eth8      | Auto Negoti... | Auto Negoti... | Enable       | Enable |
| Ge1       | 1000M          | Auto Negoti... | Enable       | Enable |
| Ge2       | 1000M          | Auto Negoti... | Enable       | Enable |

At the bottom right of the window, there is an information icon and a 'Save' button.

Figure 6-1 Attribute Configuration

### Bitrate

The data transmission rate of the port. The rate includes auto, 10 Mbps, 100 Mbps, and 1000 Mbps. The default is **Auto Negotiation**. The configurable rate varies with different ports.

### Duplex

The duplex mode of the port. Only **Auto Negotiation** is available for the current version.

### Flow Control

Enabling the flow control can prevent data loss in data transmission. The default is **Enable**.

### Enable

Enable or disable the port link. After you disable the port link, the data of the port stops transmission, but the power is supplied for other devices.



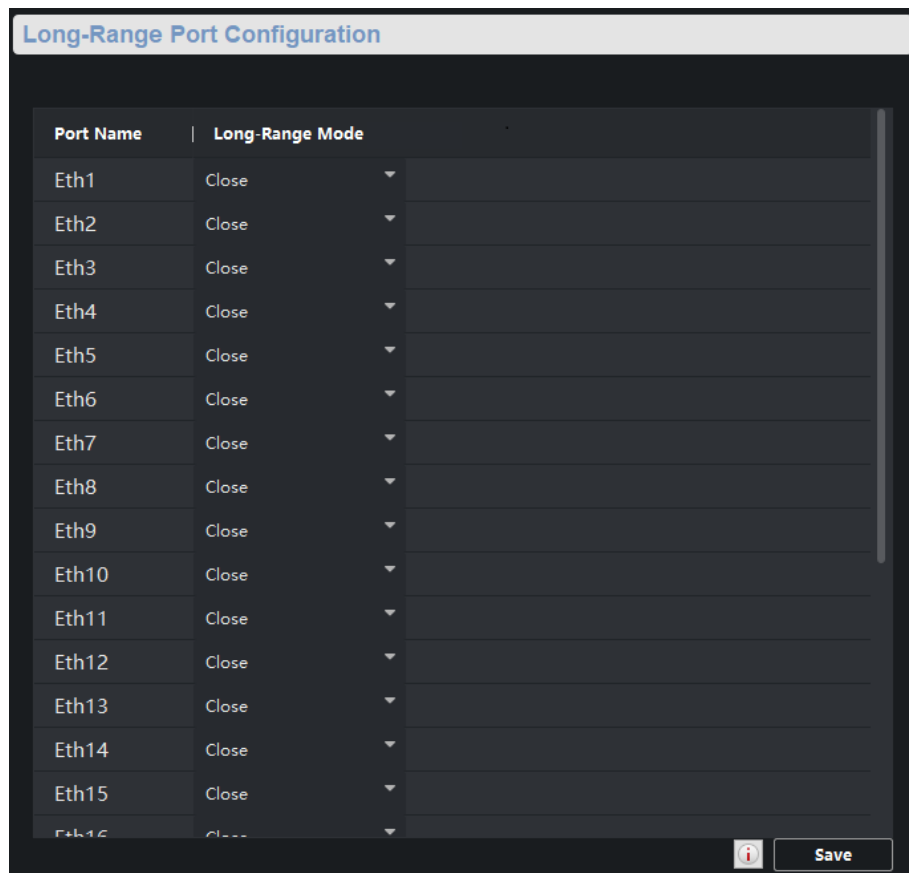
### Note

The rate, duplex, and flow control configuration of all ports must be the same in the aggregation group .

---

## 6.2 Long-Range Port Configuration

When the long-range mode is enabled, the transmission distance of the port can reach 300 meters, and the rate is 10 Mbps. When the long-range mode is disabled, the rate is restored to auto.



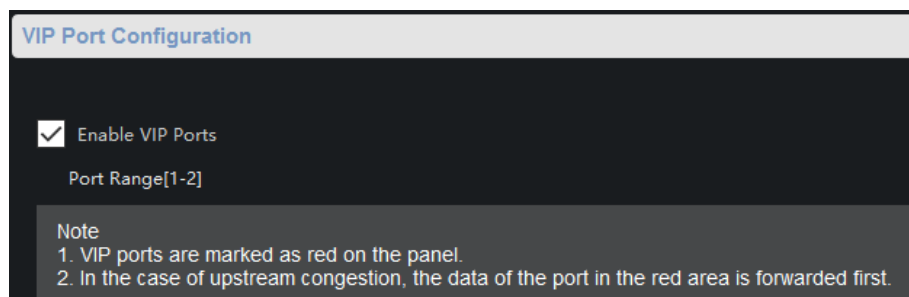
The image shows a web-based configuration interface titled "Long-Range Port Configuration". It features a table with two columns: "Port Name" and "Long-Range Mode". The table lists ports from Eth1 to Eth16. Each port's "Long-Range Mode" is currently set to "Close", and each entry has a downward arrow icon to its right. At the bottom right of the table, there is a red information icon and a "Save" button.

| Port Name | Long-Range Mode |
|-----------|-----------------|
| Eth1      | Close           |
| Eth2      | Close           |
| Eth3      | Close           |
| Eth4      | Close           |
| Eth5      | Close           |
| Eth6      | Close           |
| Eth7      | Close           |
| Eth8      | Close           |
| Eth9      | Close           |
| Eth10     | Close           |
| Eth11     | Close           |
| Eth12     | Close           |
| Eth13     | Close           |
| Eth14     | Close           |
| Eth15     | Close           |
| Eth16     | Close           |

Figure 6-2 Long-Range Configuration

## 6.3 VIP Port Configuration

VIP ports refer to high priority ports, which is identified by the red area on the device. In the case of uplink congestion, the data for the ports in this area is transmitted first.



The image shows a web-based configuration interface titled "VIP Port Configuration". It includes a checkbox labeled "Enable VIP Ports" which is checked. Below this is a text field labeled "Port Range[1-2]". At the bottom, there is a "Note" section with two points: "1. VIP ports are marked as red on the panel." and "2. In the case of upstream congestion, the data of the port in the red area is forwarded first."

☒ Enable VIP Ports

Port Range[1-2]

Note

1. VIP ports are marked as red on the panel.
2. In the case of upstream congestion, the data of the port in the red area is forwarded first.

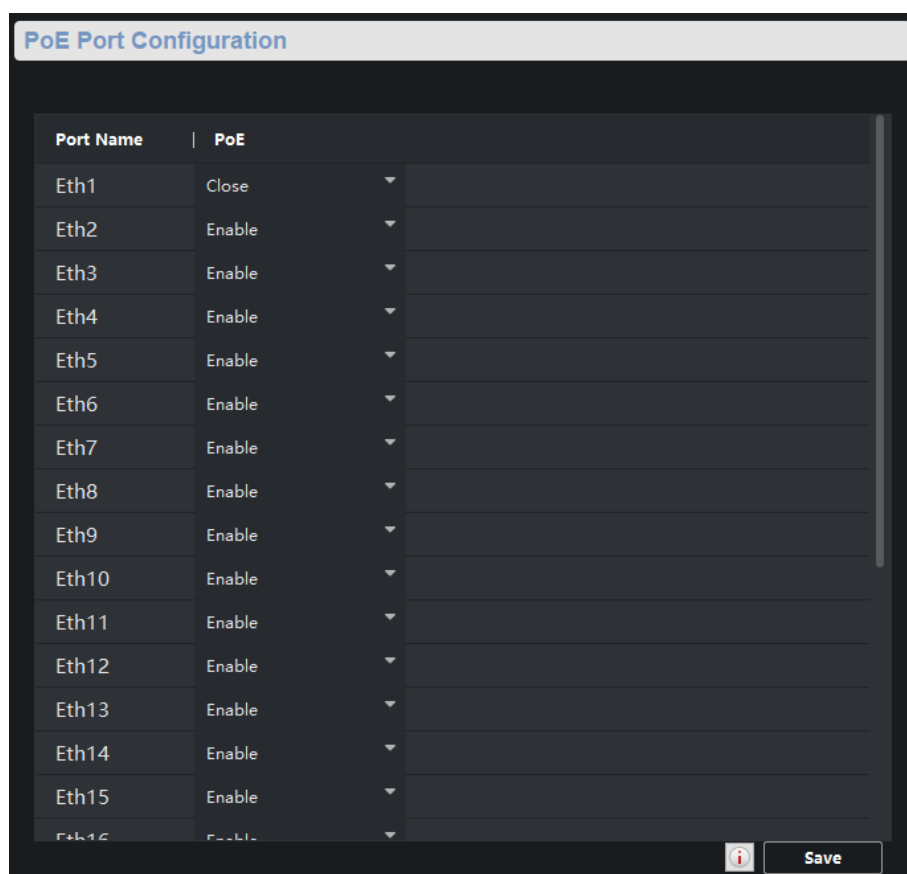
Figure 6-3 VIP Port Configuration

## 6.4 PoE Port Configuration

You can enable PoE to supply power for the powered devices (PDs).

### Note

Enabling or disabling PoE has no influences on data transmission of the port.



The image shows a 'PoE Port Configuration' window with a table of 16 ports. The first column is 'Port Name' and the second is 'PoE'. The 'PoE' column contains a dropdown menu for each port. The first port, Eth1, is set to 'Close', while all other ports (Eth2 through Eth16) are set to 'Enable'. A 'Save' button is located at the bottom right of the window.

| Port Name | PoE    |
|-----------|--------|
| Eth1      | Close  |
| Eth2      | Enable |
| Eth3      | Enable |
| Eth4      | Enable |
| Eth5      | Enable |
| Eth6      | Enable |
| Eth7      | Enable |
| Eth8      | Enable |
| Eth9      | Enable |
| Eth10     | Enable |
| Eth11     | Enable |
| Eth12     | Enable |
| Eth13     | Enable |
| Eth14     | Enable |
| Eth15     | Enable |
| Eth16     | Enable |

Figure 6-4 PoE Port Configuration

## Chapter 7 System Configuration

### 7.1 Device Information

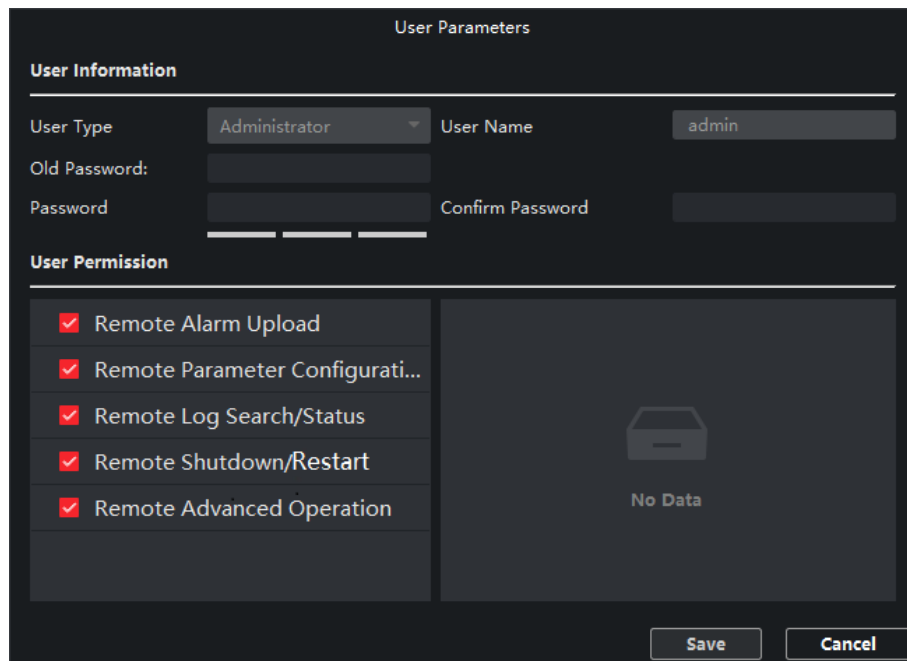
Select  → **System** → **Device Information** to view the device information including the device name, device model, port No., and port information.

### 7.2 User Management

The device only supports one admin user. Users cannot be added or deleted. You can only edit the passwords, IP addresses and permissions of the user.

#### Steps

1. Select  → **System** → **User**.
2. Click **Edit** or double-click the user to edit the password, IP address or permission of the user.



The image shows a 'User Parameters' configuration window. It is divided into two main sections: 'User Information' and 'User Permission'. In the 'User Information' section, there are fields for 'User Type' (set to 'Administrator'), 'User Name' (set to 'admin'), 'Old Password', 'Password', and 'Confirm Password'. The 'User Permission' section contains a list of permissions with checkboxes: 'Remote Alarm Upload', 'Remote Parameter Configurati...', 'Remote Log Search/Status', 'Remote Shutdown/Restart', and 'Remote Advanced Operation'. All these permissions are checked. To the right of this list is a large grey area with a car icon and the text 'No Data'. At the bottom right of the window are 'Save' and 'Cancel' buttons.

Figure 7-1 User Parameters

#### Note

8 to 16 characters is allowed for the password, including at least 2 of the following types: digits, lower-case letters, upper-case letters, and special characters. The password strength of the device can be automatically checked. We highly recommend you change your password regularly in order to increase the security of your product.



### 7.3 Device Maintenance

You can restart the device, restore the defaults, upload the upgrade file to upgrade your device.

#### Steps

1. Select  → **System** → **System Maintenance**.
2. Select function button to realize different functions.
  - **Reboot**: Click **Reboot** to remotely restart the device.
  - **Restore Default Settings**: Except network configuration and user parameters, all of the other parameters are restored to the default settings.
  - **Restore All**: All parameters are restored to the default settings. After restoration, the device needs to be activated again.
  - **Import Configuration File**: Select the configuration file, and enter the password for file export. After import, the devices will be restarted automatically.
  - **Export Configuration File**: Set and confirm the password for file export, and click **OK**. Select a storage path, and click **Save**.
  - Click  to select the upgrade file, and click **Upgrade**. The upgrading progress is shown below.



#### Note

If upgrading failed or the device cannot function, please contact our technical engineers.

---

### 7.4 Log Management

System operation logs can be searched and exported for backup.

#### Steps

1. Select  → **System** → **Log Query**.
2. Set search conditions.

#### Search Mode

**By Type**, **By Time**, **By Time&Type** or **All** can be selected.

#### Major Type

**Operation**, **Event**, and **All** can be selected. If you select the search mode as by time, the major type cannot be set.

#### Minor Type

Minor type is different under different major type. If you select the search mode as by time, the major type cannot be set.

#### Start Time

It refers to the start time for the logs. If you select the search mode as by type, the major type cannot be set.

#### End Time

It refers to the end time for the logs. If you select the search mode as by type, the major type cannot be set.

3. Click **Search**.
4. Click **Backup**, and select a backup path.
5. Click **Backup**.

## 7.5 Security Configuration

If the IP is locked because you enter a wrong password, the admin user can log in to the client at the PC (the IP is not locked) and enter the **Security** interface to unlock the locked IP.

### Steps

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#### **Note**

If you need to unlock it immediately, you can contact the admin user.

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1. Select  → **System** → **Security** .
  2. Unlock the IPs.
    - Click unlock icon to unlock single IP.
    - Click **Unlock All** to unlock all of the IPs.
- 

#### **Note**

- If the admin user is locked, you need to change the IP to log in admin again and unlock the locked IP.
  - Up to 5 trials of password are allowed for ordinary users, and 7 for the admin user.
-

## Chapter 8 Appendix

### 8.1 Communication Matrix

Please scan the QR code below to view the communication matrix document.



Figure 8-1 Communication Matrix

### 8.2 Device Command

Please scan the QR code below to view the device command document.



Figure 8-2 Device Command



See Far, Go Further