Panic Alarm Station

Configuration Guide

Legal Information

About this Manual

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/***).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

Trademarks

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.

Disclaimer

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS MANUAL 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 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 INSPECTION, 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 MANUAL AND THE APPLICABLE LAW, THE LATER PREVAILS.

Symbol Conventions

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

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

Regulatory Information

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 B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help

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: www.recyclethis.info

Contents

Chapter 1 Overview

Description

DS-PEA series of active panic alarm station supports dual network ports. It provides200W high-definition camera, center call, strobe light work schedule, two-way audio, remote/local open electric lock, external network camera to increase field of view and other functions. The device supports video call with the center, and linkage with the surrounding cameras and external lamp, sound box, etc. It helps to realize alarm aid in emergency.

The device is mainly used in classrooms, corridors, laboratories, dormitories, offices, hospital wards, etc.

Key Features

- Supports network adaptive, video and audio adaptive, and low video and audio delay in the case of network packet loss
- Two-way audio with center
- Video collection and all-day monitoring with 2 MP HD IR camera
- Supports accessing one channel of network camera
- Supports H.264/H.265
- Supports G.711U, G726, OPUS, and AAC
- Supports video storage
- Built-in omnidirectional microphone to realize 2 m two-way audio distance, 10 m listening distance
- Multiple network protocols including SIP, Private SIP, ISUP, and RTSP
- 3.5 mm standard audio interface for external active speaker
- Supports anti-breaking with full-band high-quality speaker and pickup
- Optional wireless communication module to meet different network environments
- Supports dual network ports

Chapter 2 Activation

In order to protect personal security and privacy and improve the network security level, you should activate the device the first time you connect the device to a network.

2.1 Activate via SADP

SADP is a tool to detect, activate and modify the IP address of the device over the LAN.

Before You Start

- Get the SADP software from the supplied disk or the official website ***http://www.hikvision.com/en/***, and install the SADP according to the prompts.
- The device and the PC that runs the SADP tool should be within the same subnet.

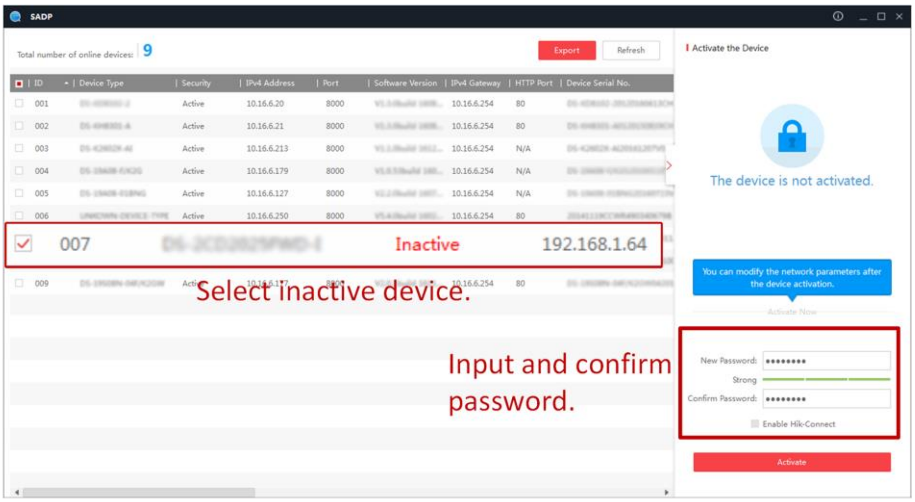
The following steps show how to activate a device and modify its IP address. For batch activation and IP addresses modification, refer to *User Manual of SADP* for details.

Steps

1. Run the SADP software and search the online devices.
2. Find and select your device in online device list.
3. Input new password (admin password) and confirm the password.

> ⚠**Caution**
>
> STRONG PASSWORD RECOMMENDED-We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Click **Activate** to start activation.



SADP

Total number of online devices: 9

Export Refresh

■ ID	Device Type	Security	IPv4 Address	Port	Software Version	IPv4 Gateway	HTTP Port	Device Serial No.
□ 001	[redacted]	Active	10.16.6.20	8000	[redacted]	10.16.6.254	80	[redacted]
□ 002	[redacted]	Active	10.16.6.21	8000	[redacted]	10.16.6.254	80	[redacted]
□ 003	[redacted]	Active	10.16.6.213	8000	[redacted]	10.16.6.254	N/A	[redacted]
□ 004	[redacted]	Active	10.16.6.179	8000	[redacted]	10.16.6.254	N/A	[redacted]
□ 005	[redacted]	Active	10.16.6.127	8000	[redacted]	10.16.6.254	N/A	[redacted]
□ 006	[redacted]	Active	10.16.6.250	8000	[redacted]	10.16.6.254	80	[redacted]
☑ 007	[redacted]	Inactive	192.168.1.64					
□ 009	[redacted]	Active	10.16.6.177	8000	[redacted]	10.16.6.254	80	[redacted]

Select inactive device.

Input and confirm password.

Activate the Device

The device is not activated.

You can modify the network parameters after the device activation.

Activate Now

New Password: ••••••••

Strong

Confirm Password: ••••••••

□ Enable Hik-Connect

Activate

Figure 2-1 Activate via SADP

Status of the device becomes **Active** after successful activation.

5. Modify IP address of the device.
   1) Select the device.
   2) Change the device IP address to the same subnet as your computer by either modifying the IP address manually or checking **Enable DHCP**.
   3) Input the admin password and click **Modify** to activate your IP address modification.

2.2 Activate Device via Client Software

Before You Start

- Get the iVMS-4200 client software from the supplied disk or the official website ***http://www.hikvision.com/en/***. Install the software by following the prompts.
- Get the Guarding Vision client software from the supplied disk. Install the software by following the prompts.
- The device and the PC that runs the software should be in the same subnet.

Steps

1. Run the client software.
2. Enter **Device Management** → **Device** in the **Maintenance and Management** list.
3. Click **Online Device**.
4. Check the device status from the online device list, and select an inactive device.
5. Click **Activate**.
6. Create and confirm the admin password of the device.

⚠**Caution**

STRONG PASSWORD RECOMMENDED-We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

7. Click **OK** to start activation.
   Device status will change to **Active** after successful activation.
8. Edit IP address of the device.
   1) Select a device and click ⊕ on the online device list.
   2) Change the device IP address to the same subnet with your computer.
   3) Enter the admin password of the device and click **OK** to complete modification.
9. Optional: Check the device on the online device list and click **Add** to add the device to the device list.

Chapter 3 Remote Settings

In the client software, go to **Control Panel** → **Device Mnagement**, click and select the device in the **Device for Management**, and click **Remote Configuration** to go to **Remote Configuration** page.

Note

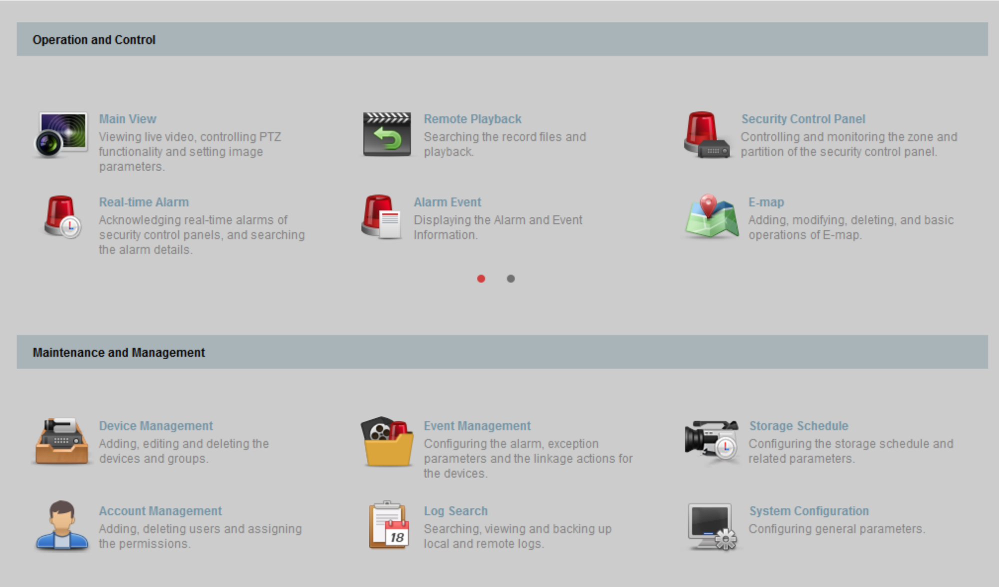
- The device should be activated the first time it is used to log in and use properly. See ***Activation*** to activate the device.
- You need to add the device to the client software before configure it. See ***Add Device to the Client Software***.
- Get the client software from the technical support, and install the software according to the prompts.

3.1 Device Management

3.1.1 Add Device to the Client Software

Before You Start

Activate the device and ensure that the device is on the same subnet as the PC.



Operation and Control

Main View
Viewing live video, controlling PTZ functionality and setting image parameters.

Remote Playback
Searching the record files and playback.

Security Control Panel
Controlling and monitoring the zone and partition of the security control panel.

Real-time Alarm
Acknowledging real-time alarms of security control panels, and searching the alarm details.

Alarm Event
Displaying the Alarm and Event Information.

E-map
Adding, modifying, deleting, and basic operations of E-map.

Maintenance and Management

Device Management
Adding, editing and deleting the devices and groups.

Event Management
Configuring the alarm, exception parameters and the linkage actions for the devices.

Storage Schedule
Configuring the storage schedule and related parameters.

Account Management
Adding, deleting users and assigning the permissions.

Log Search
Searching, viewing and backing up local and remote logs.

System Configuration
Configuring general parameters.

Figure 3-1 Client Software Main Page

In the client software, go to **Device Management** → **Device** on the **Maintenance and Management** list. You can add devices to client software by several methods on the device management page. The following describes how to add devices through IP/Domain Name. For more information, see *iVMS-4200 Client Software User Manual*.

Steps

1. On the **Device** page, click **Add**.
2. Select **IP/Domain** as the adding mode, edit the device information, including **Name**, **Address**, **Port**, **User Name**, and **Password**.
3. Check **Import to Group**.
4. Click **Add** to add the device.

3.1.2 Edit Network Parameters

Edit the device network parameters so that the device IP address is in the same subnet as the computer IP address.

You can edit the network parameters through the SADP software, or the client software. The SADP software is taken as an example for explanation.

Steps

1. Run the SADP software, check the activated device, and edit the **IP Address**, **Subnet Mask**, Gateway and other parameters in the **Modify Network Parameters** list on the right.

   Note

   If check **Enable DHCP**, the device can automatically obtain network parameters.

2. Enter the activation password, click **Modify**, and the prompt ***Modify parameters is successful*** indicate that the settings take effect.

3.2 Network Configuration

3.2.1 Basic Settings

Configure network mode, IP address, NIC and NIC type, subnet mask, gateway, MAC address, MTU settings, and port No. for device.

Before You Start

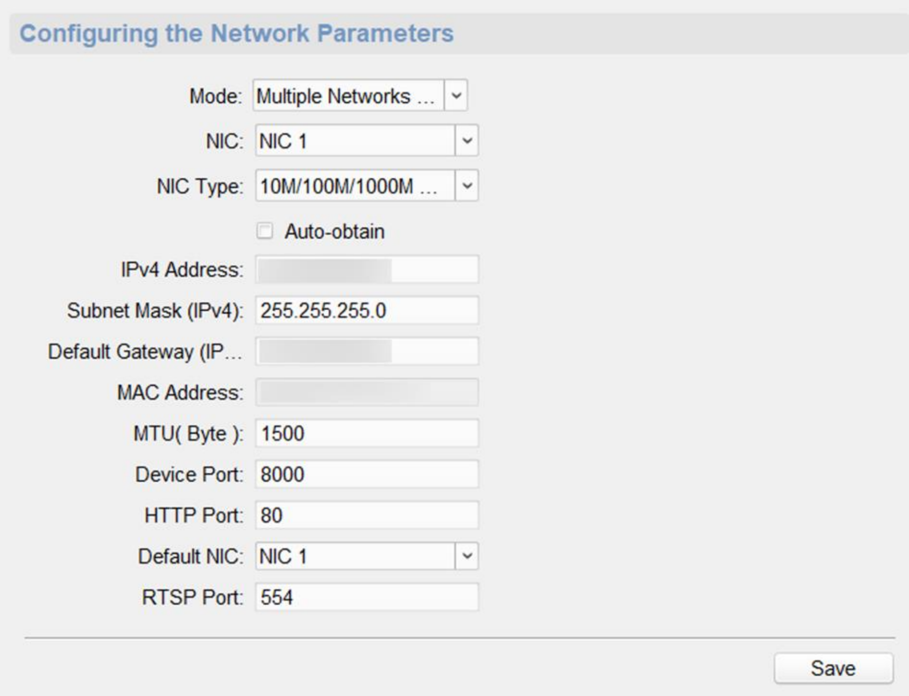
Make sure the cable of the device is connected.

Steps

Note

The network mode is multiple networks mode, you can set the basic network parameters for NIC 1 and NIC 2.

1. On the **Remote Configuration** page, go to **Network** → **General**.



Configuring the Network Parameters

Mode: Multiple Networks ...
NIC: NIC 1
NIC Type: 10M/100M/1000M ...
□ Auto-obtain
IPv4 Address:
Subnet Mask (IPv4): 255.255.255.0
Default Gateway (IP...
MAC Address:
MTU(Byte): 1500
Device Port: 8000
HTTP Port: 80
Default NIC: NIC 1
RTSP Port: 554

Figure 3-2 Network Basic Settings Page

2. Select the NIC and the NIC type.
3. Set the network address.
   - Automatically obtain the network address
     Check **Auto-obtain**, the device automatically obtains the network address (**IPv4 Address**, **Subnet Mask (IPv4)**, **Default Gateway (IPv4)**) through DHCP.

     Note

     NIC 1 and NIC 2 are independent of DHCP.

   - Manually set the network address
     According to the actual network environment, manually set the network address **IPv4 Address**, **Subnet Mask (IPv4)**, **Default Gateway (IPv4)**.
4. Set the **MTU(Byte)**, **Device Port**, **HTTP port**, **RTSP port**, and **Default NIC** for the device.

MTU(Byte)

Maximum transmission unit, which refers to the maximum packet size passed by TCP/UDP protocol network transmission. The default is 1500.

Device Port

The default device port number is 8000.

HTTP port

The default port number is 80, and it can be changed to any port No. which is not occupied.

RTSP port

The default port number is 554 and it can be changed to any port No. ranges from 1 to 65535.

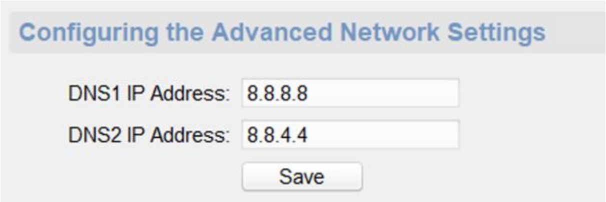
Default NIC

The default NIC is NIC 1 and it can be set to NIC 1 or NIC 2.

5. Click **Save** to save the settings.

3.2.2 Set DNS

When the device accesses the network through the domain name, you need to configure the correct and available DNS server IP address.
The device supports 2 DNS address.
On the **Remote Configuration** page, go to **Network** → **DNS**, set the DNS server IP address and click **Save** to save the settings.



Configuring the Advanced Network Settings

DNS1 IP Address: 8.8.8.8

DNS2 IP Address: 8.8.4.4

Figure 3-3 DNS Setting Page

3.2.3 Set NAT

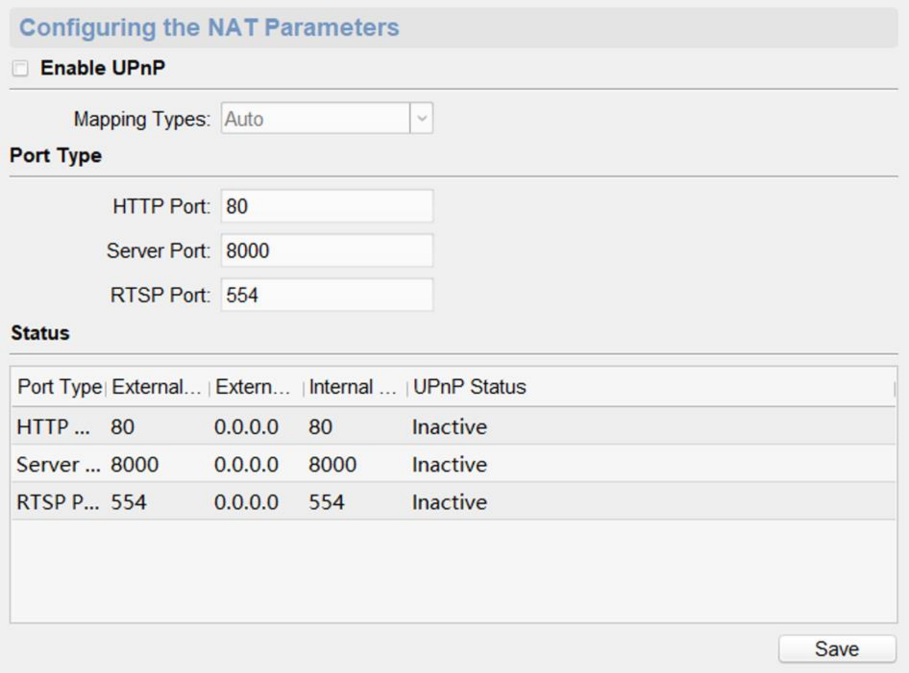
Enable the UPnP function, and you don't need to configure the port mapping for each port, and the device is connected to the Wide Area Network via the router.

Steps

Note

Universal Plug and Play (UPnP™) is a networking architecture that provides compatibility among networking equipment, software and other hardware devices. The UPnP protocol allows devices to connect seamlessly and to simplify the implementation of networks in the home and corporate environments.

1. On the **Remote Configuration** page, go to **Network** → **NAT**.



Configuring the NAT Parameters

□ Enable UPnP

Mapping Types: Auto

Port Type

HTTP Port: 80

Server Port: 8000

RTSP Port: 554

Status

Port Type	External...	Extern...	Internal ...	UPnP Status
HTTP ...	80	0.0.0.0	80	Inactive
Server ...	8000	0.0.0.0	8000	Inactive
RTSP P...	554	0.0.0.0	554	Inactive

Figure 3-4 NAT Setting Page

2. Check **Enable UPnP**, and set **Mapping Types** as **Manual** or **Auto**.
   - Set **Mapping Types** as **Auto**
     The Ports are read-only, and the external ports are set by the router automatically.
   - Set **Mapping Types** as **Manual**
     You can edit the external port on your demand. And then you should enable UPnP function on the router.

Caution

Please do not arbitrarily edit the default port number. If there is a port conflict and you need to edit the port number, please modify the port number as follows.

HTTP Port

By default, the value of the HTTP port No. is 80.

Server Port

By default, the value of the Server port No. is 8000. If the value is changed, you need to enter the server port number on the login page when you log in the device by client software.

RTSP Port

Real-time transport protocol port, please make sure that the port you modified is available. By default, the value of the RTSP port No. is 554.

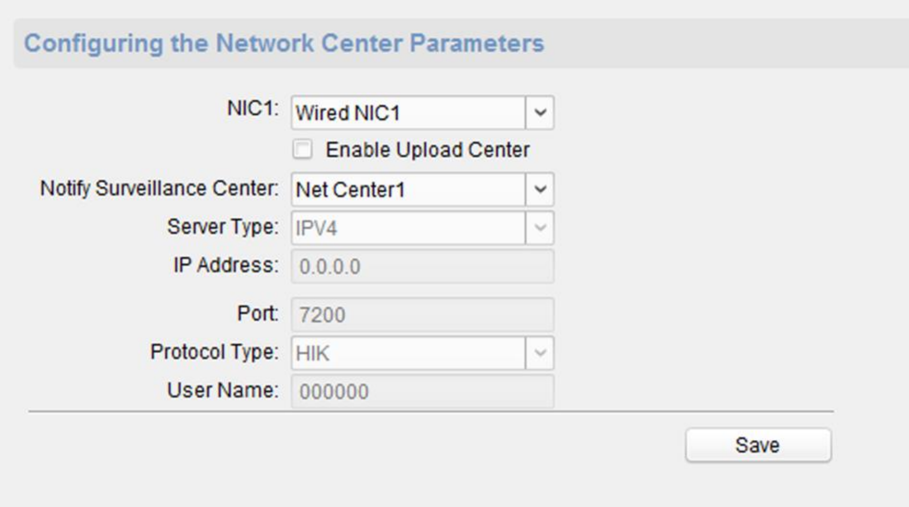
3. Click **Save** to save the settings.

3.2.4 Set Alarm Center

Configure the alarm center. When an alarm is triggered, the alarm information can be uploaded to the configured alarm center.

Steps

1. On the Remote Configuration page, go to **Network** → **Network Center Configure**.



Configuring the Network Center Parameters

NIC1: Wired NIC1

□ Enable Upload Center

Notify Surveillance Center: Net Center1

Server Type: IPV4

IP Address: 0.0.0.0

Port: 7200

Protocol Type: HIK

User Name: 000000

Figure 3-5 Alarm Center Configuration

2. Select a NIC.

Note

The device supports two wired networks and one wireless network. Each network supports uploading alarm information to one alarm center.

3. Check **Enable Upload Center** to enable the alarm center, and set the upload center parameters.

Notify Surveillance Center

Each NIC supports only one upload center, and the default is **Net Center 1**.

Server Type

The address type of the upload center server. You can set **Server Type** as **IP4/IP6** or **Domain Name**.

IP Address/Server Domain Name

Enter the server IP address or server domain name according to the server type you set.

Port

The port number of the upload center. The HIK protocol defaults to 7200; the NAL2300 protocol needs to be set to 4001.

Protocol Type

The default is **HIK**. Can be set to **HIK** or **NAL2300**.

User Name

Supports numbers and letters. The HIK protocol can be set to a length ranging from 6 to 9 digits; the NAL2300 protocol can be set to a length of 6 digits.

Note

If you set the protocol type as **HIK**, you do not need to edit the user name.

4. Click **Save**.

3.2.5 Set SIP

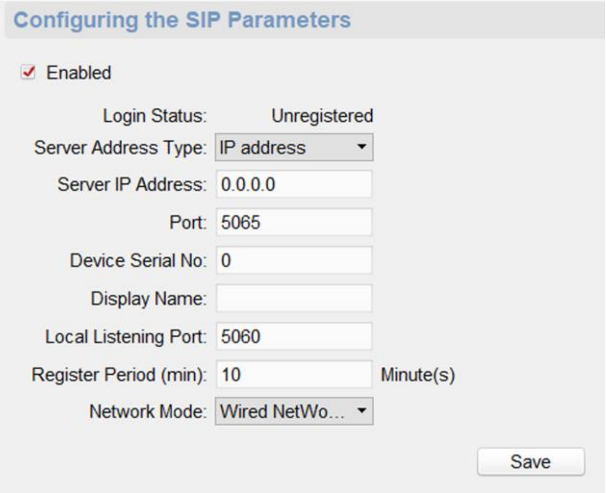
After the SIP server address is set, the device actively registers to the SIP server, and devices under the same SIP server address can communicate with each other.

Steps

1. On the **Remote Configuration** page, go to **Network** → **SIP Settings**.

Note

The SIP parameters need to be configured will vary as the selected intercom protocol type. For intercom protocol settings, please see 3.2.11Set Intercom Parameters.

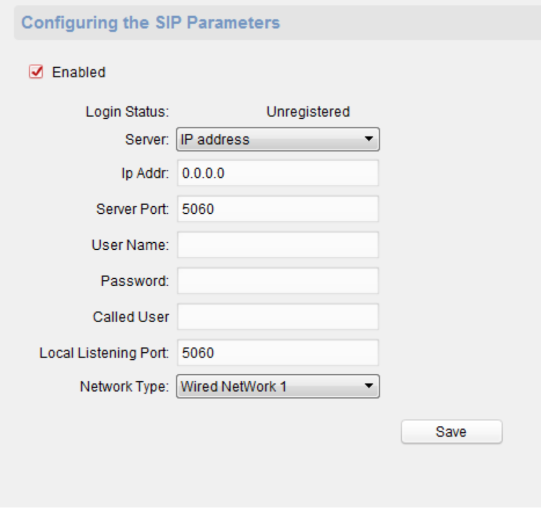


Configuring the SIP Parameters

☑ Enabled

Login Status:	Unregistered
Server Address Type:	IP address
Server IP Address:	0.0.0.0
Port:	5065
Device Serial No:	0
Display Name:	
Local Listening Port:	5060
Register Period (min):	10 Minute(s)
Network Mode:	Wired NetWo...

Figure 3-6 SIP Setting Page (Private Protocol)



Configuring the SIP Parameters

☑ Enabled

Login Status:	Unregistered
Server:	IP address
Ip Addr:	0.0.0.0
Server Port:	5060
User Name:	
Password:	
Called User	
Local Listening Port:	5060
Network Type:	Wired NetWork 1

Figure 3-7 SIP Setting Page (SIP Protocol)

Login Status

Display the status of the device registers to the SIP server.

2. Select the **Server Address Type** as **IP Address** or **Domain Name**.
3. According to the selected address type, enter the IP address or domain name of the SIP server.
4. Set the **Port** and the **Local Listening Port**.

Port

The SIP server port. By default, the private SIP port is 5065 and the standard SIP port is 5060. The available server port number should be between 1024 and 65535.

Local Listening Port

The local port of the device SIP function. By default, the local listening port is 5060. The available port number should be between 1024 and 65535.

5. Configure the SIP parameters according to the selected intercom protocol.
   - If configuring the SIP parameters based on Private Protocol, please set the **Device Serial No.**, **Display Name**, **Local Listening Port Register Period (min)** and **Network Mode**.

If configuring the SIP parameters based on SIP Protocol, please enter the **User Name**, **Password** and **Called User**.

Device Serial No.

Device ID is the unique identification of the device, facilitating the communication between the devices.

Display Name

You can enter the position information of the device for easy management.

Register Period (min)

The interval that the device continuously registers to the SIP server, the register period ranges from 1 to 30 (min).

Network Mode

Select the **Network Mode** as **Wired Network 1**, **Wired Network 2** or **Wireless Network**.

Note

When you select a wired network, the wired network is used regardless of whether the wired network is normal; when you select a wireless network, only the wireless network is used.

User Name

The user name which the device registers to the SIP server.

Password

The password which the device registers to the SIP server.

Called User

The user name of the user which the device calls.

6. Click **Save**.

3.2.6 Data Limit

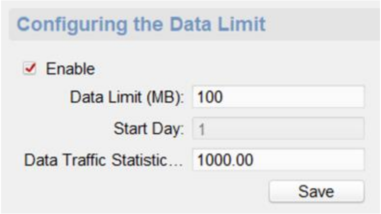
Enable the data limit for the 3G/4G wireless network. Once the data traffic exceeds the set threshold, the data traffic excess alarm is uploaded to the platform and the user will receive a message prompt.

Steps

Note

- The data traffic will be calculated form the first day per month.
- The message prompt should be enabled, please see ***Set Wireless Dialing*** to enable the function.

1. On the **Remote Configuration** page, go to **Network** → **Data Limit**.



Configuring the Data Limit

☑ Enable

Data Limit (MB): 100

Start Day: 1

Data Traffic Statistic... 1000.00

Figure 3-8 Data Limit Configuration Page

2. Check **Enable** to enable the data limit.
3. Set the data limit parameters.

Data Limit (MB)

The threshold of the data traffic.

Start Day

By default, it is 1, that is, the data traffic is calculated form the first day per month.

Data Traffic Statistics (MB)

The total data traffic from the first day to today of the month.

4. Click **Save**.

3.2.7 Set Wireless Dialing

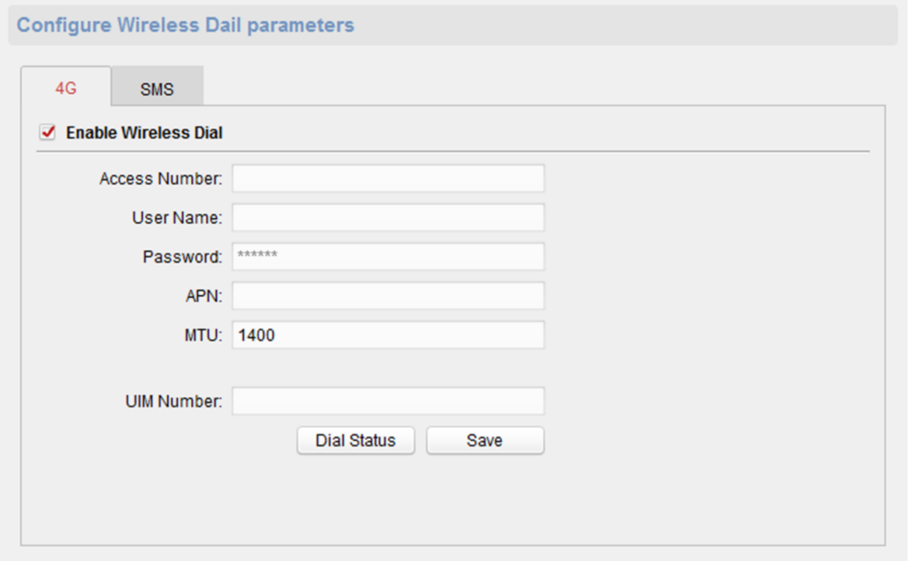
Enable the wireless dial function, and you can use the wireless network for data/image transmission.

Before You Start

Connect the wireless communication module to the device.

Steps

1. On the **Remote Configuration** page, go to **Network** → **Wireless Dialing Settings**.



☑ Enable Wireless Dial

Access Number:

User Name:

Password: ******

APN:

MTU: 1400

UIM Number:

Figure 3-9 Data Limit

2. Click **4G** and check **Enable Wireless Dial** to enable the wireless dial.
3. Set the **Access Number**, **User Name**, **Password**, **APN** and **MTU**.

Note

You can also leave these parameters blank, and the device will adopt the default settings for dialing after other parameters are configured.

4. Enter the UIM Number.
5. Click **Dial Status** to view the dial status, including **Real-time Mode**, **UIM Status**, **Signal Quality**, etc.
6. Click **Save**.
7. Optional: Enable the message prompt function.
   1) Click **SMS**.
   2) Check **Enable SMS Alarm**.
   3) Set the mobile phone number and click **Edit Permission** to edit the permission of this mobile phone number.

   Smart Event

   When smart event is triggered, the mobile phone number will receive an alarm message.

   Data Traffic

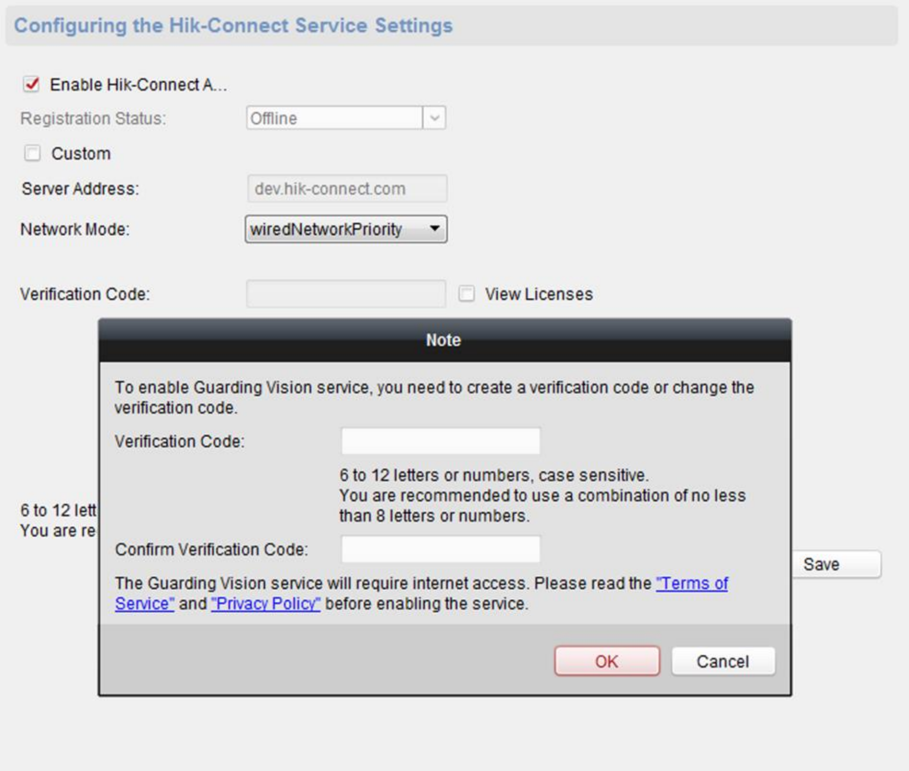
   When the wireless network traffic is excessive, the mobile phone number will receive an alarm message.

3.2.8 Set Hik-Connect

Enable Hik-Connect service and you can add the device to Hik-Connect.

Steps

1. On the **Remote Configuration** page, go to **Network** → **Hik-Connect Service Settings**.



Configuring the Hik-Connect Service Settings

☑ Enable Hik-Connect A...

Registration Status: Offline

☐ Custom

Server Address: dev.hik-connect.com

Network Mode: wiredNetworkPriority

Verification Code: ☐ View Licenses

6 to 12 lett

You are re

Note

To enable Guarding Vision service, you need to create a verification code or change the verification code.

Verification Code:

6 to 12 letters or numbers, case sensitive.
You are recommended to use a combination of no less than 8 letters or numbers.

Confirm Verification Code:

The Guarding Vision service will require internet access. Please read the "Terms of Service" and "Privacy Policy" before enabling the service.

Figure 3-10 Hik-Connect Service Setting Page

2. Check **Enable Hik-Connect Access** and enter the verification code to enable Hik-Connect service.
3. Optional: If you want to edit **Server Address**, check **Custom** and enter the server address.

Note

The default server address is ***dev.hik-connect.com***.

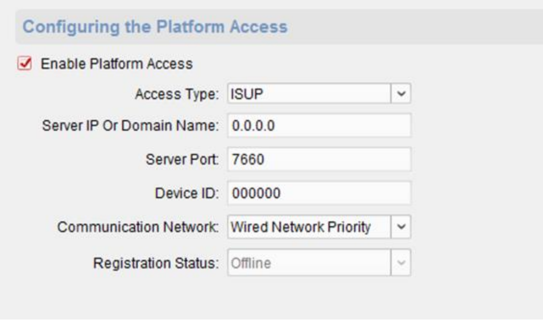
4. Select **Network Mode**.
5. Enter a verification code and click **Generate QR code**.
   There will be a QR code displaying on the page.
6. Click **Save**.
7. Scan the QR code via Hik-Connect and the device will be added to Hik-Connect.

3.2.9 Access the Platform

Platform access provides you an option to manage the devices via platform.

Steps

1. On the **Remote Configuration** page, go to **Network** → **Platform Access**.



Configuring the Platform Access

☑ Enable Platform Access

Access Type: ISUP

Server IP Or Domain Name: 0.0.0.0

Server Port: 7660

Device ID: 000000

Communication Network: Wired Network Priority

Registration Status: Offline

Figure 3-11 Platform Access Configuration

2. Check **Enable Platform Access** to enable the Platform Access function.
3. Set the platform access parameters.

Access Type

Select the platform to be accessed.

Server IP or Domain Name

Enter the IP address or domain name of the platform.

Server Port

Enter the port number of the platform.

Device ID

Device ID is the unique identification of the device.

Communication Network

Select the network mode for communication with platform.

Registration Status

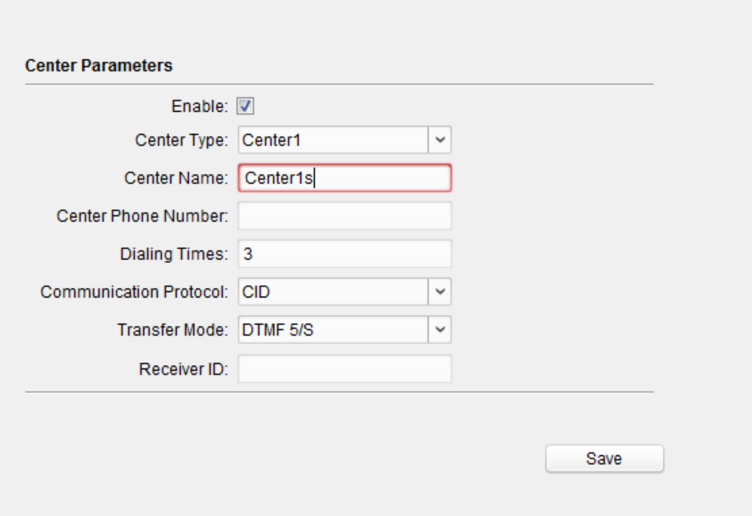
Display the status which the device registers to the platform.

4. Click **Save**, and you can access to the device via platform.

3.2.10 Set Call Center Parameters

Steps

1. On the **Remote Configuration** page, go to **Network** →**Configure call center parameters**.



Center Parameters

Enable: ☑

Center Type: Center1

Center Name: Center1s

Center Phone Number:

Dialing Times: 3

Communication Protocol: CID

Transfer Mode: DTMF 5/S

Receiver ID:

Save

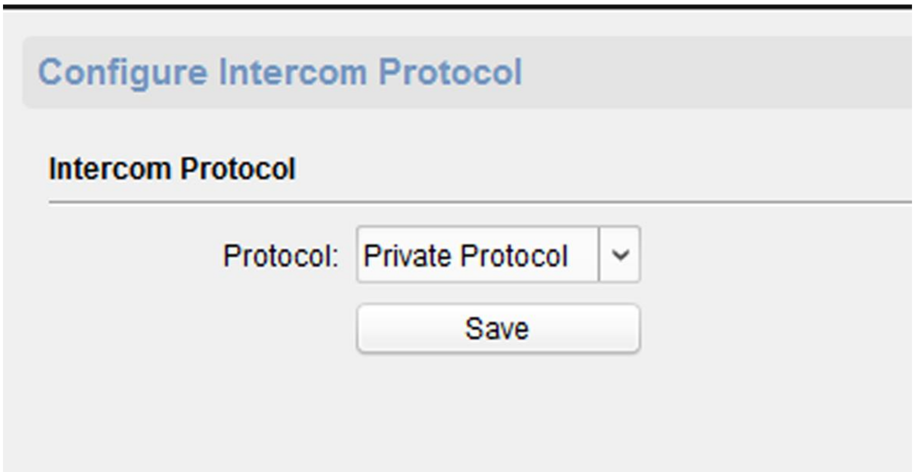
Figure 3-12 Set Call Center Parameters

2. Check to enable the function
3. Set call center parameters including center type, center name, phone number, dialing times, communication protocol, transfer mode, and receiver ID.
3. Click **Save**.

3.2.11Set Intercom Parameters

Steps

1. On the **Remote Configuration** page, go to **Network** → **Intercom Protocol**.



Configure Intercom Protocol

Intercom Protocol

Protocol: Private Protocol

Save

Figure 3-12 Intercom Parameters Configuration

2. Select the **Protocol** as **SIP Protocol** or **Private Protocol**.
3. Click **Save**.

   The device will reboot automatically after switching the protocol successfully.

3.3 Alarm Settings

3.3.1 Set Zone

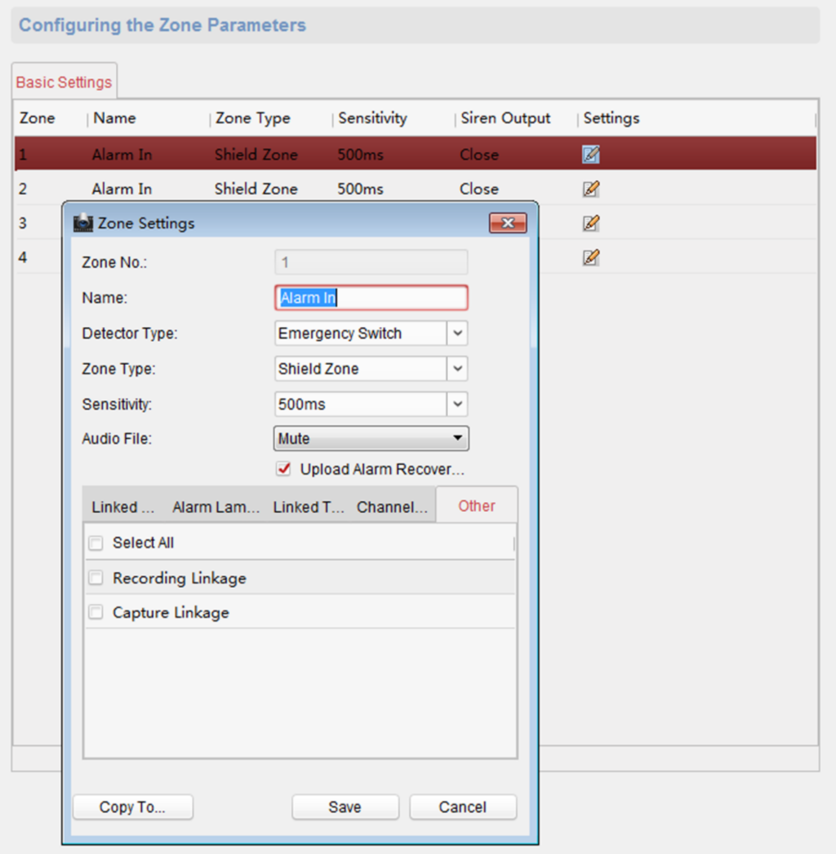
The device supports four alarm input zones and two default zones (emergency call help and consulting). You need to configure zone parameters.

Steps

Note

The default zone has a default zone type, default audio file, and the default zone will automatically upload an alarm recovery report. These three parameters (**Zone Type**, **Audio File** and **Upload Alarm Recovery Report**) do not need to be set.

1. In the client software, go to **Control Panel** → **Device Management**, select the device in the device list, and click **Remote Configuration**.
2. Go to **Input** → **Zone**.



Configuring the Zone Parameters

Basic Settings

Zone	Name	Zone Type	Sensitivity	Siren Output	Settings
1	Alarm In	Shield Zone	500ms	Close	✎
2	Alarm In	Shield Zone	500ms	Close	✎
3					✎
4					✎

Zone Settings

Zone No.: 1

Name: Alarm In

Detector Type: Emergency Switch

Zone Type: Shield Zone

Sensitivity: 500ms

Audio File: Mute

☑ Upload Alarm Recover...

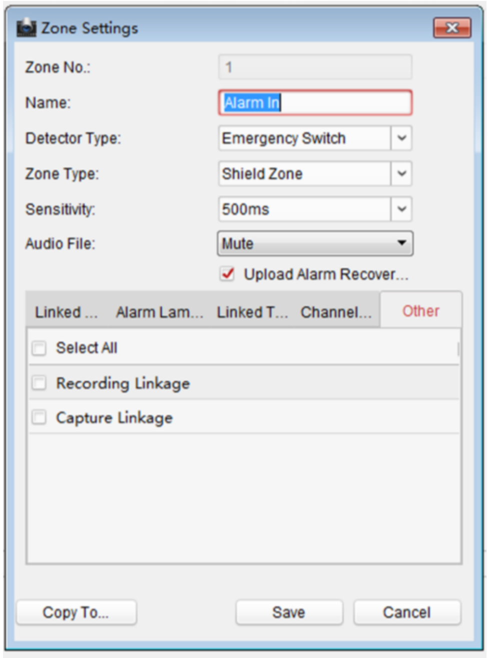
□ Select All

□ Recording Linkage

□ Capture Linkage

Figure 3-13 Zone Configuration Page

3. Select an zone, click ✎.



Zone Settings

Zone No.: 1

Name: Alarm In

Detector Type: Emergency Switch

Zone Type: Shield Zone

Sensitivity: 500ms

Audio File: Mute

☑ Upload Alarm Recover...

Figure 3-14 Set Zone Parameters

4. Set zone parameters.

Name

Zone name.

Detector Type

The detector type of the zone.

Zone Type

Four zone type can be set for Non-default zones: Instant Zone, Fire Zone, 24-hour Non-voiced Zone, Shield Zone.

Instant Zone

In the armed state, as long as the detector connected to the zone is triggered, an alarm is generated immediately without delay.

Fire Zone

The fire zone must be set to a 24-hour alarm zone. When the fire zone is triggered, start the external siren/sounder.

24-hour Non-voiced Zone

The detector working in 24-hour non-voiced zone is in an alert state for 24 hours, and will not be affected by the disarming operation. Once triggered, the information is immediately uploaded to the center with no alarm sound.

Shield Zone

No events will trigger an alarm.

Sensitivity

The default value is 500 ms.

Audio File

Select an audio file for zone.

Upload Alarm Recovery Report

If check **Upload Alarm Recovery Report**, the report will be uploaded to the center when the alarm is restored.

5. Select the zone linkage.

Linked Siren
After the zone is triggered, the selected siren sounds.

Alarm Lamp
After the zone is triggered, the selected alarm lamp is on.

Linked Relay
After the zone is triggered, the selected trigger outputs.

Note

The relay output can set the output delay time, that is, when the zone is triggered, the trigger outputs a signal, and the trigger will turn off the output after the output delay time ends. Please refer to the user manual for the output delay time setting.

Channel
After the zone is triggered, the selected video channel is linked.

Other
You can select **Recording Linkage** and **FTP Linkage**.

Recording Linkage

After the zone is triggered, the event video is recorded.

FTP Linkage

After the zone is triggered, the event image is captured.

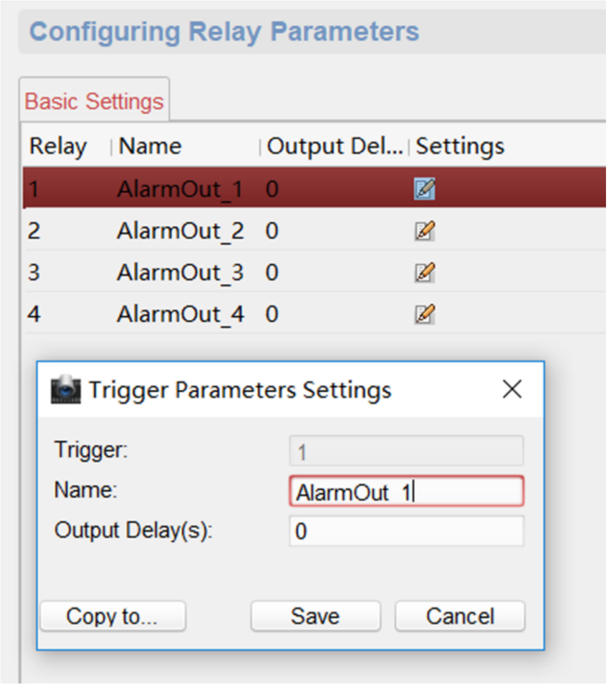
6. Optional: Click **Copy to...**, copy the zone parameter configuration to other zones.
7. Click **Save**.

3.3.2 Set Relay

Configure the relay parameters, include the relay name and the output delays.

Steps

1. On the **Remote Configuration** page, go to **Output Settings** → **Relay**.
2. Select a relay and click ✎, set the relay parameters.



Configuring Relay Parameters

Basic Settings

Relay	Name	Output Del...	Settings
1	AlarmOut_1	0	✎
2	AlarmOut_2	0	✎
3	AlarmOut_3	0	✎
4	AlarmOut_4	0	✎

Trigger Parameters Settings

Trigger: 1

Name: AlarmOut_1

Output Delay(s): 0

Figure 3-15 Relay Configuration Page

Name

The relay name.

Output Delay(s)

The output delay time, can be set from 0 to 2000s. After the zone event is triggered, the relay will turn off the relay output after the output delay time is ended.

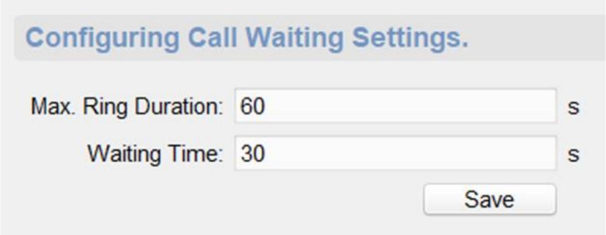
3. Click **Save**.
4. Optional: Click **Copy to...**, you can copy the relay settings to other relays.

3.3.3 Set Call Waiting

Configure the call waiting parameters, include the maximum ring duration and waiting time.

Steps

1. On the **Remote Configuration** page, go to **Output Settings** → **Waiting**.



Configuring Call Waiting Settings.

Max. Ring Duration: 60 s

Waiting Time: 30 s

Figure 3-16 Call Waiting Settings Page

2. Set the call waiting parameters.

Max. Ring Duration

The playback time of the calling tone when calling, can be set from 40 s to 80 s.

Waiting Time

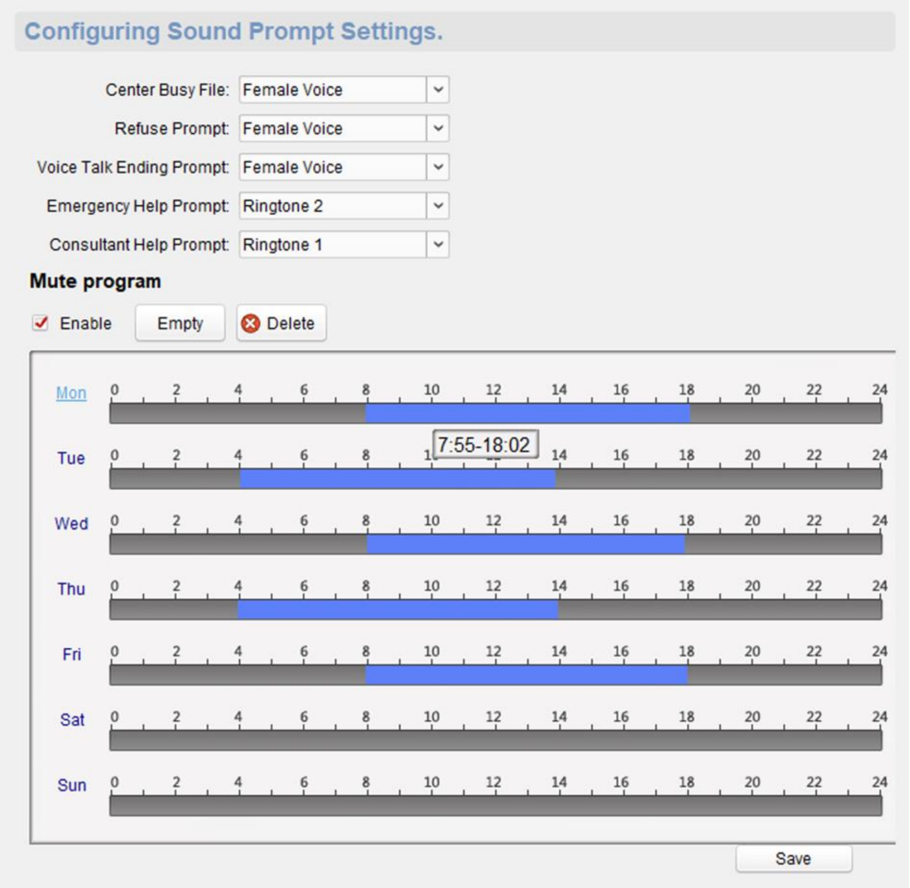
The extended playback time of the prompt tone based on the maximum ring time when calling the master station and pressing the call waiting button, can b set from 10 seconds to 60 s.

3. Click **Save**.

3.3.4 Set Voice Prompt

Steps

1. On the **Remote Configuration** page, go to **Output Settings** → **Voice Prompt**.



Configuring Sound Prompt Settings.

Center Busy File: Female Voice

Refuse Prompt: Female Voice

Voice Talk Ending Prompt: Female Voice

Emergency Help Prompt: Ringtone 2

Consultant Help Prompt: Ringtone 1

Mute program

☑ Enable

Figure 3-17 Voice Prompt Configuration Page

2. Set the **Center Busy File**, **Refuse Prompt**, **Voice Talk Ending Prompt**, **Emergency Help Prompt**, and **Consultant Help Prompt**.
3. Optional: Configure the mute program.
   1) Check **Enable** to enable the mute program.
   2) Click and drag the mouse on the time bar to draw the scheduled time period.

3) Optional: Edit the time period.

- Modify the time period
  Click and select the added time period, drag to modify the time period position; click and select the added time period, then moves the cursor to both ends of the time period, when the cursor becomes a double arrow, you can drag the mouse left and right to modify the time period.
- Delete one time period
  Click and select the time period, and click **Delete** to delete the selected time period.
- Delete all time periods
  Click **Empty** to delete all time periods.

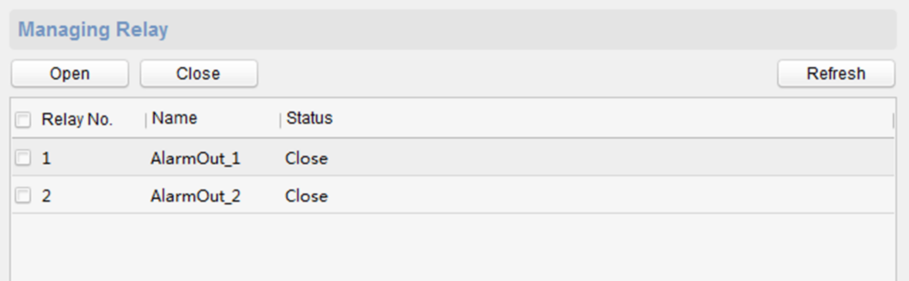
The device will be muted during the configured time period.

4. Click **Save**.

3.4 Alarm Management

3.4.1 Manage Relay

Open or close the relay via client software.
On the **Remote Configuration** page, go to **Alarm Management** → **Relay**



□ Relay No.	Name	Status
□ 1	AlarmOut_1	Close
□ 2	AlarmOut_2	Close

Figure 3-18 Relay Management Page

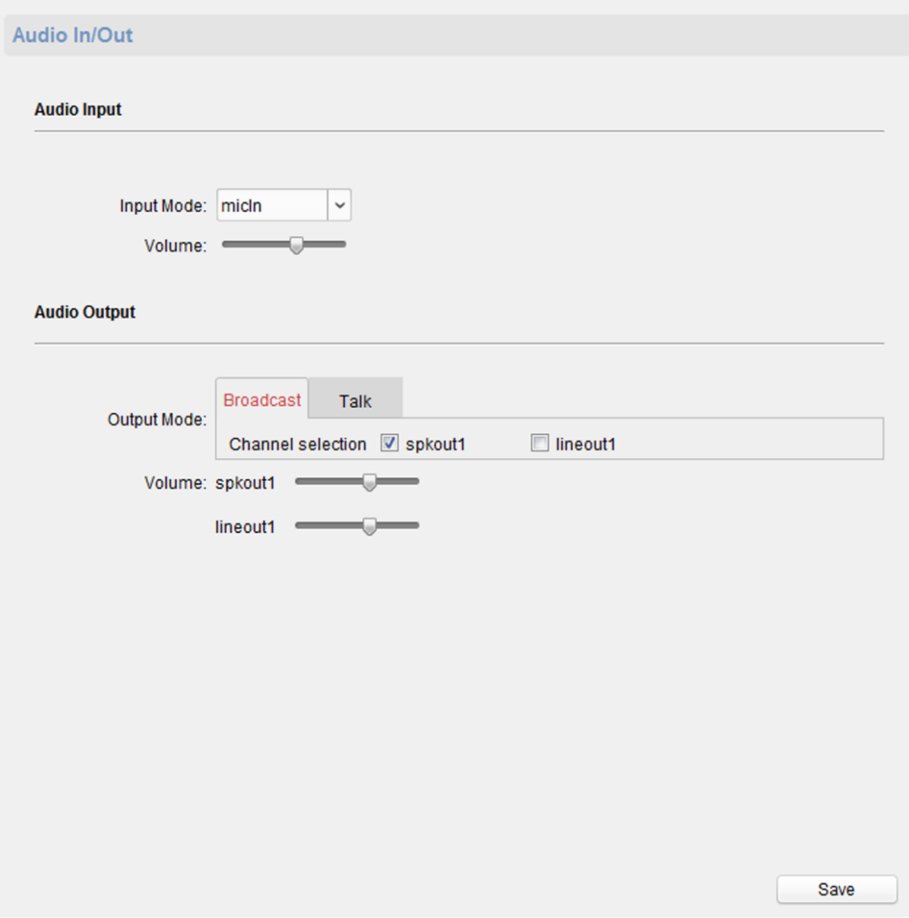
Check the relays that need to be turned on/off. Click **Open**/**Close** to change the relay switch status. Click **Refresh**, you can refresh the relay switch status.

3.4.2 Manage Audio Input/Output

Configure the audio input/audio output mode and the volume of the corresponding mode.

Steps

1. On the **Remote Configuration** page, go to **Alarm Management** → **Audio In/Out**.



Audio In/Out

Audio Input

Input Mode: micIn

Volume:

Audio Output

Output Mode: Broadcast | Talk

Channel selection ☑ spkout1 □ lineout1

Volume: spkout1

lineout1

Figure 3-19 Alarm Input/Output Configuration Page

2. Set the audio input/output mode and volume.

Note

- **spkOut** is the device's own audio input/output. **lineOut1** are 3.5mm hole interfaces, which can connect to the external microphones and speakers. The device defaults to **micIn** and **spkOut**.

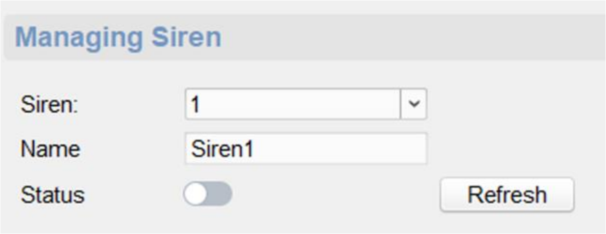
3. Click **Save**.

3.4.3 Manage Siren

Open/Close the siren via the client software.

Steps

1. On the Remote Configuration page, go to **Alarm Management** → **Siren**.



Siren: 1

Name Siren1

Status

Figure 3-20 Siren Management Page

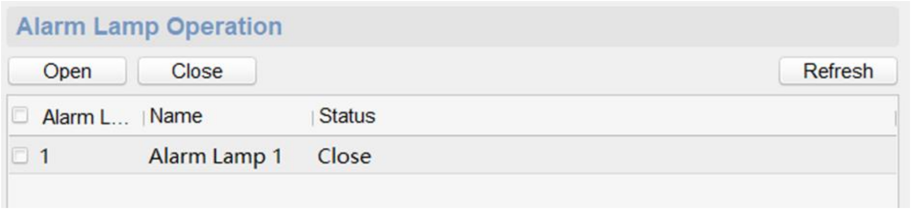
2. Select a siren and enable **Status** to open the siren, or disable **Status** to close the siren.
3. Optional: Click **Refresh** to refresh the siren status.

3.4.4 Manage Strobe Light

Open/Close the strobe lamp via the client software.

Steps

1. On the Remote Configuration page, go to **Alarm Management** → **Strobe Light**.



□ Alarm L...	Name	Status
□ 1	Alarm Lamp 1	Close

Figure 3-21 Strobe Light Management Page

2. Check the strobe light in the list, and click **Open**/**Close** to open or close the selected strobe light.
3. Optional: Click **Refresh** to refresh the strobe light status.

3.4.5 Manage Audio File

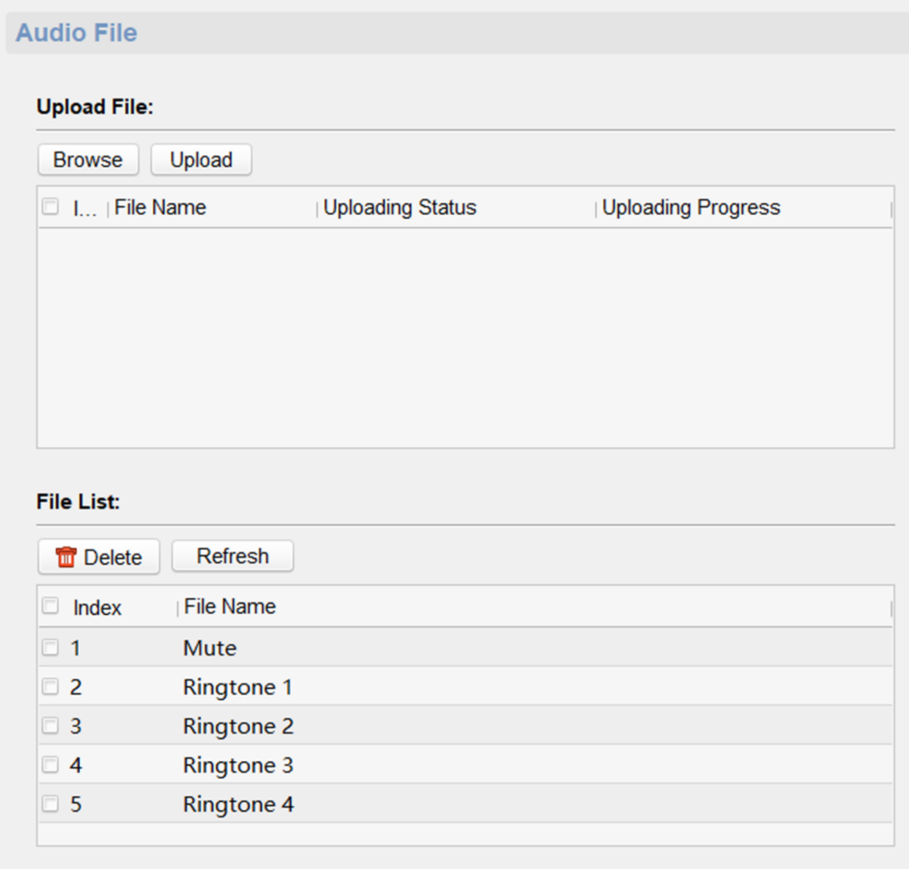
Upload the custom audio files to SD card, and delete the audio file in the SD card.

Before You Start

Insert the SD card into the device.

Steps

1. On the Remote Configuration page, go to **Alarm Management** → **Audio File**.



□	I...	File Name	Uploading Status	Uploading Progress

□	Index	File Name
□	1	Mute
□	2	Ringtone 1
□	3	Ringtone 2
□	4	Ringtone 3
□	5	Ringtone 4

Figure 3-22 Audio File Management

2. Upload the custom audio files.
   1) Click **Browse** to select the audio file (can be selected in batch).
   2) Check the audio file in the **Upload File** list and click **Upload**.

Note

- Supported Audio file format: .mp3 and .wav (8 kHz, 16 bit, and single track). The file name can't contain spaces at the beginning and end. The length of the file name should be not more than 31, and the file name can not contain symbols: ?\/*”<>|.
- Each audio file size up to 2MB, and up to 16 audio files are uploaded.
- An audio file will be overwritten if uploading an audio file with the same name.

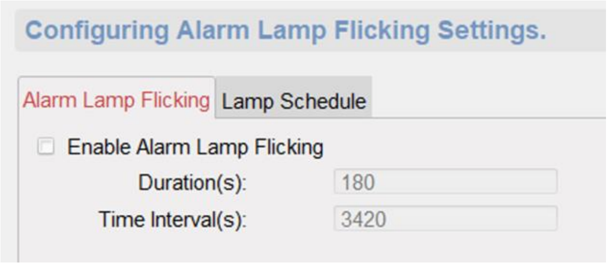
3. Optional: Delete the audio files in the SD card.
   1) In the **File List**, click **Refresh** to display the audio files.
   2) Check the audio file needs to be deleted, click **Delete**.
   The function using the deleted audio files will restore the default audio file configuration.

3.4.6 Manage Strobe Light Flicking

Enable the strobe light flicking, and you can configure the strobe light flicking schedule.

Steps

1. On the Remote Configuration page, go to **Alarm Management** → **Alarm Lamp Flicking**.
2. You can enable the strobe light flicking or configure the schedule.
   - Enable the strobe light flicking
     Click **Alarm Lamp Flicking**. Check **Enable Alarm Lamp Flicking** to enable flicking, and set the duration and interval of the strobe light flicking.



Configuring Alarm Lamp Flicking Settings.

□ Enable Alarm Lamp Flicking

Duration(s): 180

Time Interval(s): 3420

Figure 3-24 Strobe Light Flicking Page

   - Enable the strobe light flicking schedule
     You can configure the strobe light flicking schedule for the device, and the strobe light will flick in the scheduled time.
     Click **Lamp Schedule**. Check **Enable Lamp Schedule** to enable schedule, click **Open Lamp** and drag the mouse to draw the time period for opening the strobe light.

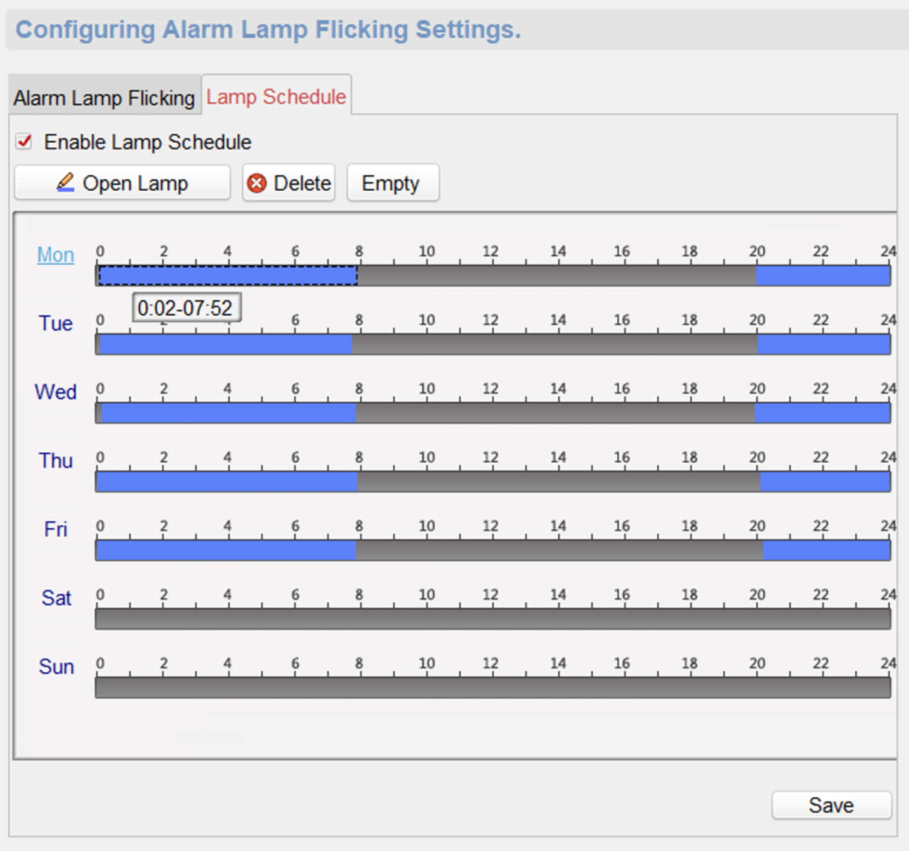


Figure 3-25 Strobe Light Flicking Schedule

Note

You can delete the drawn time period.

- Select a time period, and click **Delete** to delete it.
- Click **Empty** to delete all time period.

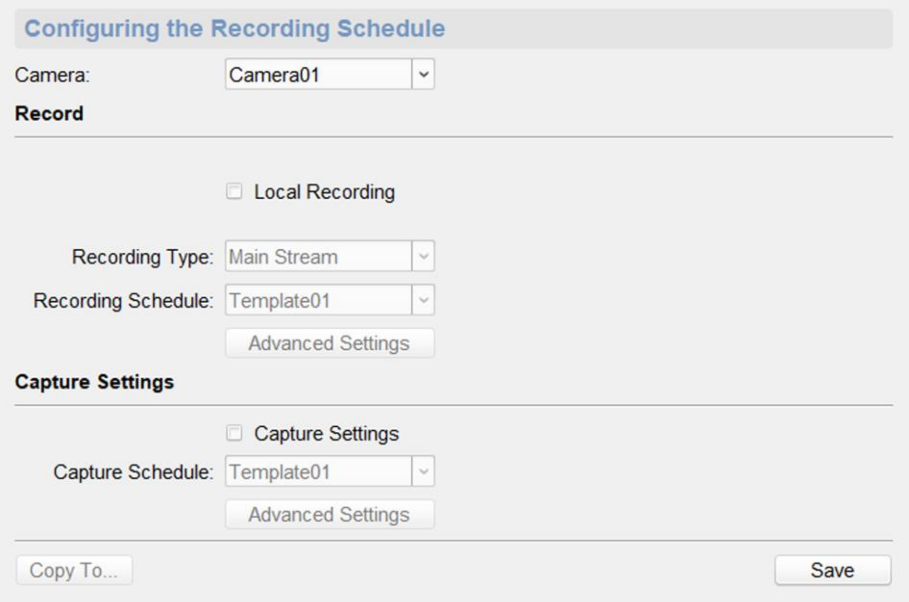
3. Click **Save**.

3.5 Event Settings

3.5.1 Schedule Settings

Configure the recording and capture schedule.

On the **Remote Configuration** page, go to **Event** → **Schedule**.



Configuring the Recording Schedule

Camera: Camera01

Record

□ Local Recording

Recording Type: Main Stream

Recording Schedule: Template01

Capture Settings

□ Capture Settings

Capture Schedule: Template01

Figure 3-26 Schedule Configuration Page

Select a camera, and configure the record and capture schedule. Click **Save** to save the settings.

Note

The panic alarm station without camera does not support capture schedule configuration.

Record schedule configuration

Local Recording

Check **Local Recording** to enable the recording.

Recording Type

Main Stream and **Sub Stream** is optional.

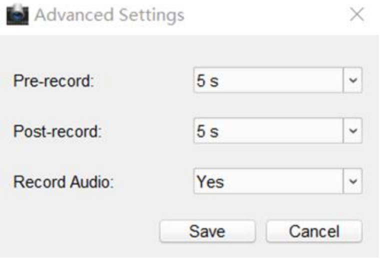
Recording Schedule

Click the drop-down box of **Recording Schedule**, and configure the recording schedule. There are three schedules.

- The schedule template (not editable) that comes with the system, such as all-day template, weekday template and event template.
- Editable schedule template01 to template08. For detailed edit method, see ***Set System Schedule***.
- Custom schedule. For detailed edit method, see ***Set Custom Schedule***.

Advanced Settings

Click **Advanced Settings** and set the pre-recording time, Post-recording time, and record audio as needed.



Advanced Settings

Pre-record: 5 s

Post-record: 5 s

Record Audio: Yes

Figure 3-27 Advanced Settings of Record

Pre-record

The pre-recording time can be selected as **5 s** or **not pre-record**.

Post-record

The delay recording time can be selected as **5 s or 10 s**.

Record Audio

The record audio can be set as **Yes** or **No**. If you select **Yes**, record file will contain audio.

Capture schedule configuration

Capture Settings

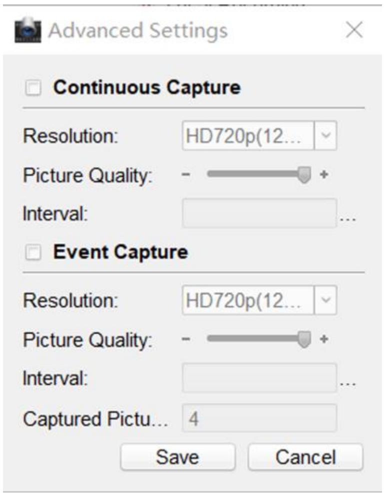
Check **Capture Settings** to enable the capture schedule.

Capture Schedule

Click the drop-down box of **Capture Schedule**, and configure the capture schedule. The settings of capture schedule is the same as the settings of recording schedule.

Advanced Settings

Click **Advanced Settings** and configure the capture settings.



Advanced Settings

□ Continuous Capture

Resolution: HD720p(12...

Picture Quality:

Interval:

□ Event Capture

Resolution: HD720p(12...

Picture Quality:

Interval:

Captured Pictu... 4

Figure 3-28 Advanced Settings of Capture

- Continuous capture configuration
  Check **Continuous Capture** to enable the timed capture function, which can capture the

image at regular intervals according to the set interval.

Resolution

Select the picture resolution. By default, it is **HD720p(1280×720)**.

Picture Quality

Set the picture quality. The higher the value, the better the picture quality.

Interval

Timed capture based on this time interval.

- Event capture configuration
  Check **Event Capture** to enable the event capture function, which can capture multiple pictures when an event is triggered.

Resolution

Select the picture resolution. By default, it is **HD720p(1280×720)**.

Picture Quality

Set the picture quality. The higher the value, the better the picture quality.

Interval

The interval between the two event captures.

Captured Picture Number

The total number of the event capture.

Set System Schedule

Steps

1. Select and click the text box of system editable template (**Template01** to **Template08**).

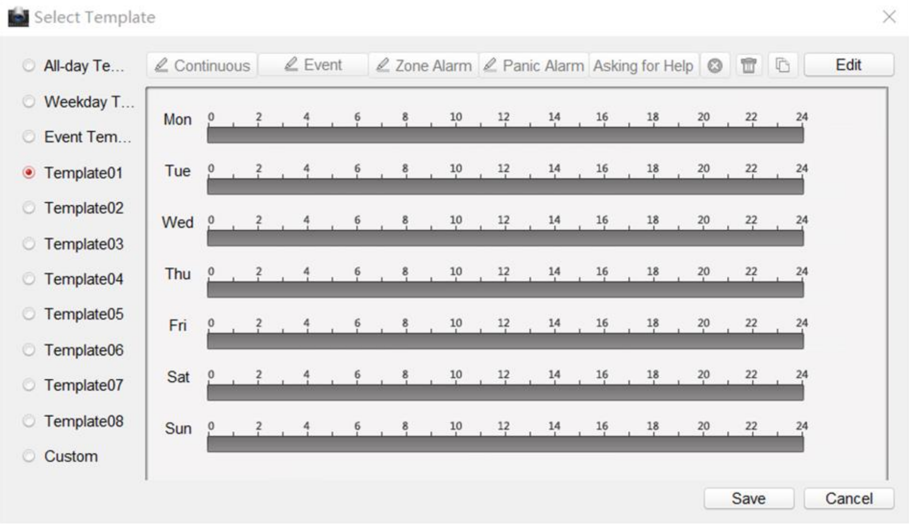


Figure 3-29 Selection the System Template

2. Click **Edit** to go to the editing page.

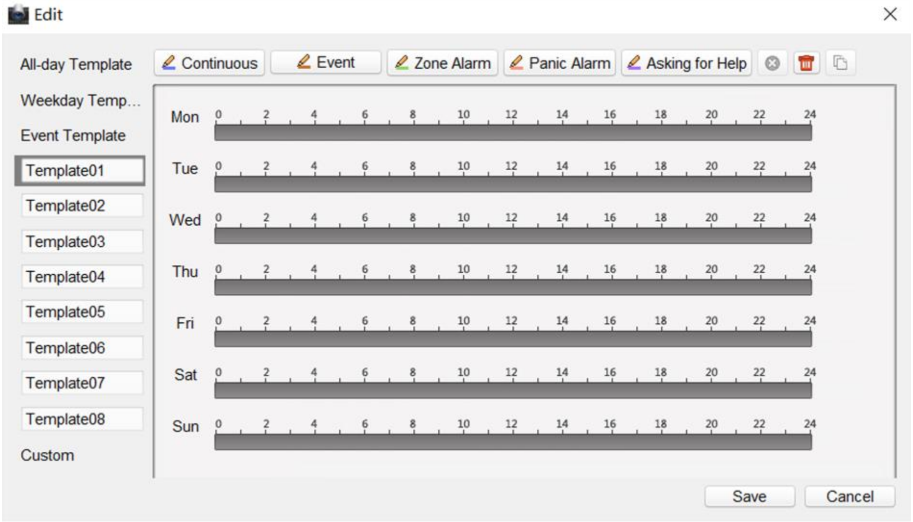


Figure 3-30 System Template Editing Page

3. Optional: Select the schedule type.
   - **Continuous**: Regardless of whether an event is triggered or not, the system records video according to the scheduled recording time period.
   - **Event**: The event is recorded during the scheduled recording time period when the event is triggered.
   - **Zone**: If an alarm occurs in the zone and the channel linkage of the zone is set, the event is recorded during the scheduled recording time period.

     Note

     You can refer to ***Set Zone*** for channel linkage settings.

   - **Panic Alarm/ Asking for Help**: The panic alarm /asking for help event is recorded during scheduled recording time period when there is a panic alarm call for help.

   Note

   If the schedule template does not have the schedule type selection button, you can skip this step.

4. Move the mouse to the time bar. When the cursor changes to a pen, click and drag the mouse within the time bar to draw the schedule time period.

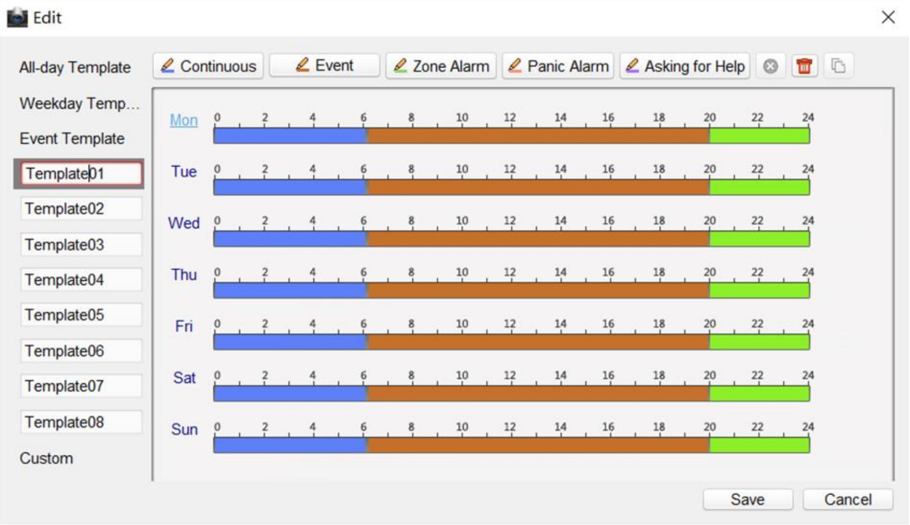


Figure 3-31 Draw a schedule time period

5. Edit the schedule time period.

Modify the time period
Move the mouse to the time period that has been drawn. When the cursor changes to the hand, click the drag time period to modify the time period position; move the mouse to the end of the drawn time period, when the cursor changes to double arrow, you can drag the mouse to modify the time period.

Delete a time period
Select the time period, and click ⊗ to delete it.

Delete all time period
Click 🗑 to delete all.

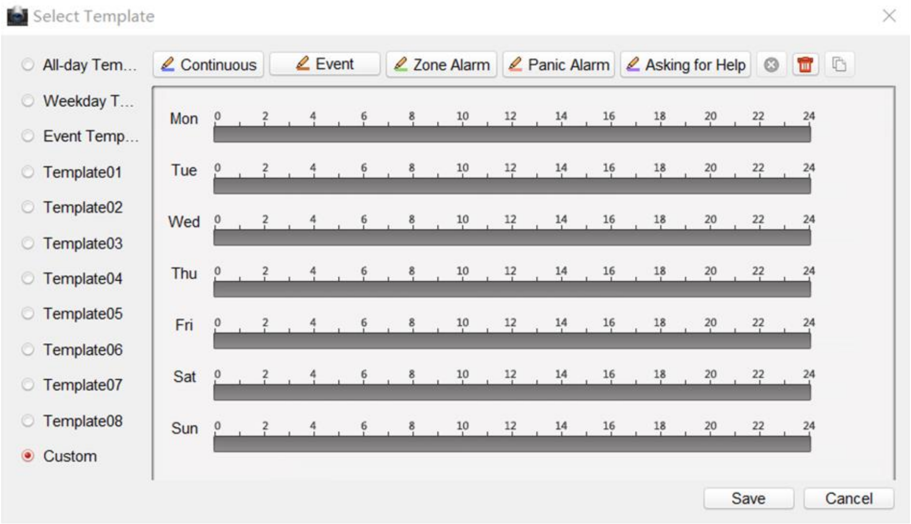
Copy the time period
Select the time period and click ⧉, you can check the day and copy the current time period to the checked day.

6. Click **Save**.

Set Custom Schedule

Steps

1. Check **Custom** to go to the custom schedule editing page.



Select Template

○ All-day Tem...
○ Weekday T...
○ Event Temp...
○ Template01
○ Template02
○ Template03
○ Template04
○ Template05
○ Template06
○ Template07
○ Template08
● Custom

Figure 3-32 Custom Schedule Editing Page

2. Draw the schedule time period. For detailed, see***Set System Schedule***.

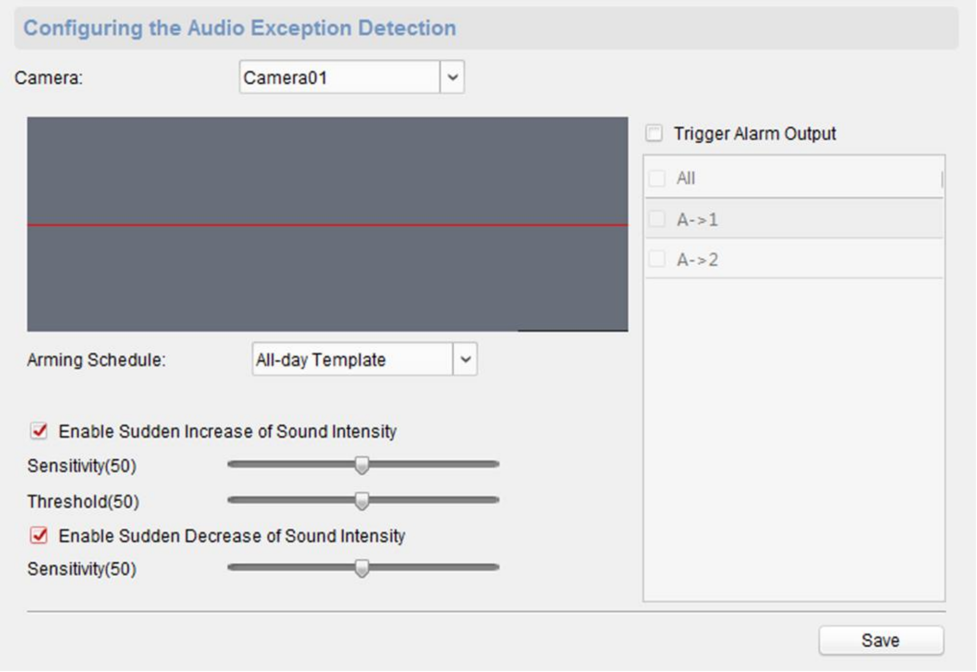
3. Click **Save**.

3.5.2 Set Audio Exception Detection

Audio exception detection means that when the sound in the environment is detected as sudden increase of sound intensity or sharp decrease of sound intensity, an alarm output will be triggered.

Steps

1. On the **Remote Configuration** page, go to **Event** → **Audio Exception Detection**



Configuring the Audio Exception Detection

Camera: Camera01

Arming Schedule: All-day Template

☑ Enable Sudden Increase of Sound Intensity

Sensitivity(50)

Threshold(50)

☑ Enable Sudden Decrease of Sound Intensity

Sensitivity(50)

□ Trigger Alarm Output

□ All

□ A->1

□ A->2

Figure 3-33 Audio Exception Detection Configuration Page

2. According to actual needs, select and check **Enable Sudden Increase of Sound Intensity**, **Enable Sudden Decrease of Sound Intensity**. And set the parameters.

Note

Sensitivity(50) and **Thresholds(50)** can be set from 1 to 100 and default to 50.

3. Click the drop-down box of **Arming Schedule** and set the arming schedule for audio exception detection.

Note

There are three schedules.

- The schedule template (not editable) that comes with the system, such as all-day template, weekday template and event template.
- Editable schedule template01 to template08. For detailed edit method, see ***Set System Schedule***.
- Custom schedule. For detailed edit method, see ***Set Custom Schedule***.

4. Check **Trigger Alarm Output**, select and check the alarm output signal that is linked when the audio exception is detected.
5. Click **Save**.

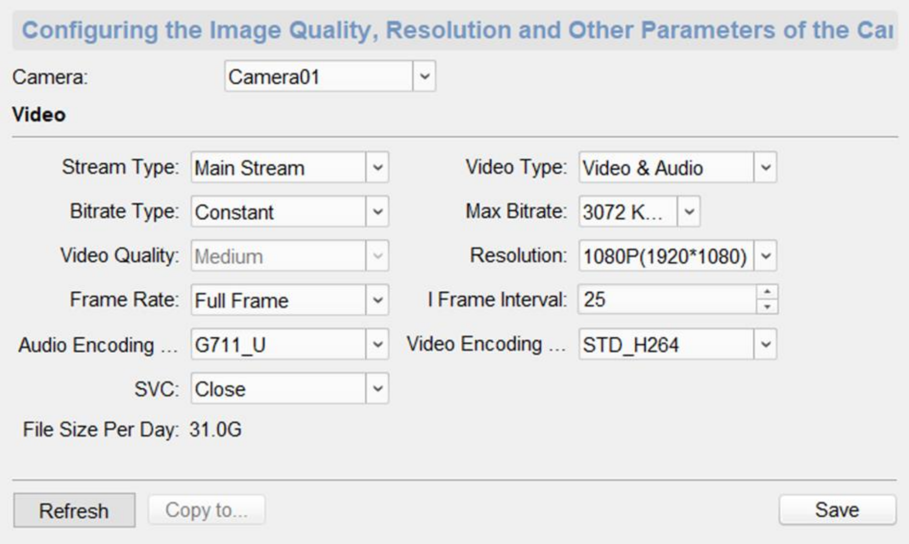
Result

During the configured arming schedule, the audio anomaly event is detected according to the enabled detection items, and the selected alarm output signal is linked when the audio exception is detected.

3.6 Video & Audio Settings

3.6.1 Video & Audio Settings

Configure the image quality, resolution and other parameters of the camera.
On the **Remote Configuration** page, click **Image** → **Video & Audio**.



Configuring the Image Quality, Resolution and Other Parameters of the Cai

Camera: Camera01

Video

Stream Type:	Main Stream	Video Type:	Video & Audio
Bitrate Type:	Constant	Max Bitrate:	3072 K...
Video Quality:	Medium	Resolution:	1080P(1920*1080)
Frame Rate:	Full Frame	I Frame Interval:	25
Audio Encoding ...	G711_U	Video Encoding ...	STD_H264
SVC:	Close		

File Size Per Day: 31.0G

Figure 3-34 Video & Audio Configuration Page

Select a camera, and set the video and audio parameters. Click **Save** to save the settings.

Note

- You can click **Copy to...** to copy the parameters to other camera.
- After editing the video and audio parameters, the device won't reboot.
- Please combine the actual demand and storage capacity to configure the video and audio parameters.

Stream Type

The stream type of camera can be set as **Main Stream** or **Sub Stream**. By default, it is **Main Stream**. The main stream is used for HD storage and preview; the sub stream is used for SD storage and preview when the network bandwidth is insufficient.

Video Type

The video type can be set as **Video** or **Video & Audio**. By default, it is **Video & Audio**, where video contains sound and images. If you don't need sound, choose **Video Stream**.

Bitrate Type

The bitrate type can be set as **Constant** or **Variable**. By default, it is **Constant**, where you should select a constant value from the **Bitrate** drop-down box. You are supposed to select the maximum bitrate when the bitrate type is set as **Variable**.

Video Quality

You are able to choose different level of the video quality. The video quality is not optional by default when the bitrate type is **Constant**.

Resolution

According to the requirements for video clarity, the higher the resolution, the higher the bandwidth requirement for the network.

Frame Rate

Video frames per second. According to the actual bandwidth setting, the higher the video frame rate, the higher the required bandwidth and the higher the required storage space.

I Frame Interval

The number of frames between the two key frames before and after. The larger the I frame interval is, the smaller the code stream fluctuation is, but the image quality is relatively poor. Otherwise, the code stream fluctuation is larger and the image quality is higher. It is recommended to use the default value.

Audio Encoding Type

When the stream type is the **Main Stream**, the audio encoding type can be set as **G711_U**, **G726**, or **AAC**. And the audio encoding type of the sub stream is the same as the audio encoding type set in the main stream.

Video Encoding Type

By default, it is **STD_H264**.

SVC

It is a scalable video coding technology. The SVC function can be used for framed video recording to reduce storage space. The framed video file still supports normal decoding. When the SVC function is selected to be **On**, both the storage device and the decoding device must be required to support the function. When the SVC function is selected as **Auto**, the device will adapt to the current network environment and decide whether to send framed video to ensure that the image can be previewed normally.

File Size Per Day

According to the video and audio parameters, the video file size of the whole day will be automatically calculated.

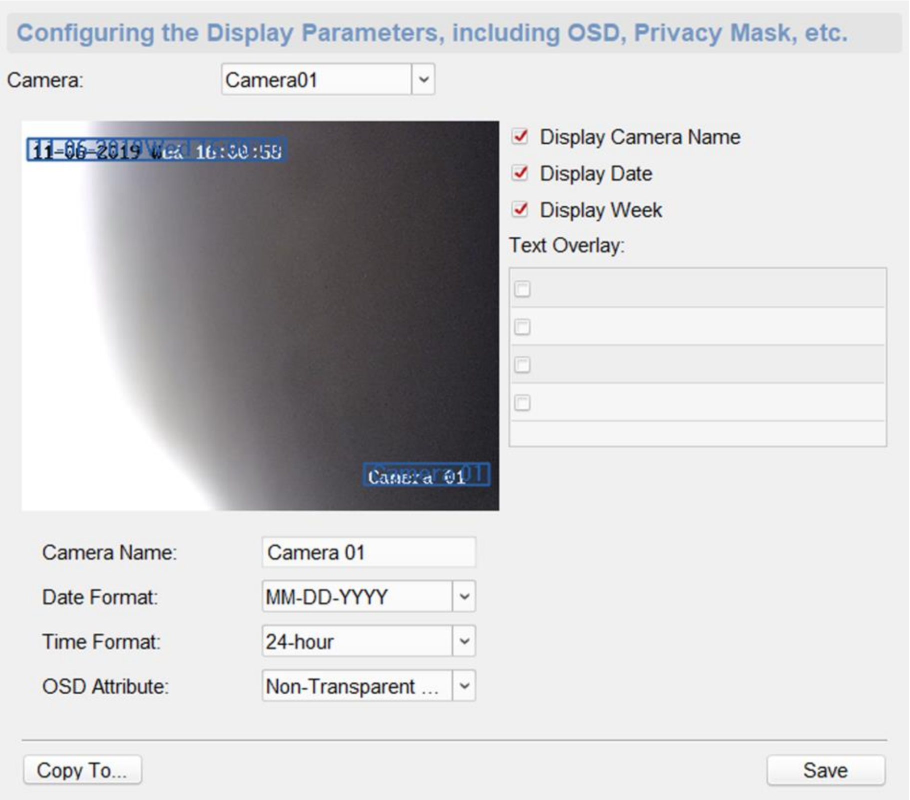
Note

- After the video and audio parameters are changed, the device won't reboot.
- Please combine the actual demand and storage capacity to configure the video and audio parameters.

3.6.2 Set Display

Edit the display information of the camera.

On the **Remote Configuration** page, go to **Image** → **Video Display**.



Configuring the Display Parameters, including OSD, Privacy Mask, etc.

Camera: Camera01

☑ Display Camera Name
☑ Display Date
☑ Display Week

Text Overlay:

□
□
□
□

Camera Name: Camera 01

Date Format: MM-DD-YYYY

Time Format: 24-hour

OSD Attribute: Non-Transparent ...

Figure 3-35 Video Display Configuration Page

Select a camera from the drop-down box to configure the display parameters of the camera, including display position, display format and optional display content, you are able to add custom display information.

Editing the display position

Drag the blue box on the live view page to change the position of the display information, click **Save**, and then the position of the display information will be updated.

Editing the display format

Date Format

Select the display format of the date in the **Date Format Drop-Down** box.

Time Format

Select **Time Format** as **24-hour** or **12-hour**.

OSD Format

There are four freely combined display status to choose from depending on whether the display information is transparent or flashing. For example, when the display status is **Transparent & Blinking**, the displayed information will be displayed with a certain transparency and will flash. .

Editing the display content

You are able to select the display content optionally, edit the camera name, and add the custom display content.

- Selecting the display content

  According to your requirement, check **Display Camera Name**, **Display Date**, **Display Week** to display the selected display content. Click **Save** to save the settings.
- Editing the camera name

  Editing the camera name in the Camera Name text box and click **Save**.
- Adding custom display content

  Click the right area of the check box in the **Text Overlay** List and enter display content in the text box. Check the text and click **Save** to display the custom information.

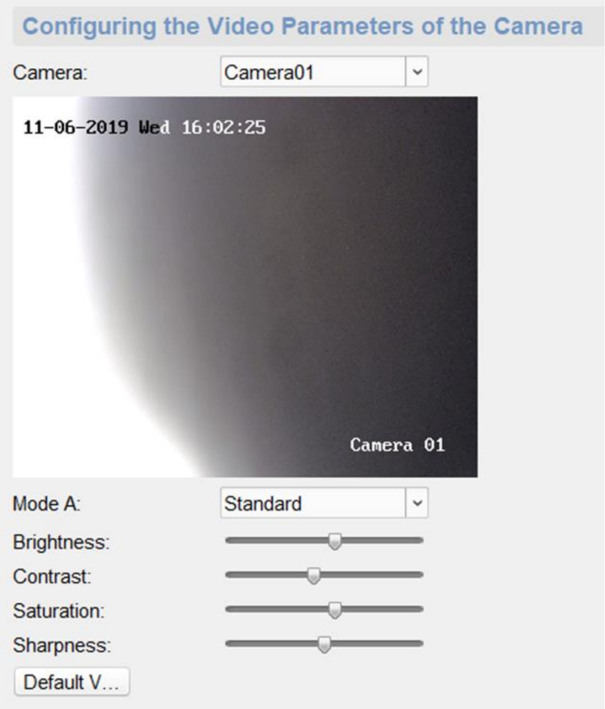
Note

You can drag the content to modify the location, or remove the check to cancel the display.

3.6.3 Set Image Parameters

For the device with camera, you can set the image parameters for camera.

On the **Remote Configuration** page, go to **Image** → **Image Settings**.



Configuring the Video Parameters of the Camera

Camera: Camera01

Mode A: Standard

Brightness:

Contrast:

Saturation:

Sharpness:

Figure 3-36 Image Settings Page

Select a camera to configure the video parameters, including brightness, contrast, saturation and sharpness.

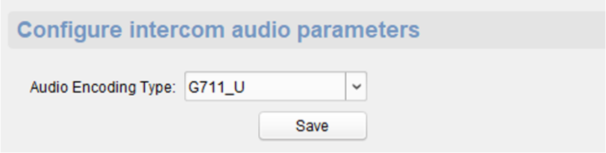
Note

- By default, the brightness is 6, the contrast is 5, the saturation is 6, the sharpness is 50.

Click **Default Value**, you can restore all video parameters to default.

3.6.4 Set Intercom Audio

On the **Remote Configuration** page, go to **Image** → **Intercom Audio**.



Configure intercom audio parameters

Audio Encoding Type: G711_U

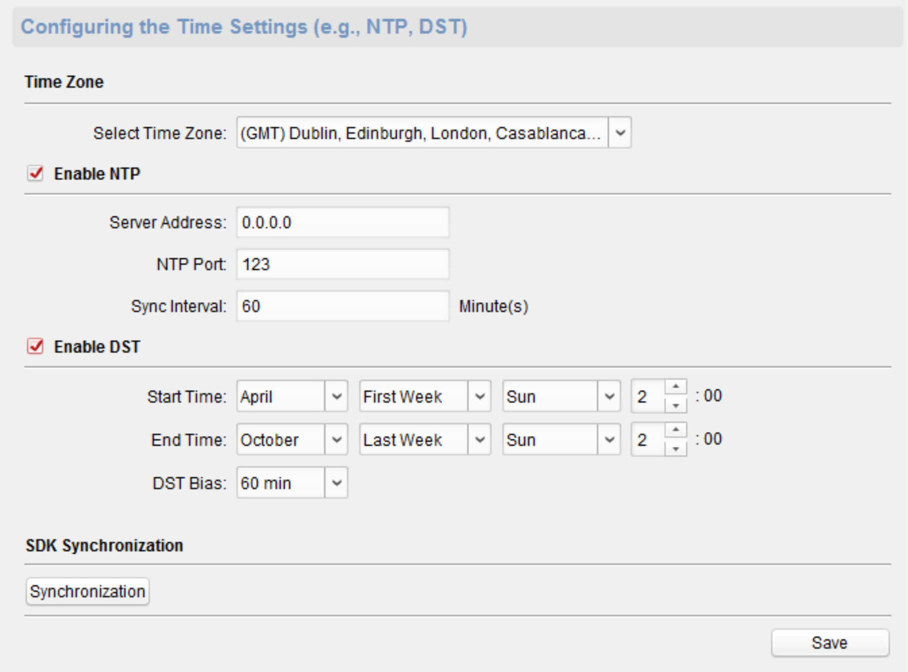
Figure 3-37 Intercom Audio Configuration Page

Select the **Audio Encoding Type** as **G711_U**, **G726**, **AAC**, **or OPUS** from the drop-down box. And click **Save** to save the settings.

3.7 System Settings

3.7.1 Set Time

On the **Remote Configuration** page, go to **Device Information** → **Time**.



Configuring the Time Settings (e.g., NTP, DST)

Time Zone

Select Time Zone: (GMT) Dublin, Edinburgh, London, Casablanca...

☑ Enable NTP

Server Address: 0.0.0.0

NTP Port: 123

Sync Interval: 60 Minute(s)

☑ Enable DST

Start Time: April First Week Sun 2 : 00

End Time: October Last Week Sun 2 : 00

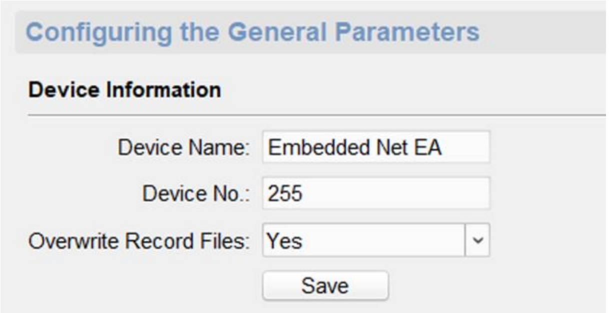
DST Bias: 60 min

SDK Synchronization

You can set the time zone, NTP, DST on the Time page.
You can also click Synchronization to implement SDK synchronization.

3.7.2 Set System Parameters

Set the device name, device No. and configure the video files.
On the **Remote Configuration** page, go to **System** → **General Parameters**.



Configuring the General Parameters

Device Information

Device Name: Embedded Net EA

Device No.: 255

Overwrite Record Files: Yes

Figure 3-38 System Parameters Setting Page

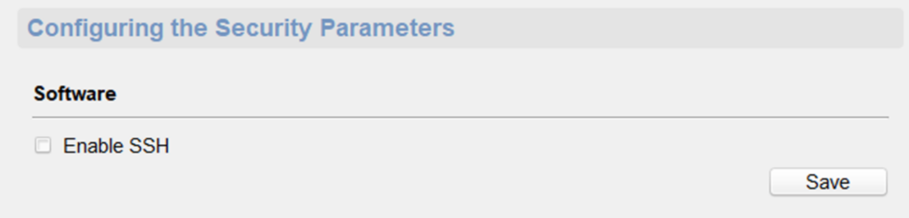
Set the device name and device No., and select **Yes** or **No** from the **Overwrite Record Files** drop-down box. Click **Save** to save the settings.

Note

Select **Overwrite Record Files** as **Yes**, the new video file will overwrite the earliest video file when the device storage is full.

3.7.3 Set Security

Enable/disable SSH service, which is used to provide security configuration for remote debugging.
On the **Remote Configuration** page, go to **System** → **Security**.



Configuring the Security Parameters

Software

□ Enable SSH

Figure 3-39 Security Parameters Configuration Page

Check **Enable SSH** to enable SSH service, and click **Save**.

Note

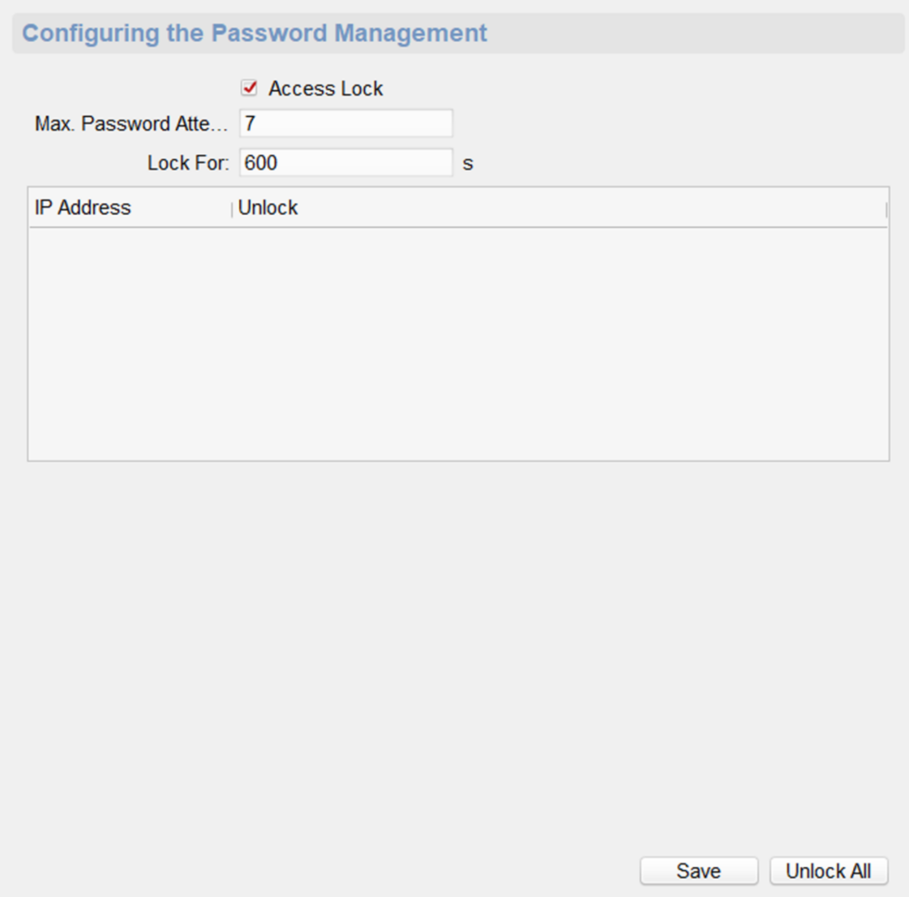
By default, the SSH service is not enabled. The default setting will be restored after the restart.

3.7.4 Set Password

Set the maximum password attempts, the lock duration of the locked user. And you can unlock the user remotely.

Steps

1. On the **Remote Configuration** page, go to **System** → **Password Management**.



Configuring the Password Management

☑ Access Lock

Max. Password Atte... 7

Lock For: 600 s

IP Address	Unlock

Figure 3-40 Password Management Page

IP Address

The IP address of the terminal in which the locked user logs.

Unlock

The user's access lock status on the corresponding IP address.

2. Enable the access lock function and set the lock parameters.
   1) Check **Access Lock** to enable the access lock function.
   2) set the user lock parameters, including maximum password attempts and lock duration.

Max. Password Attempts

The maximum times that the user attempts to enter the password. By default, it is 7, the available value is 3 to 10.

Lock For

The lock duration of the locked user. By default, it is 600 s, the available value is 10 to 3600 s.

3) Click **Save**.

3. Optional: Click **Unlock All** to unlock all user.

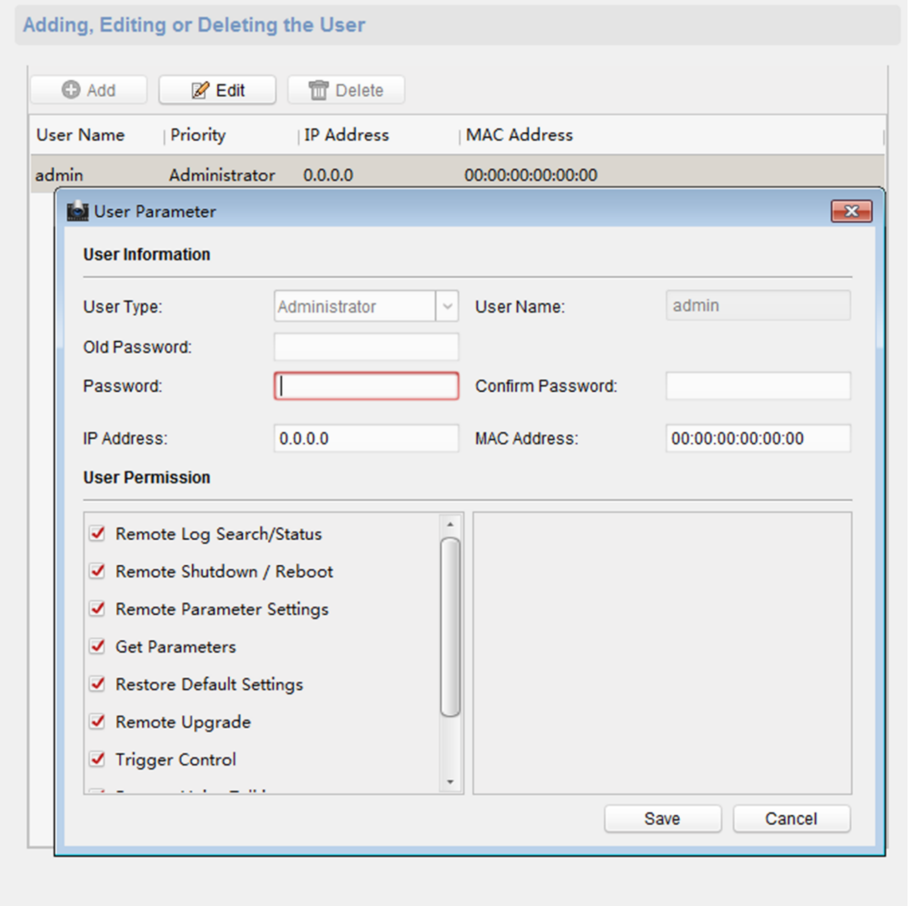
3.7.5 Set User

Steps

Note

The device only has the admin user and only supports modifying the admin user password.

1. On the **Romte Configuration** page, go to **System** → **User**.
2. Edit the admin user password.
   1) Select the admin user and click **Edit**.
   2) Enter the new password and confirm it.
   3) Click **Save**.



Adding, Editing or Deleting the User

User Name	Priority	IP Address	MAC Address
admin	Administrator	0.0.0.0	00:00:00:00:00:00

User Parameter

User Information

User Type: Administrator

User Name: admin

Old Password:

Password:

Confirm Password:

IP Address: 0.0.0.0

MAC Address: 00:00:00:00:00:00

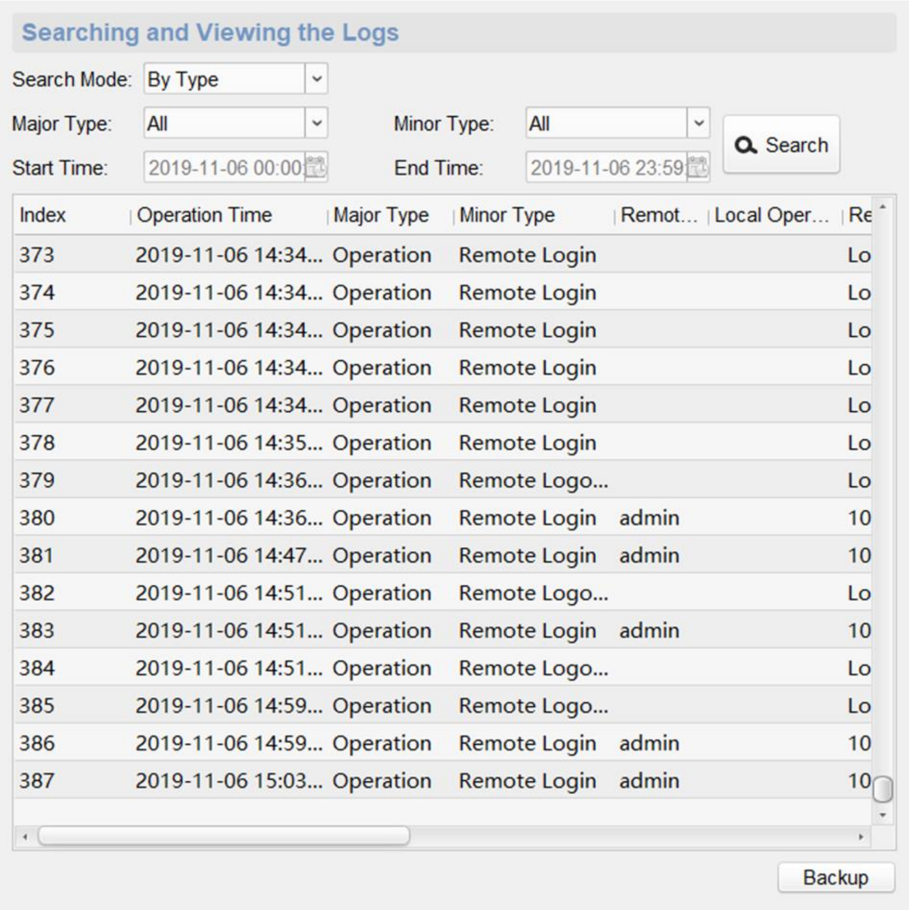
User Permission

☑ Remote Log Search/Status
☑ Remote Shutdown / Reboot
☑ Remote Parameter Settings
☑ Get Parameters
☑ Restore Default Settings
☑ Remote Upgrade
☑ Trigger Control

Figure 3-41 Edit Admin User

3.7.6 Search for Log

Search and view the alarm logs, exception logs, operation logs and event logs.
On the **Remote Configuration** page, go to **System** → **Log**.
You can set the search criteria and click **Search**, and the search result is in the list.



Searching and Viewing the Logs

Search Mode: By Type

Major Type: All

Minor Type: All

Start Time: 2019-11-06 00:00

End Time: 2019-11-06 23:59

Index	Operation Time	Major Type	Minor Type	Remot...	Local Oper...	Re
373	2019-11-06 14:34...	Operation	Remote Login			Lo
374	2019-11-06 14:34...	Operation	Remote Login			Lo
375	2019-11-06 14:34...	Operation	Remote Login			Lo
376	2019-11-06 14:34...	Operation	Remote Login			Lo
377	2019-11-06 14:34...	Operation	Remote Login			Lo
378	2019-11-06 14:35...	Operation	Remote Login			Lo
379	2019-11-06 14:36...	Operation	Remote Logo...			Lo
380	2019-11-06 14:36...	Operation	Remote Login	admin		10
381	2019-11-06 14:47...	Operation	Remote Login	admin		10
382	2019-11-06 14:51...	Operation	Remote Logo...			Lo
383	2019-11-06 14:51...	Operation	Remote Login	admin		10
384	2019-11-06 14:51...	Operation	Remote Logo...			Lo
385	2019-11-06 14:59...	Operation	Remote Logo...			Lo
386	2019-11-06 14:59...	Operation	Remote Login	admin		10
387	2019-11-06 15:03...	Operation	Remote Login	admin		10

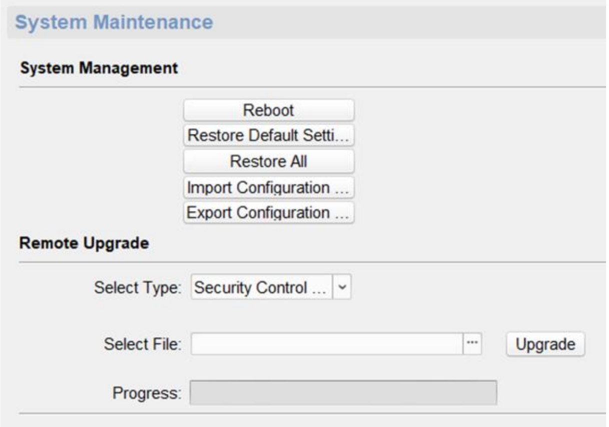
Figure 3-42 Search and View the Log

Note

You can click **Backup** and download the search result.

3.7.7 Maintain the System

System management and remote upgrade.
On the **Remote Configuration** page, go to **System** → **System Maintenance**.



Select Type: Security Control ...

Figure 3-43 System Maintenance Page

System Management

You can reboot the device, restore default settings, restore all settings, and import/export configuration file.

Reboot

Restart the device.

Restore Default Settings

Restore the default settings, that is, except the IP address and user information, all other parameters of the device will be restored to factory default settings.

Restore All

Restore all the parameters to factory default settings, and the device needs to be reactivated after restoring the parameters to default.

Import Configuration File

Import the configuration file from the client software to the device.

Note

The configuration file contains the parameter information of the device.
It is required to enter the password created when exporting when import a file.

Export Configuration File

Export the configuration file from the device to the client software.

Note

The configuration file contains the parameter information of the device.
It is required to set a password for the exported file. The password is used for importing verification.

Remote Upgrade

Upgrade the device remotely via the client software.
Click ⋯ and select the upgrading file. And click **Upgrade** to upgrade the device.

Note

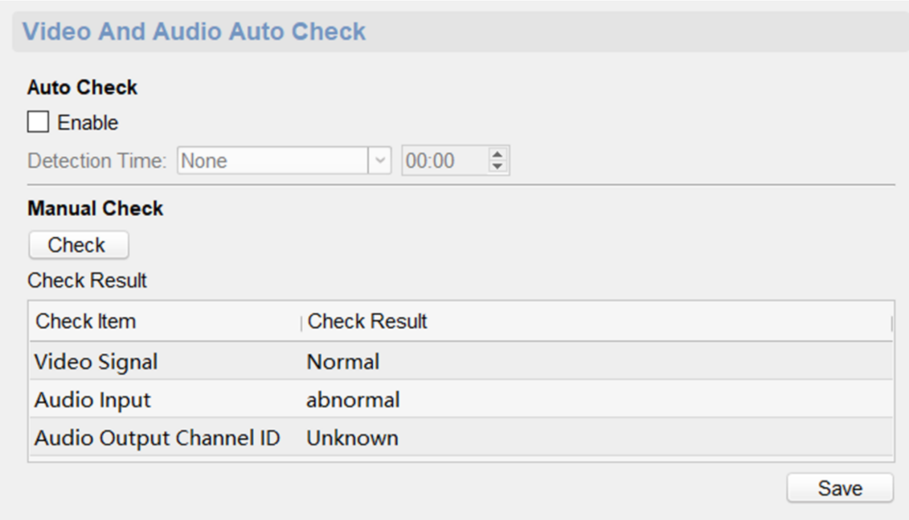
An invalid upgrade occurs when using a mismatched upgrade file, and then the device program is still the program before the upgrade.

Caution

Do not power off the device during the upgrade process.

3.7.8 Check Video & Audio Status

Automatically or Manually check the video and audio status.
On the **Remote Configuration** page, go to **System** → **Video and Audio Auto Check**.



Video And Audio Auto Check

Auto Check

□ Enable

Detection Time: None 00:00

Manual Check

Check

Check Result

Check Item	Check Result
Video Signal	Normal
Audio Input	abnormal
Audio Output Channel ID	Unknown

Save

Figure 3-44 Video and Audio Check Page

Auto check

Check the video and audio status automatically.
Check **Enable**, set the detection time and click **Save**.

Note

The detection time can be selected as **None**, **Everyday** or one day of the week.

None

Auto check function is not enabled.

Everyday

Check every day according to the set time.

One day of the week

The device performs a check at the set time on this day of the week.

Manual check

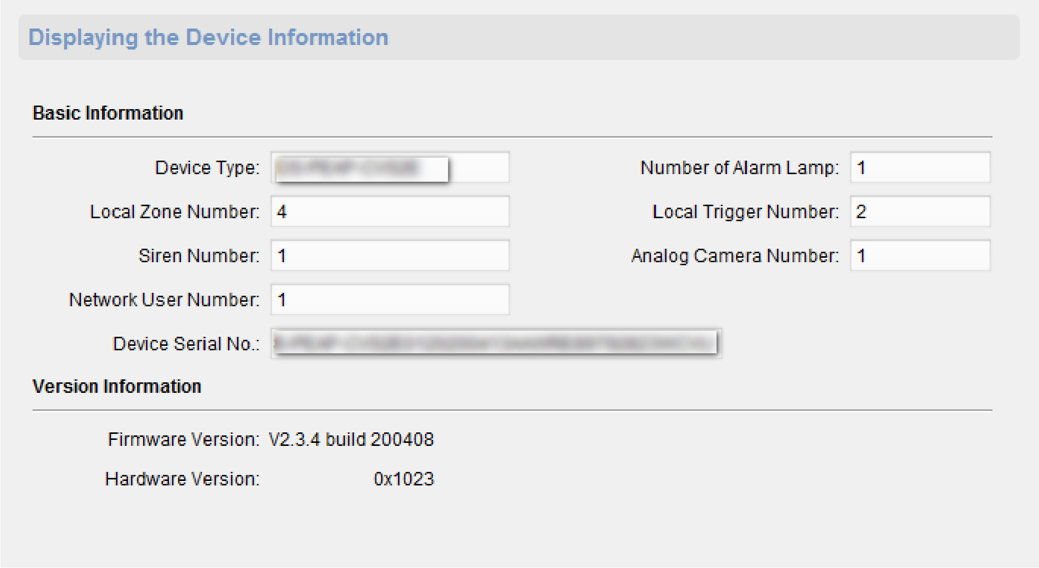
Click **Check** to start the check and the check results are displayed in the list.

Table 3-1 Description of Check Results

Check results	Description
Normal	Video/audio input/audio output signal is normal.
Abnormal	Video/audio input/audio output signal is loss.
Unknown	Audio input is abnormal and cannot detect audio output status.

3.7.9 View Device Information

On the **Remote Configuration** page, go to **Device Information**→ **Device Information**.



Displaying the Device Information

Basic Information

Device Type: [redacted]

Number of Alarm Lamp: 1

Local Zone Number: 4

Local Trigger Number: 2

Siren Number: 1

Analog Camera Number: 1

Network User Number: 1

Device Serial No.: [redacted]

Version Information

Firmware Version: V2.3.4 build 200408

Hardware Version: 0x1023

Figure 3-45 View Device Information

3.8 Set Camera

Configure the camera parameters, including the camera, WDR (Wide Dynamic Range) function, and video standard.

3.8.1 Add Camera

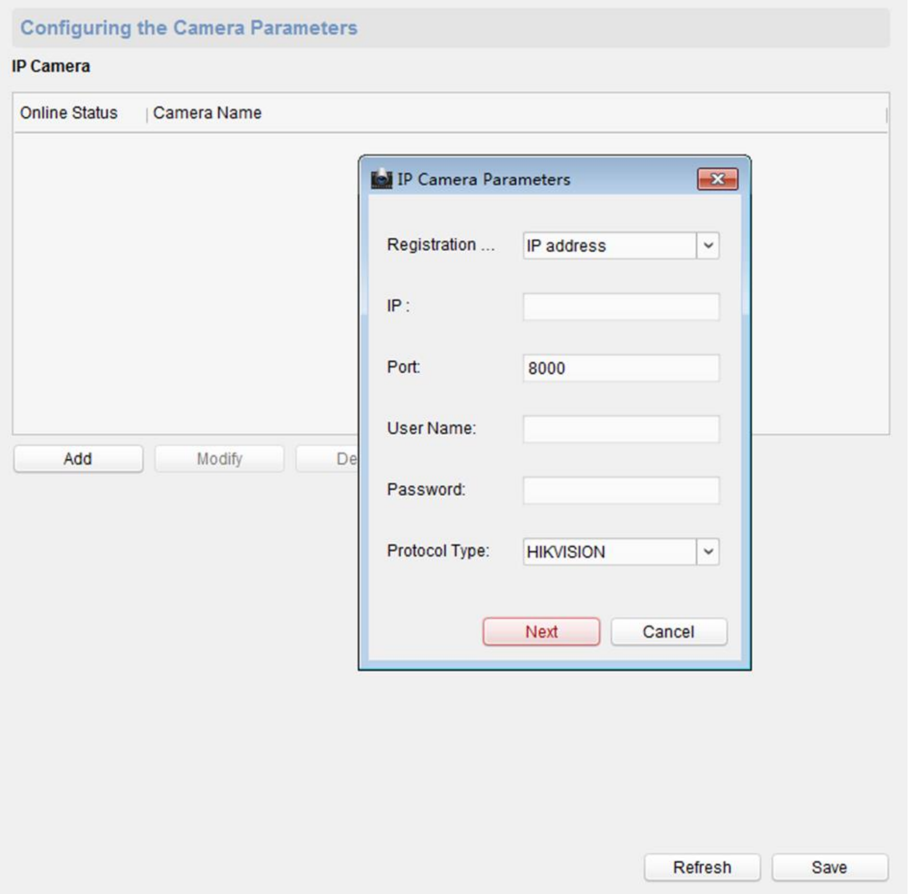
Add, modify and delete an external network camera, and enable the camera.

Steps

Note

Only one network camera can be added to the device.

1. On the **Remote Configuration** page, go to **System** → **Camera**.
2. Add a camera.
   1) Click **Add**, and enter the IP address. port, user name, and password of the camera.



Configuring the Camera Parameters

IP Camera

Online Status	Camera Name

IP Camera Parameters

Registration ... IP address

IP :

Port: 8000

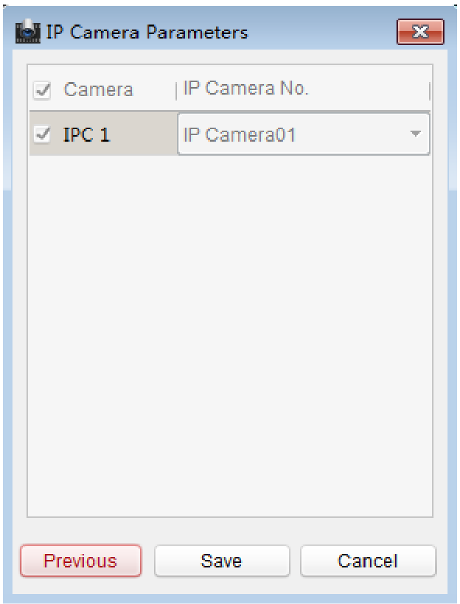
User Name:

Password:

Protocol Type: HIKVISION

Figure 3-46 Add a camera

   2) Click **Next**, select the camera number.



IP Camera Parameters

☑ Camera	IP Camera No.
☑ IPC 1	IP Camera01

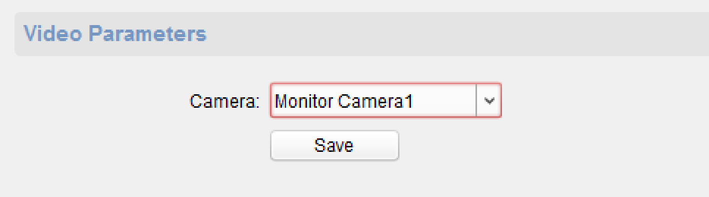
Figure 3-47 Select the Camera Number

3) Click **Save**

3. Optional: You can select the camera in the list, and click **modify** to modify the camera parameters, or click **Delete** to delete the added camera.
4. Click **Save**.
5. Optional: Click **Refresh** to refresh the camera status.

3.8.2 Set Video Parameters

On the **Remote Configuration** page, go to **CCD** → **Video Parameters**.



Video Parameters

Camera: Monitor Camera1

Figure 3-48 Video Configuration Page

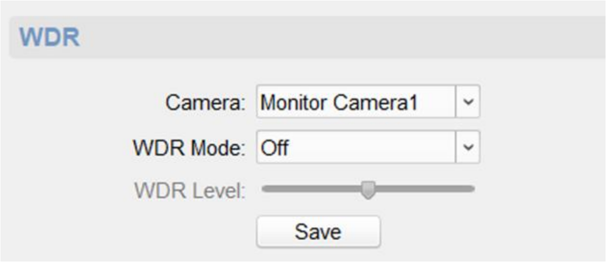
Select the camera from the drop-down box. Click **Save**.

3.8.3 Set WDR

When WDR is enabled, the device automatically balances the brightest and darkest parts of the camera picture, improving the dynamic range of the overall picture to see more details of the camera picture.

Steps

1. On the **Remote Configuration** page, go to **CCD** → **WDR**.



Camera: Monitor Camera1

WDR Mode: Off

WDR Level:

Figure 3-49 WDR function Configuration

2. Select a camera, set **WDR Mode** as **On**.
3. Set **WDR Level**.

Note

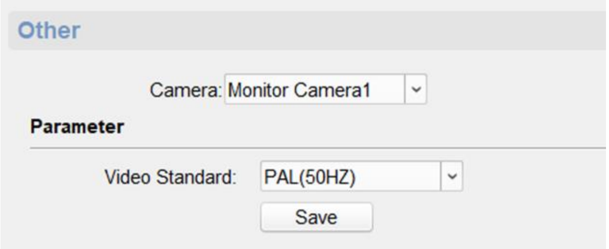
The WDR level can change the wide dynamic strength.

4. Click **Save** to enable WDR.

3.8.4 Set Other Parameters

Steps

1. On the **Remote Configuration** page, go to **CCD** → **Other**.



Camera: Monitor Camera1

Video Standard: PAL(50HZ)

Figure 3-50 Video Standard Configuration Page

2. Select a camera, and set the video standard.

Note

When selecting **Video Standard** as **PAL (50HZ)**, the highest frame rate is 25 fps, and when selecting **Video Standard** as **NTSC (60HZ)**, the highest frame rate is 30 fps.

3. Click **Save** to save settings.

Result

The changed video standard parameters take effect after restarting the device.

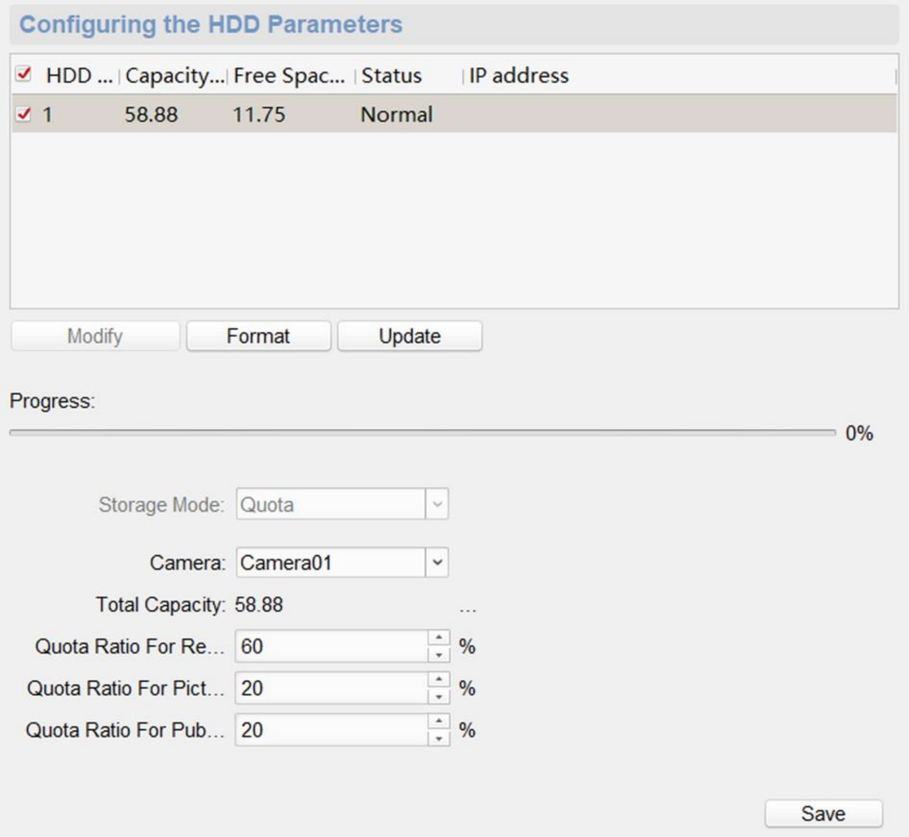
3.9 Storage Settings

3.9.1 Initialize HHD

In order to store pictures and video files, you must format the MicroSD card first.

Steps

1. In the client software, go to **Control Panel** → **Device Management**, select the device in the device list, and click **Remote Configuration**.
2. Click **Storage** → **General**.



Configuring the HDD Parameters

☑ HDD ...	Capacity...	Free Spac...	Status	IP address
☑ 1	58.88	11.75	Normal	

Progress: 0%

Storage Mode: Quota

Camera: Camera01

Total Capacity: 58.88

Quota Ratio For Re... 60 %

Quota Ratio For Pict... 20 %

Quota Ratio For Pub... 20 %

Figure 3-51 HDD Parameters Configuration Page

3. Set the storage quota, and click **Save**.
4. Select and check the MicroSD card, click **Format**.

Note

The progress bar shows the formatted process. When the MicroSD card is formatted, the status of the MicroSD card will display ***Active***.

3.9.2 Search for File

Search and download the record file and captured picture.

Steps

1. On the **Remote Configuration** page, go to **Storage** → **File**.
2. Select the searched file type as **Record File** or **Captured Picture**.
3. Select the camera, recording type, start time and end time, and click **Search**.
   The search results are displayed in the list.
4. Click **Download** to download the result to PC.

3.10 Check Status

3.10.1 Check Zone Status

On the **Remote Configuration** page, go to **Status** → **Zone**, you can view the status of zone alarm.

3.10.2 Check Relay Status

On the **Remote Configuration** page, go to **Status** → **Relay**, you can view the relay status.

Chapter 4 Communication Matrix and Device Command

Scan the OR code for communication matrix

Scan the QR code for device command