UNV-Link Pro Tools

User Manual

V1.09

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Introduction

UNV-Link Pro Tools (referred to as the app for short) is a professional mobile AIoT app intended for contractors. The app is suitable for project commissioning and device maintenance and provides a range of functions including project management, test and commissioning, device configuration, O&M, video viewing, and PTZ control on a mobile phone. The app allows for a convenient and efficient device operation and project management experience for contractors.

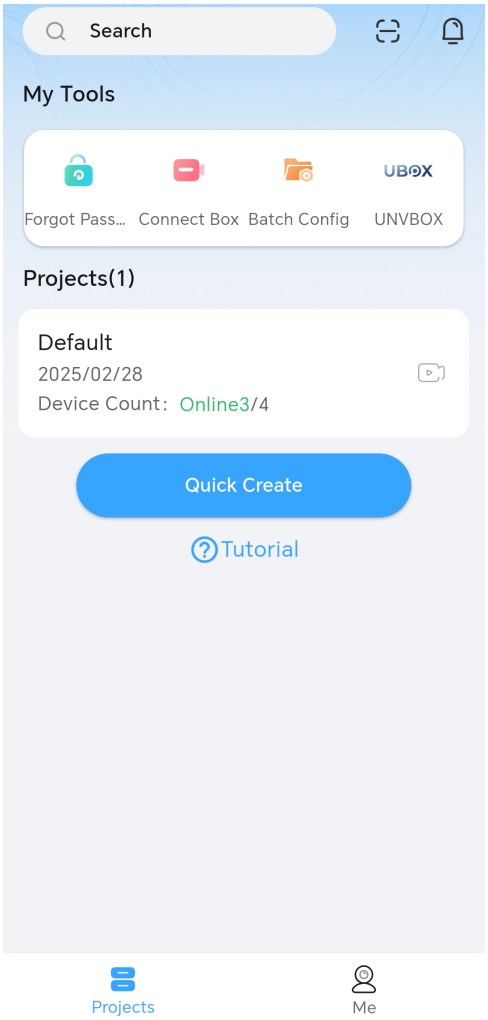
1 Function Overview

The app mainly includes the following functions:

- Project management: Manages devices as a project, delivers devices in batches.
- Maintenance tools: Reset password, Connect Box, network speed test, Wi-Fi configuration, etc.
- Device configuration: Configuration of network, audio & video, image, detection, arming/disarming, storage, etc.
- Video management: Live view, playback, two-way audio, PTZ control, image settings, etc.

2 Main Page

The main page of the app includes the toolbar and project list.



Toolbar

The toolbar includes Forgot Password, Connect Box, Batch Config and UNVBOX.

- Forgot Password: Used to recover device passwords securely.
- Connect Box: Connect to a Uniview device for quick installation and commissioning.
- Batch Config: Used to configure network parameters, video parameters, and cloud upgrade.
- UNVBOX: Tap to go to the UNVBOX download page. You can use UNVBOX to view Uniview products and solutions, etc.

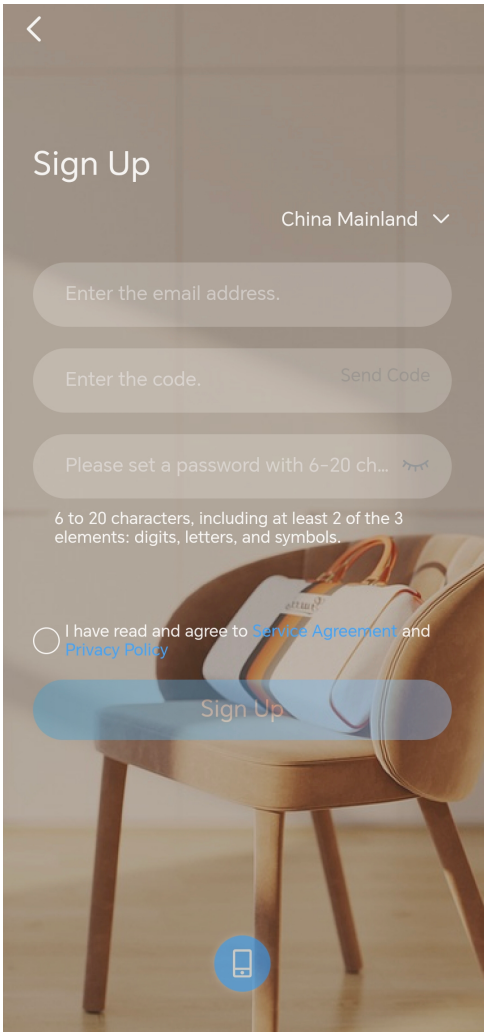
Project List

The project list shows project name, current status, and the number of online/offline devices, etc.

3 Sign-Up and Login

Sign-up

1. Tap **Sign Up** to sign up for an account. If you already have an account, log in directly.

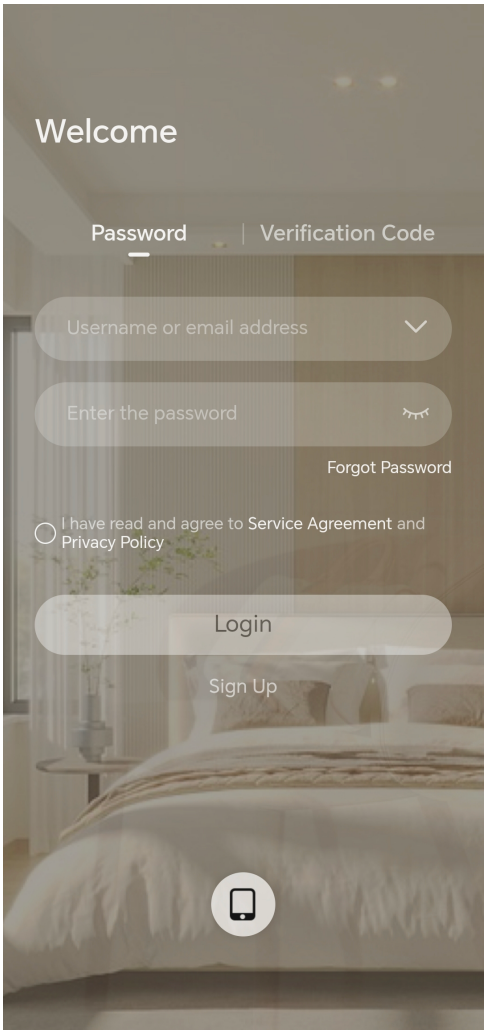


2. Read the service agreement and privacy policy, and then select the radio button.
3. Choose to sign up with an e-mail or a mobile phone number (only some regions support mobile phone number sign-up).
4. Select the account region.
5. Enter your email address or mobile phone number, and then tap **Send Code**.
6. Enter the code you received on your email or mobile phone.

7. Tap **Next**.
8. Set the login password.
9. Tap **Sign Up** to finish.

Login

1. Choose a login method: Username/Email or Phone Number.
2. Enter your username/email/mobile phone number and password on the login page.



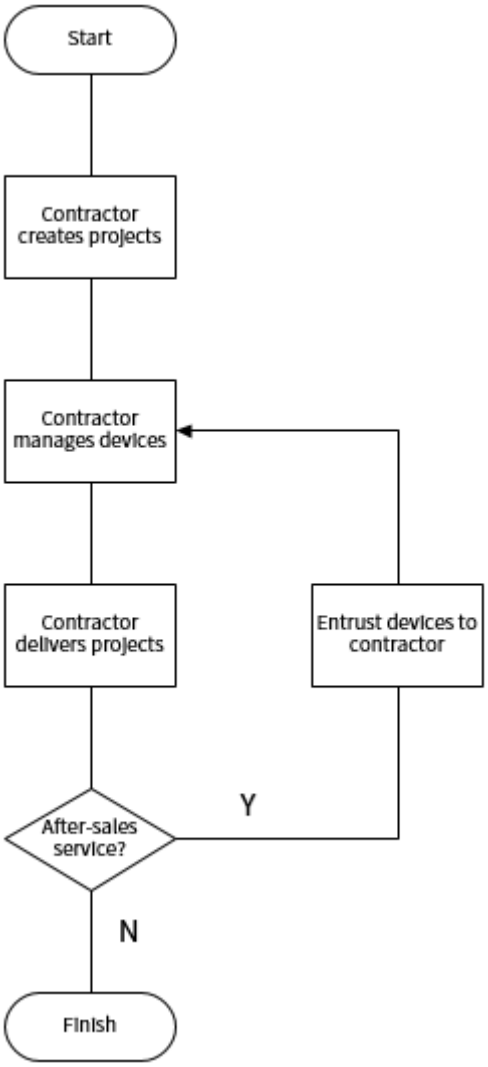
Note: If you forget your password, tap **Forgot Password**. A verification code will be sent to the email or mobile phone number you have registered, and then use the received code to reset the password.

3. Read the service agreement and privacy policy, and then select the radio button.
4. Tap **Login**.

4 Project Management

Contractors can create projects to provide device installation, addition, commissioning services for end users (UNV-Link User app users). They can manage services as a project. Once completing the services, contractors can deliver devices to end users through project delivery, and then all permissions of contractors will be revoked.

The flowchart of services provided by contractors to end users is as shown below.

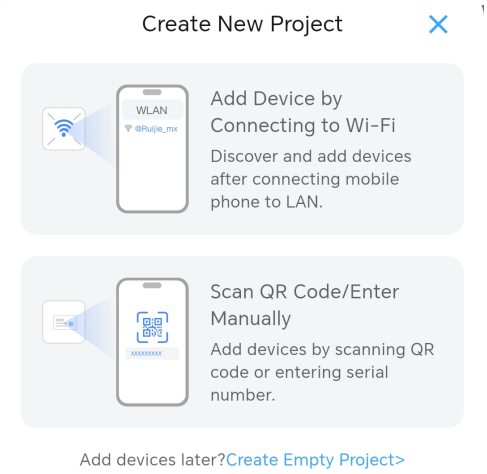


Flowchart	Description
Contractor creates projects	The contractor creates different projects for different end users. See Create Project.
Contractor manage devices	The contractor installs and configure new devices or entrusted devices. See Device Configuration.
Contractor delivers projects	After completing the services, the contractor delivers the devices to end users in batches as a project. All permissions of the contractor will be revoked after the project delivery. See Device Delivery.
After-sales service	End users can entrust devices to the contractor for maintenance and troubleshooting when necessary. Refer to the *UNV-Link User User Manual* for more information.

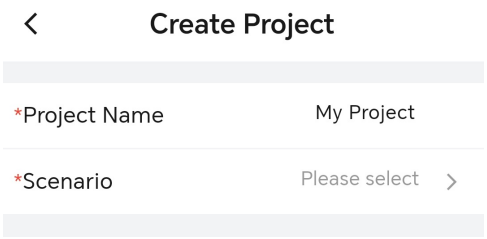
4.1 Create Project

Contractors can create projects to add, commission, and maintain devices based on projects.

1. On the **Projects** tab, tap **+** or **Quick Create** to create a project.
2. Choose a way to create the project:



- Add devices to a new project:
  - Via Wi-Fi connection: Please refer to Auto Search in LAN.
  - By scanning QR code or entering SN: Please refer to Scan QR Code.
- Skip adding devices and create an empty project: Tap **Create Empty Project>** at the bottom of the screen, enter a custom project name, select an application scenario, and then tap **Create**.



The created projects are displayed on the main page. You can view the delivery status, number of devices, and online/offline status of each project. The default projects include all the undelivered projects and devices that are under maintenance.

4.2 Add Device

Add IPCs, NVRs, and switches to different projects for better management and maintenance.

4.2.1 For Wireless Connection

To add devices via a wireless connection, you can use methods such as automatically searching on the LAN and scanning the QR code.

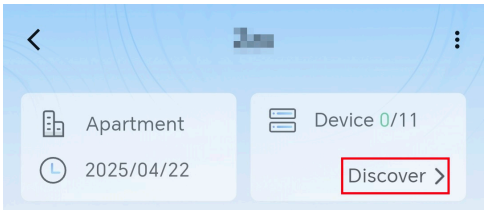
Choose a way to add the device:

Note: Switches can only be added by scanning QR code.

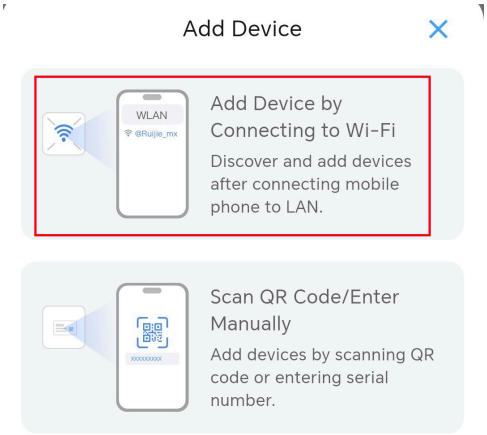
- Auto Search in LAN: Search for and add devices in the current local area network (LAN) of the mobile phone.
- Scan QR Code: Add a device by scanning the QR code on the device body or by manually entering the device's register code.
- Import from other Projects: Import a device from another project. The device will be deleted from the previous project after the import (unless the previous project is the default project).

4.2.1.1 Auto Search in LAN

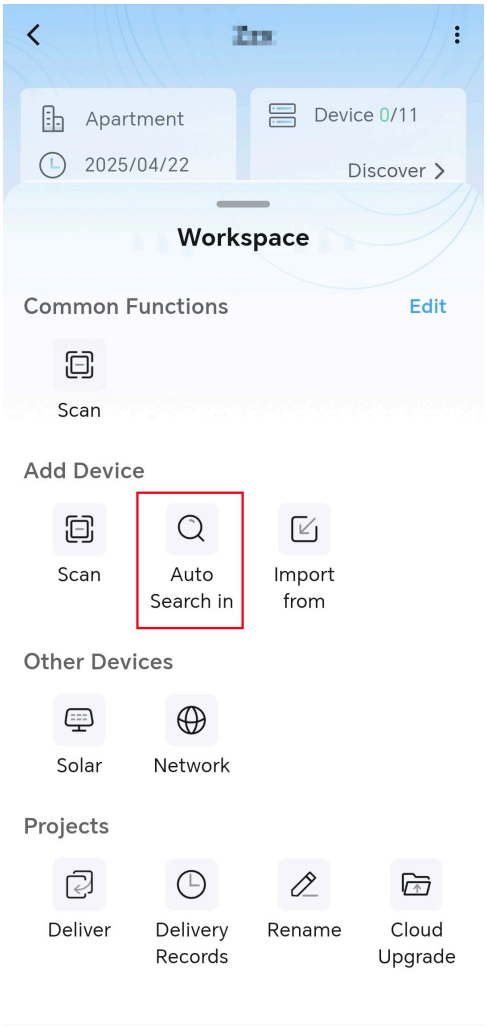
1. On the **Projects** screen, tap the name of the target project. The project details are displayed.
2. Choose a way to search for devices:
   - Tap **Discover>** in the upper-right corner.



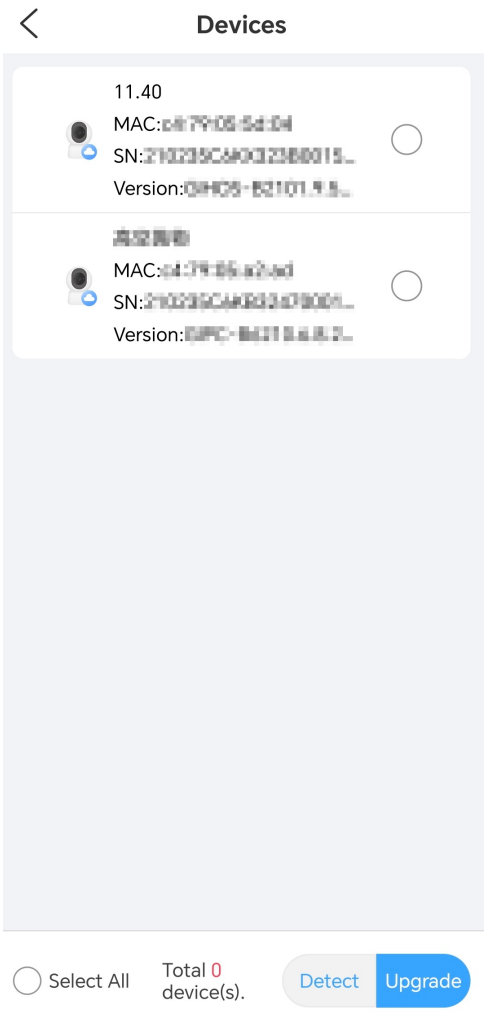
- If no devices are added yet, tap **Add Device** in the center of the screen, and then select **Add Device by Connecting to Wi-Fi**.



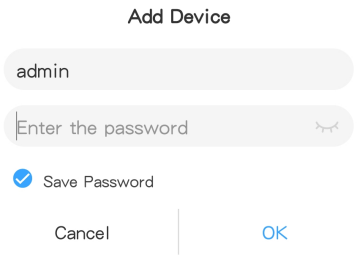
- Swipe up on the workspace, and then tap **Auto Search** in under **Add Device**.



3. The app will automatically detect devices connected to the current Wi-Fi network and display them in a list. Select the device(s) to be added and then tap **Add**.

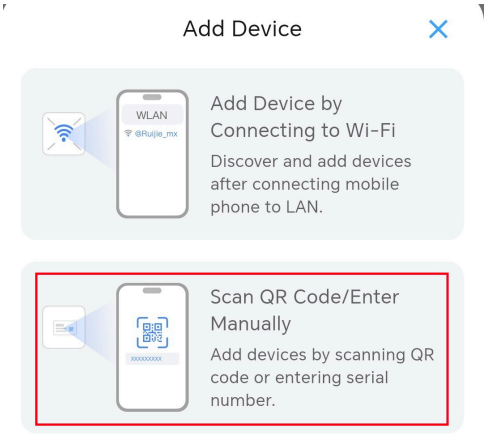


4. Enter the username and password in the pop-up window.The device status will be displayed as “Added” in the device list.

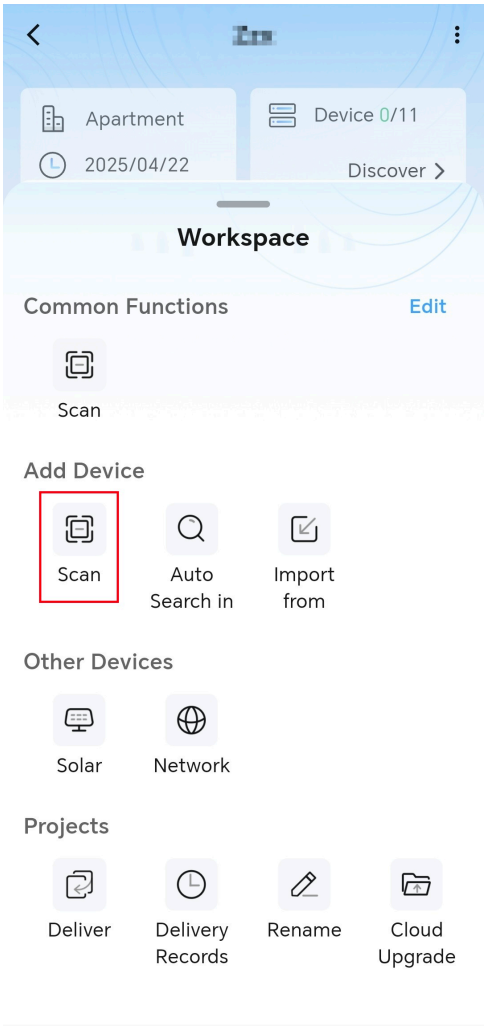


4.2.1.2 Scan QR Code

1. On the **Projects** screen, tap the name of the target project. The project details are displayed.
2. Choose a way to scan the QR code:
   - If no devices are added yet, tap **Add Device** on the center of the screen, and then select **Scan QR Code/ Enter Manually**.

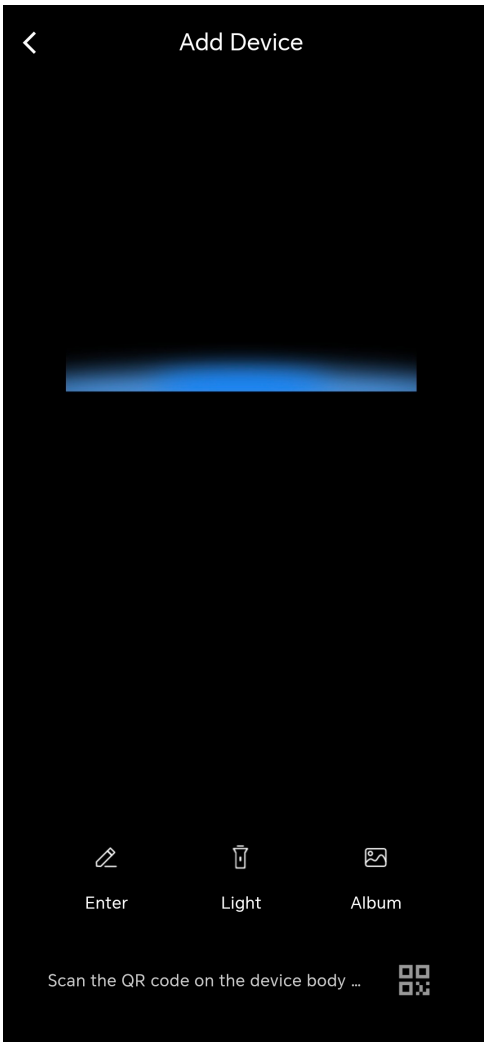


- Swipe up on the workspace, and then tap **Scan** under **Add Device**.



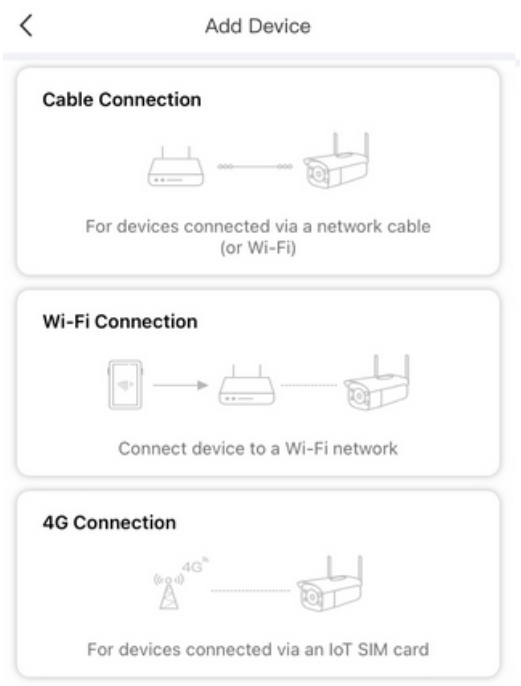
3. Scan the QR code on the device body or a local image. To scan a local image, tap  to choose an image from your album.

Note: To enter the device register code manually, tap  in the lower-left corner, enter the code, and then confirm.

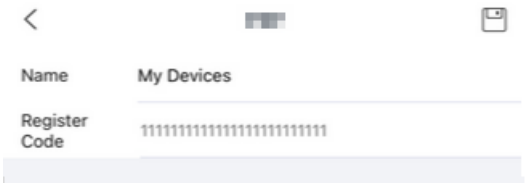


4. Choose a networking mode for the device.

Note: Some Wi-Fi device models might skip networking mode selection and directly enter network configuration.



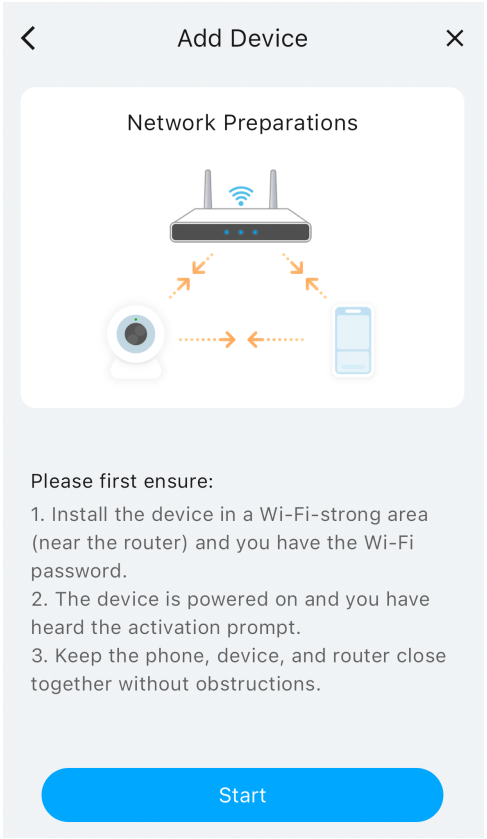
- Cable connection: Check the device name and register code, and then tap in the upper-right corner to add the device.



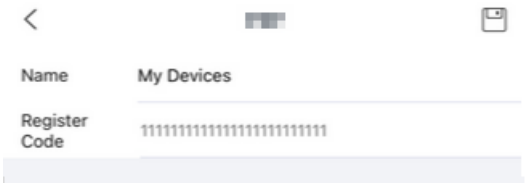
- Wi-Fi connection: Please first ensure the device is powered on and is positioned in a strong Wi-Fi coverage area. On your phone, enable Bluetooth, then follow the on-screen instructions to add the device.

Note:

- Bluetooth on your mobile phone is used to search and connect to devices, and can also connect your device to network.
- The interface may vary with device model. Please refer to the actual interface.



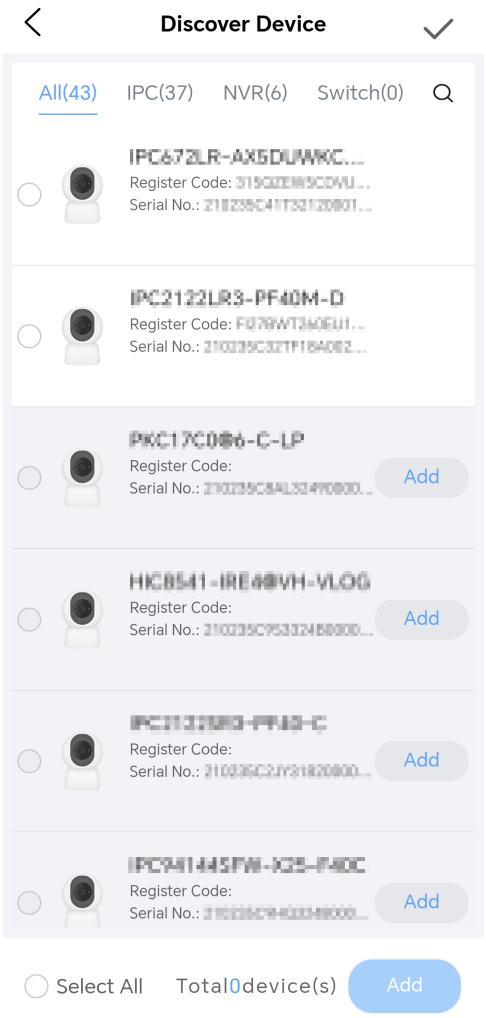
- 4G connection: Check the device name and register code, and then tap in the upper-right to add the device.



Once a switch is added, you can add devices (IPC, NVR, switch) not registered to cloud by discovery.

You can also add devices in Switch Details.

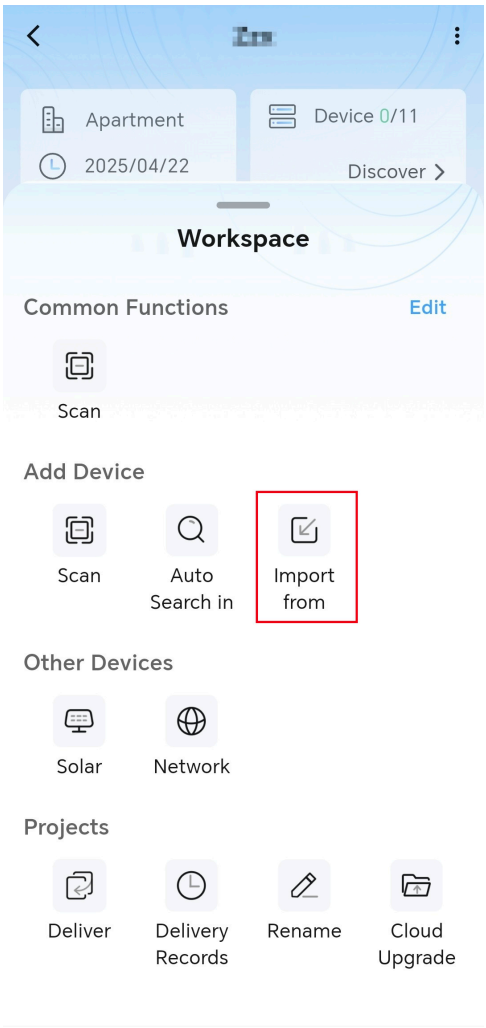
1. Once a switch is added, tap **Yes** in the pop-up window. The discovered devices display.



2. Add device.
   - For devices with serial number displayed: Select device(s) and tap **Add**.
   - For devices without serial number displayed: You need to enter the device's username and password manually first.
3. Tap ✓.

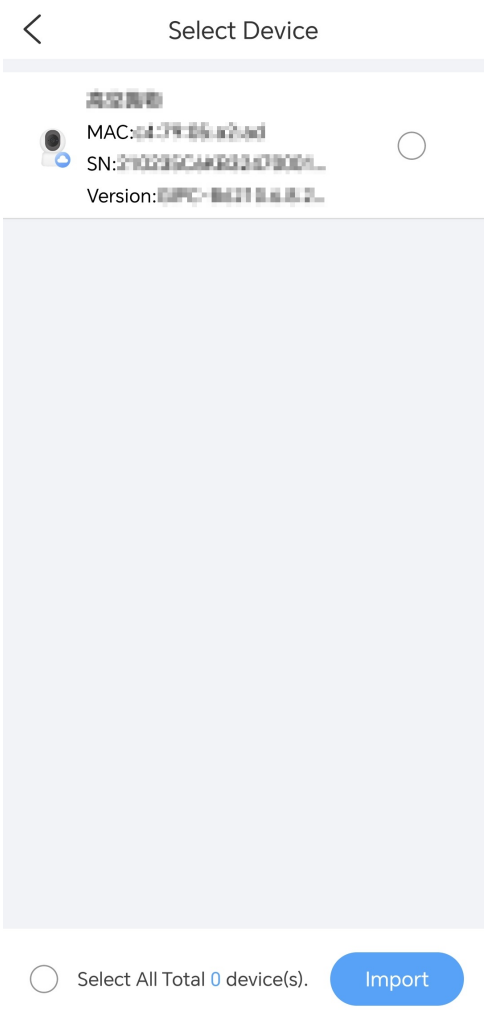
4.2.1.3 Import from other Projects

1. On the **Projects** screen, tap the name of the target project. The project details are displayed.
2. Swipe up on the workspace, and then tap **Import from** under **Add Device**.



3. Tap the project containing the device you want to import. The device list displays.

4. Select the device(s) to import.



5. Tap **Import** to complete adding the device. The device will be deleted from its previous project (except when the previous project is the default project).

4.2.2 For Wired Connection

Adding devices via a wired connection requires the device to be connected to the phone via a network cable.

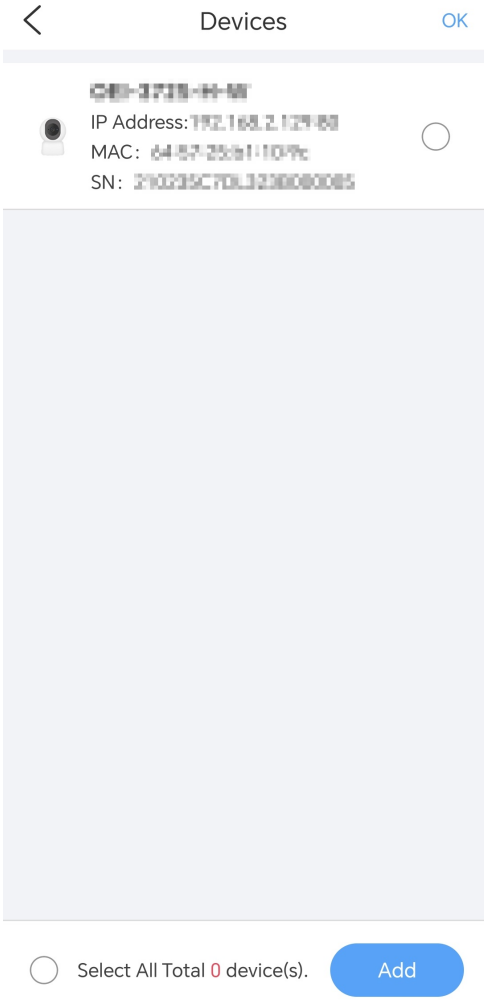
Note:

- This function is only available on iOS. Android is not supported.
- This function is only available to devices that support wired connection such as IPCs, NVRs, and switches.

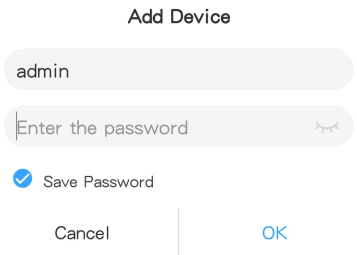
1. Connect the mobile phone to the network interface adapter, and then use a network cable to connect the device with the adapter.

2. Go to **Settings** > **Ethernet**, set the mobile phone's IP address manually to the same network segment as the device. By the same network segment, it means only the last portion of the IP address is different.
3. On the **Device** screen, tap the name of the target project. The project details are displayed.
4. Tap + behind the search bar. The device adding screen is displayed.

5. Choose **Auto Search in the LAN**. The app will automatically search for devices connected to the mobile phone and display the discovered devices in the device list.



6. Select the device to add and tap **Add**. Enter the username and password in the pop-up window.



7. Tap **OK**. The device status will be displayed “Added” in the device list.

If the network cable is disconnected, the device status will be “Offline”. When reconnected, the device status will be automatically changed to “Online” without reconfiguration.

4.3 Device Delivery

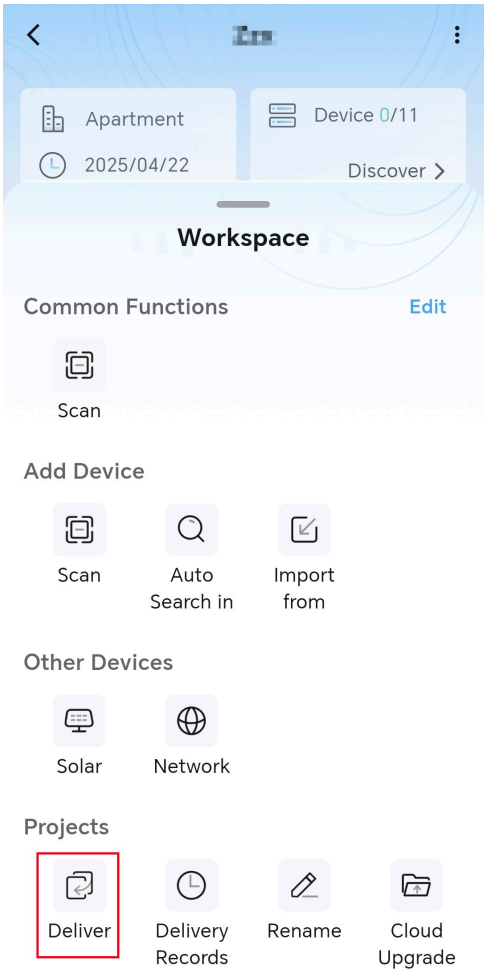
Contractors deliver one or multiple devices to end users after completing the service.

Note:

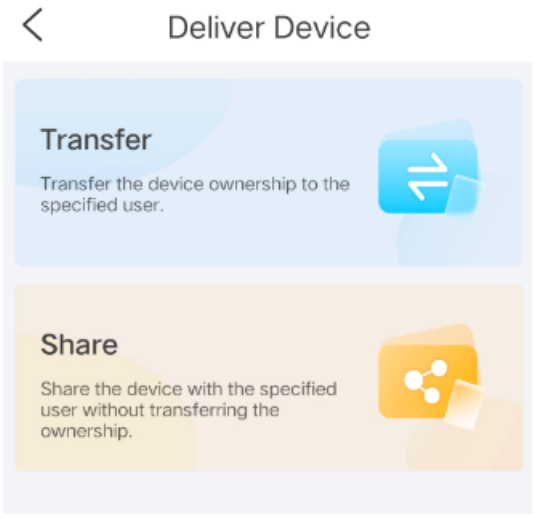
- Devices in the default project cannot be delivered directly. However, you can use the **Import from Other Projects** function to import the devices in the default project to other projects for delivery.
- The app only supports delivering projects by device (not by channel). If the delivered device is an NVR, all channels under the NVR will also be delivered.
- Make sure the recipient has completed sign-up on the UNV-Link User app.

Batch Delivery

1. On the **Projects** screen, tap on a project.
2. Swipe up on the workspace, and then tap **Deliver** under **Projects**.



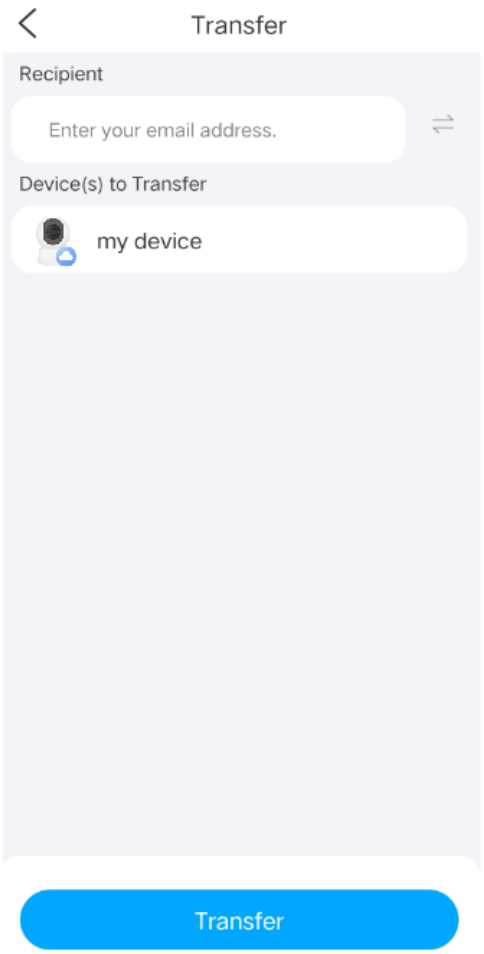
3. Choose a delivery method: Transfer or Share.



- Transfer:

  (1) Choose the devices you want to deliver in the project. Tap **Transfer**.

(2) Enter the recipient's email address or mobile phone number. You can tap ⇌ to switch the input mode.

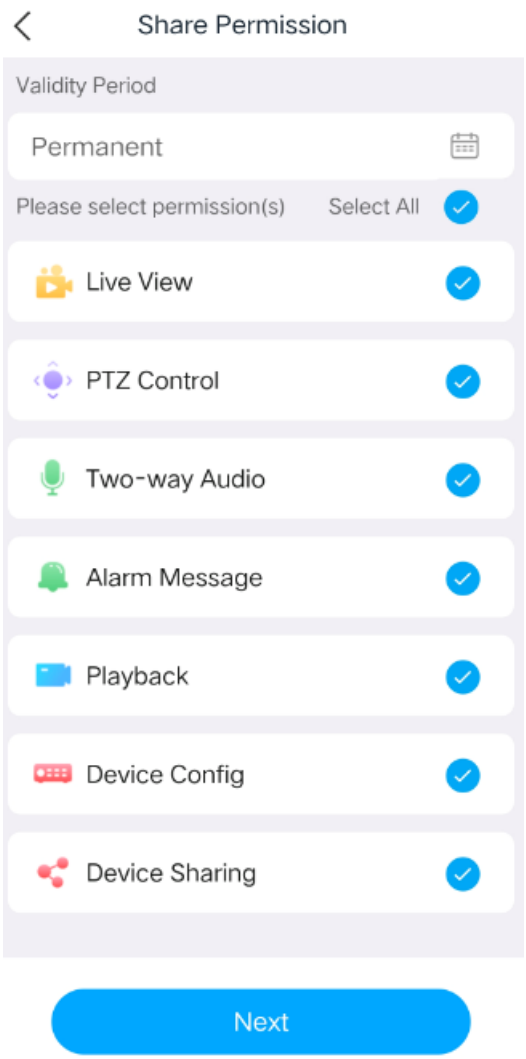


(3) Tap **Transfer**.

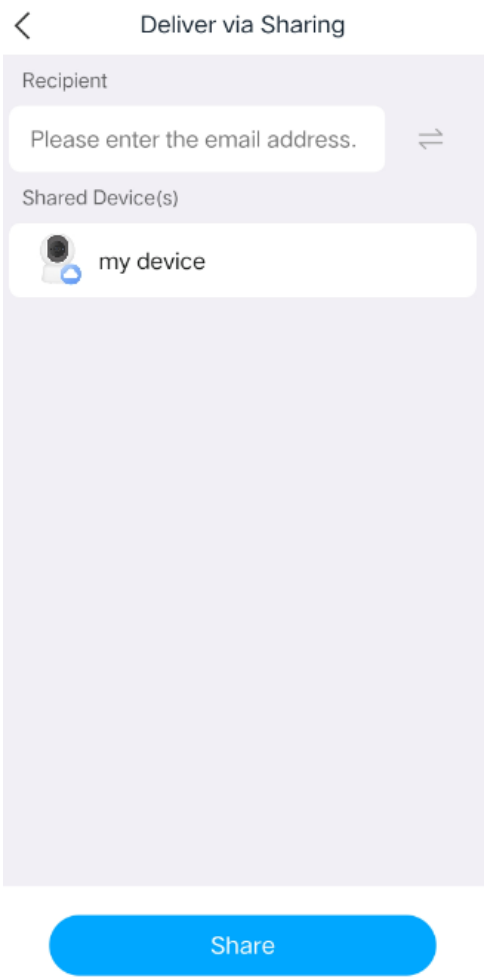
- Share:

  (1) Choose the devices you want to deliver in the project. Tap **Share**.

(2) Set the validity period and select permission(s) to be shared. Tap **Next**.



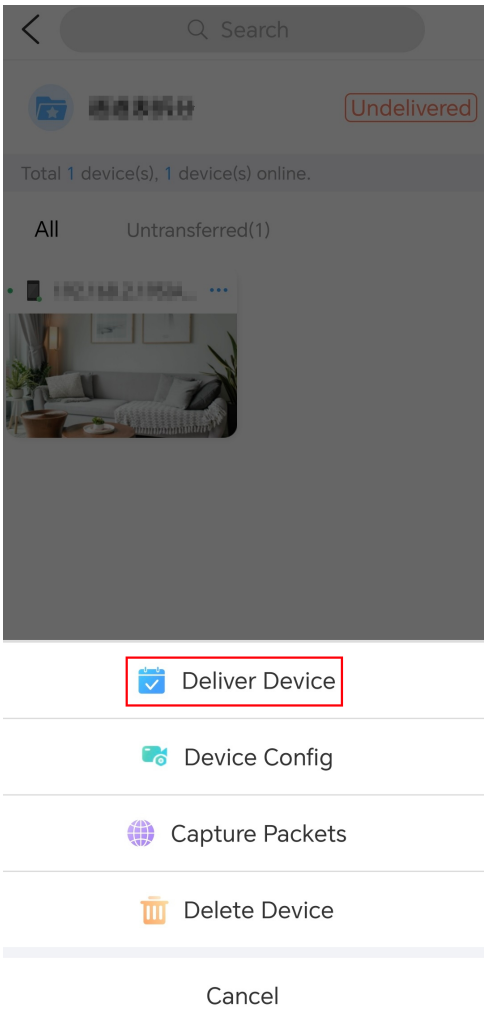
(3) Enter the recipient's email address or mobile phone number. You can tap ⇌ to switch the input mode.



(4) Tap **Share**.

Deliver One by One

1. On the **Projects** screen, tap on a project, and then tap .
2. Tap ••• for the device to be delivered, and then select **Deliver Device**.



3. Follow the instructions in steps.

4.4 Other Operations

In addition to adding, delivering, and configuring devices, you can also:

- Search for a project: On the **Projects** tab, enter keywords to search for a project.
- Search for a device: On the project details page, tap **Device** > **All Device(s)**, and then enter keywords to search for a device.
- Edit a project: On the project details page, tap ⋮ in the top right corner, and then choose **Edit Project** to change the project name. Tap **OK** when you complete.
- Delete a project: On the project details page, tap ⋮ in the top right corner, choose **Delete Project**, and then confirm the delete. Deleting a project will also delete all the devices under the project.

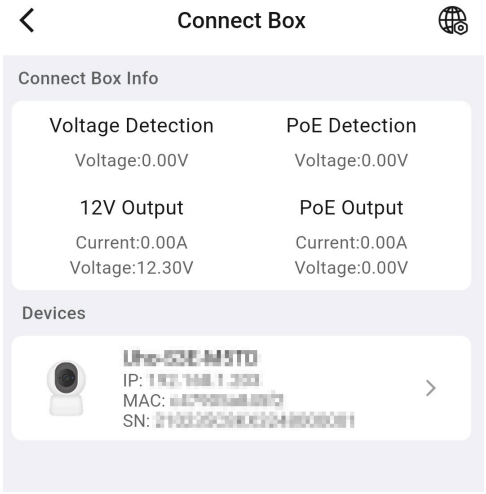
5 Connect Box

For sites without electricity or network access, connecting the Connect Box can provide temporary power and network to the camera and then allow you to view camera live video and test the camera.

Note: Make sure the Connect Box is turned on and properly connected to the camera. Refer to the *Connect Box Quick Guide* for detailed instructions.

1. Tap **Connect Box**.
2. Connect your mobile phone to the Connect Box's Wi-Fi network. The Wi-Fi name is "**GCBWIFI**+*the last 6 digits of the MAC address*".

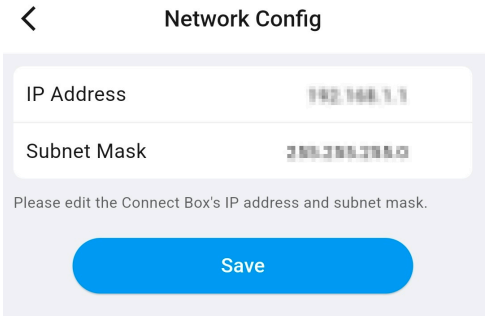
3. Once your mobile phone is connected to the Connect Box's Wi-Fi network, the app displays Connect Box information and starts to search for devices connected to the Connect Box.



- Voltage Detection: Detects the external voltage of the camera.
- PoE Detection: Detects the output voltage of the Power Sourcing Equipment (PSE).
- 12V Output: Powers the camera using the Connect Box's 12V output port and displays the power supply status.
- PoE Output: Powers the camera using the Connect Box's PoE port and displays the power supply status.

4. Tap the device you want to add, and then enter its username and password in the pop-up box.
5. Tap **OK** to finish adding the camera. If the camera is added successfully, you can tap the device name to view live video. Adjust camera settings as needed.
   - Modify device IP
   - Send mobile phone location
   - Adjust image settings

If the phone has been connected to the Connect Box's Wi-Fi, a icon will appear in the upper-right corner. You can tap on the icon to modify the Connect Box's network information.



6 Batch Configuration

6.1 Network Configuration

When the mobile phone connects to Wi-Fi, the app can automatically search for devices and channels on the same LAN. You can configure network parameters for them.

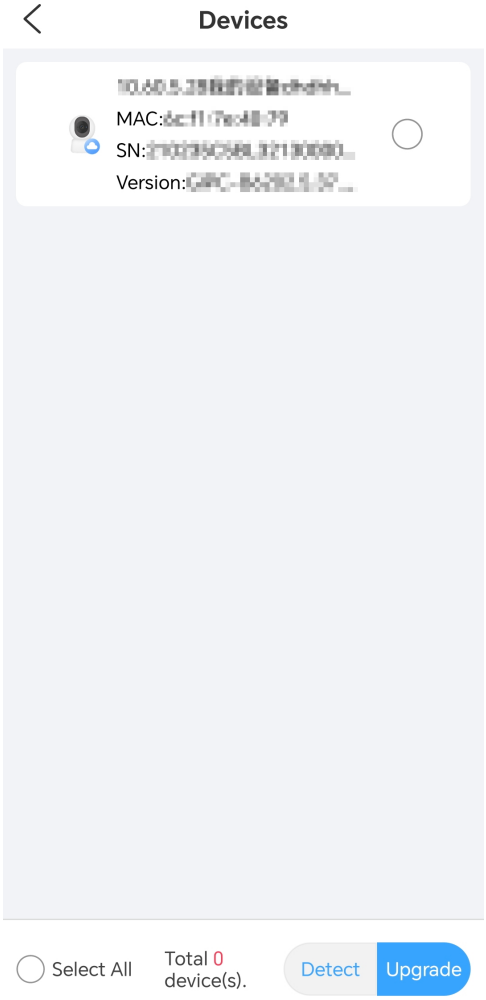
6.2 Video Configuration

When the mobile phone connects to Wi-Fi, the app can automatically search for devices and channels on the same LAN. You can configure video parameters for them.

6.3 Cloud Upgrade

Upgrade devices in batches remotely.

1. Go to **Batch Config** > **Cloud Upgrade**.
2. Tap on a project to view devices under it.



3. Select device(s) and channel(s) and tap **Detect** to detect new versions.
4. Select device(s) and channel(s) that can be upgraded and tap **Upgrade** to upgrade them remotely.

6.4 LAN Device Upgrade

Remotely upgrade devices on the same LAN as your phone in batches.

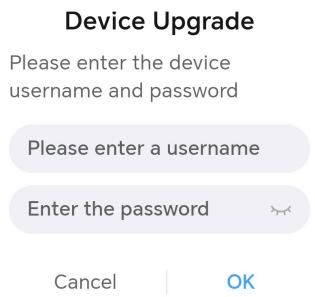
Note: Before you start, please make sure your phone is connected to the Wi-Fi network.

Go to **Batch Config** > **Upgrade LAN Devices**. The system will automatically search for and display devices that are on the same LAN as your phone.

Detection + Upgrade

After Wi-Fi is connected, if the detection or upgrade failed due to failed Internet access, you need to enable cellular data and then detect manually.

1. Select the devices you want to upgrade, and then tap **Detect**.
2. In the pop-up window, enter the device username and password, and then tap **OK**. The system will verify the provided username and password and check for available upgrades.



3. After detection, devices that support upgrade will display **Upgradeable** on the right side. Select these devices and tap **Upgrade**. The system will begin the remote upgrade process for the selected devices.

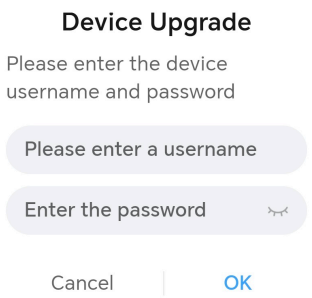
Note: During the upgrade, do not exit the upgrade page or disconnect the device from power; otherwise, the upgrade will fail.

Direct Upgrade

If Wi-Fi is connected and the function is normal, detection will be performed automatically.

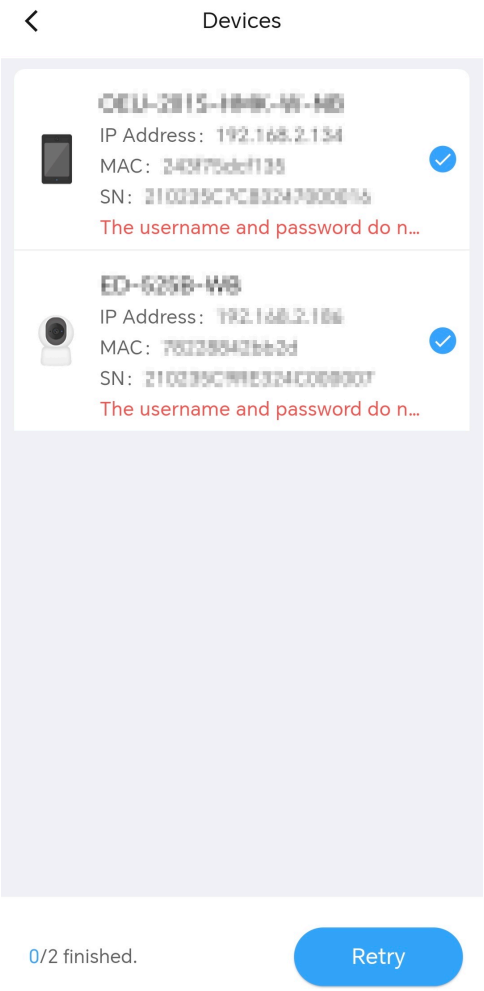
1. Select the devices you want to upgrade, and then tap **Upgrade**.

2. In the pop-up window, enter the device username and password, and then tap **OK**. The system will verify the provided username and password and check for available upgrades.



If an upgrade is available and the provided username and password are correct, the device will upgrade automatically. Otherwise, a failure cause will be displayed (e.g., "The username and password do not match."). To retry the upgrade, select the device in the list, tap **Retry**, and then enter the correct device username and password.

Note: During the upgrade, do not exit the upgrade page or disconnect the device from power; otherwise, the upgrade will fail.



7 Reset Password

Reset the password of a device.

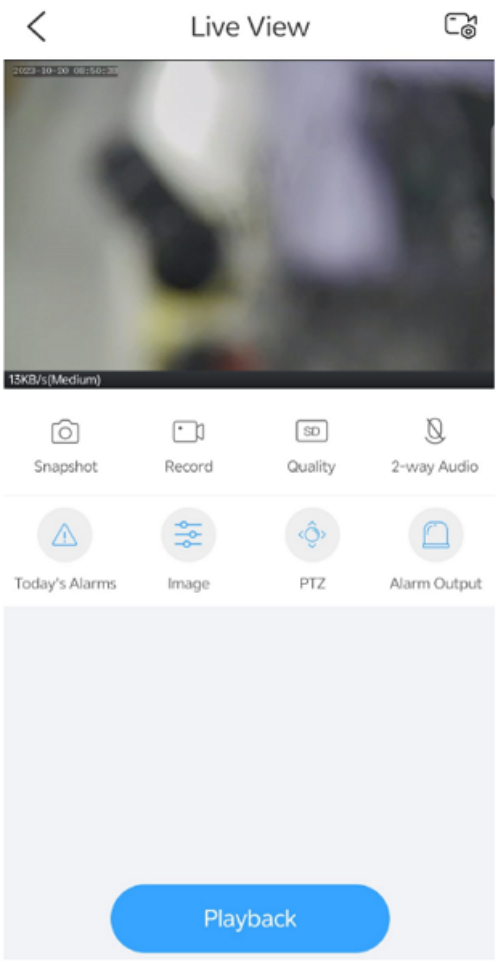
1. Open the target device's login page on your computer, and then click **Forgot Password**.

2. Tap **Reset Password** on the top of the **Device** page.
3. Scan the QR code displayed on your computer screen. A security code will be sent to the mobile phone number you have registered.
4. On the computer, enter the security code to log in to the device, and then set a new password.

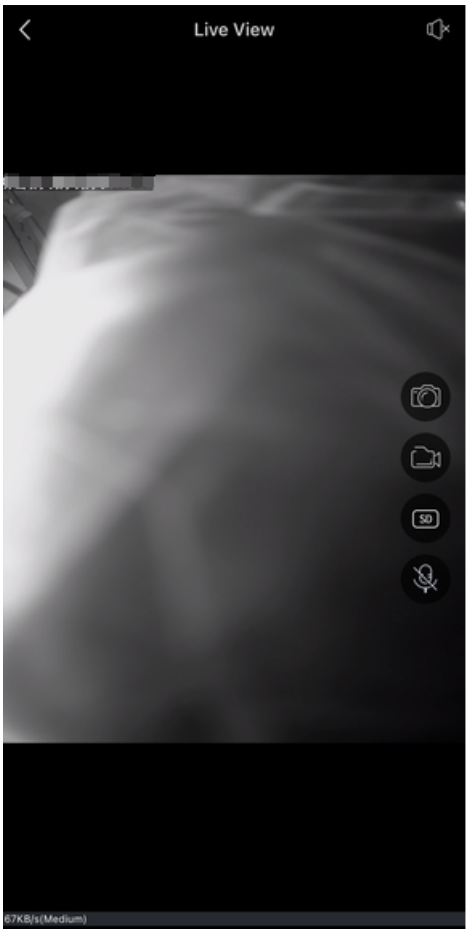
8 Video Management

8.1 Live View

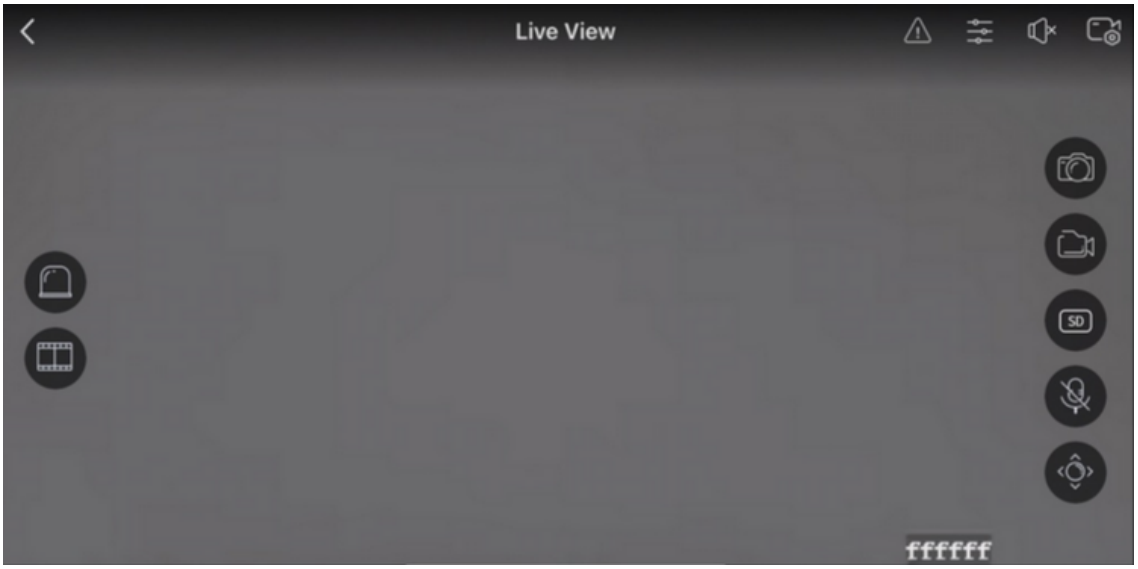
View the camera's live video and adjust image settings.



- Zoom in: Use fingers to zoom in on the image.
- Corridor mode: Tap in the top right corner to vertically magnify the image to full screen. Corridor mode is suitable for narrow scenarios and requires you enable rotation in Image Rotation.

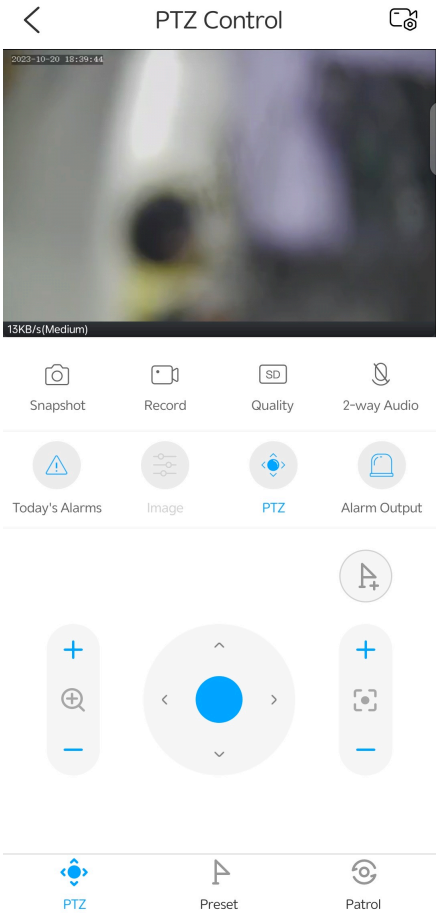


- Mute/unmute: Sound is muted by default. You can tap to turn on the speaker, and tap again to mute the sound.
- Full screen: Tap in the bottom right corner to play video in full screen. Tap in the top left corner to exit full screen.



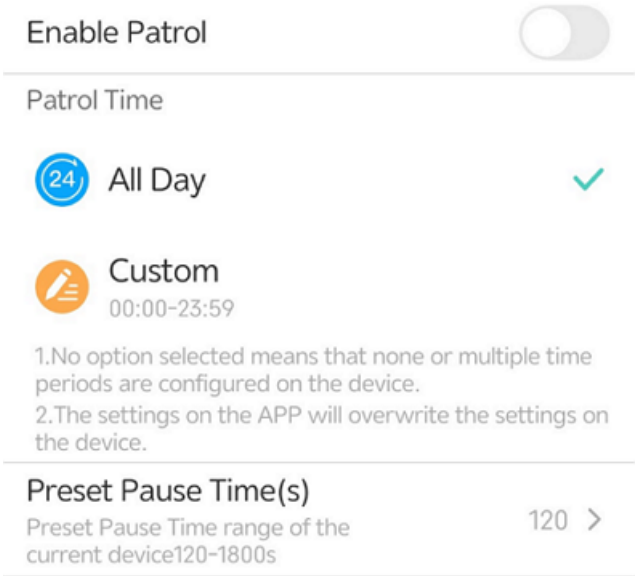
- Snapshot: Tap to capture the current image and save it to your mobile phone's album.
- Record: Tap to start video recording, and tap again to stop recording.
- Video quality: Tap Med… to switch image quality, including high, medium, and low.

- Two-way audio: Tap  to start audio intercom with the device.
- Today's Alarm: Tap **Today's Alarm** to view alarms reported by the device on the current day. You can scroll up or down as necessary if there are many alarms.
- Image settings: Tap **Image** to configure image parameters.
  - Brightness: Adjust the level of lightness and darkness of the image.
  - Saturation: Adjust the intensity and purity of colors in the image.
  - Contrast: Adjust the ratio of brightness between the brightest and darkest at the same point on the screen.
  - Image rotation: Mirror the image, including normal, vertical, horizontal, 180°, 90° clockwise, and 90° anti-clockwise.
  - 2D DNR (2D digital noise reduction): It is a noise reduction technique applied within each frame of image. The technique involves averaging the values of a pixel with its surrounding pixels to reduce noise. However, this process may lead to some loss of details in the image.
  - 3D DNR (3D digital noise reduction): It is a noise reduction technique applied between frames of image. By comparing adjacent frames, it identifies the positions of noise pixels and applies control to reduce the impact, resulting in a cleaner and more detailed image display.
  - Sharpness: Adjust image clarity and sharpness of image edges.
- PTZ (for PTZ cameras only): Tap to open the PTZ control panel, and then press and hold the arrows to rotate the PTZ camera.



- Zoom: Adjust the zoom ratio of the lens by tapping **+** or **-** in  .
- Focus: Adjust the focus of the lens by tapping **+** or tap **-** in  .
- Add preset: Tap  to add a preset.
- Manage presets:
  - Go to a preset: Tap **Preset**. On the pop-up preset list, choose the desired preset, and then tap **Go to Preset**. The camera will rotate to the specified preset.
  - Manage preset: Tap **Preset**, tap  on the right, tap the presets to delete, and then tap  to delete the presets.

- Patrol: The camera can go to the configured preset positions one by one in order within the set patrol time. The length of time that the camera stays at a preset is configurable.

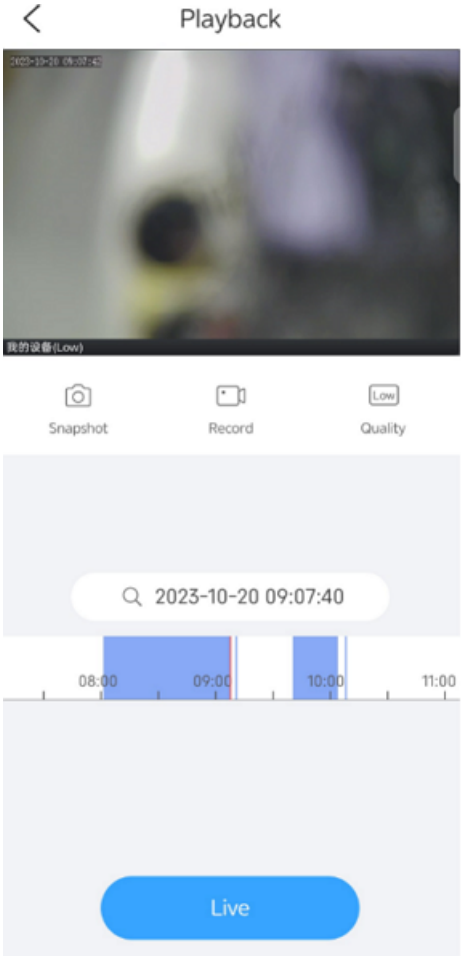


1. Tap to enable or disable patrol. When enabled, the camera will patrol in accordance with the preset order, patrol time, and stay time.
2. Set a patrol time, which can be all-day or a specific time period. Only within the patrol time will the camera conduct patrol.
3. Preset Pause Time(s): Set the length of time that the camear will stay at a preset before going to the next.

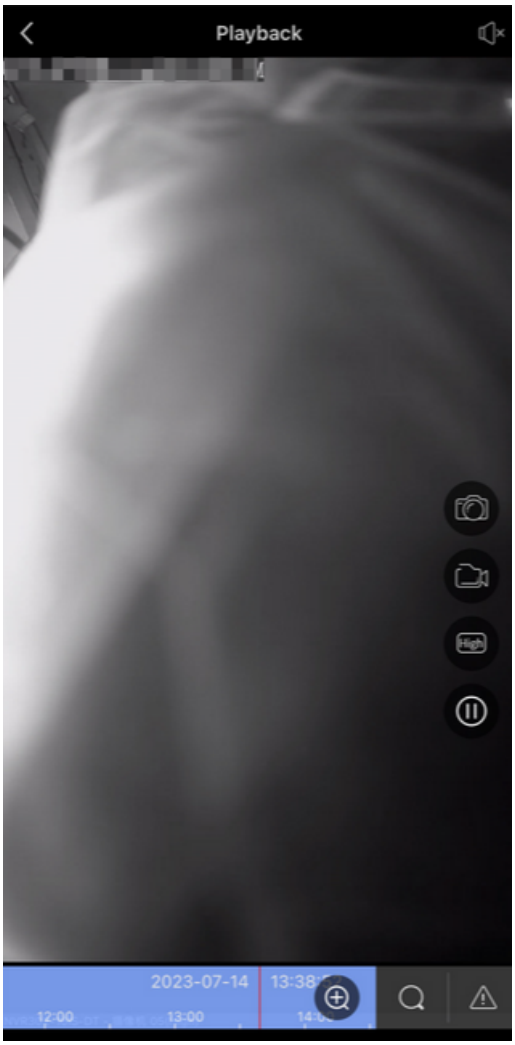
- Alarm output: Tap **Alarm Output**. If the button behind a channel is displayed as  , it means that alarm output has been enabled. After alarm output is enabled, if the camera reports an alarm, the connected external alarm output device will also report an alarm.
- Playback: Tap to play recordings. See Playback.
- Device configuration: Tap  in the top right corner to configure devices. See Device Configuration.

8.2 Playback

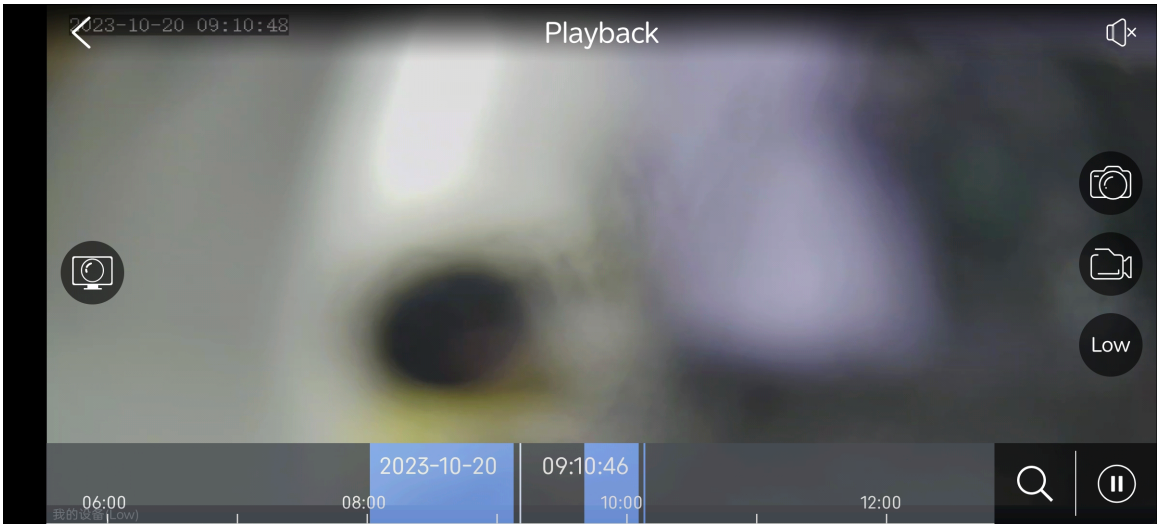
Search and play recordings of a device.



- Pause/resume: Tap the pause button in the floating toolbar to pause the video, tap the button again to resume.
- Zoom in: Use fingers to zoom in on the image.
- Corridor mode: Tap  in the top right corner to vertically magnify the image to fill the entire screen. Corridor mode is suitable for narrow scenarios.



- Mute/unmute: Sound is muted by default. You can tap  to turn on the speaker, and tap again to mute the sound.
- Full screen: Tap  in the bottom right corner to play video in full screen. Tap  in the top left corner to exit full screen.



- Snapshot: Tap  to capture the current image and save it to your mobile phone's album.
- Record: Tap  to start video recording, and tap again to stop recording.

- Video quality: Tap Low to switch image quality, including high and low.
- Back to live view: Tap **Live** to view live video.

9 Device Configuration

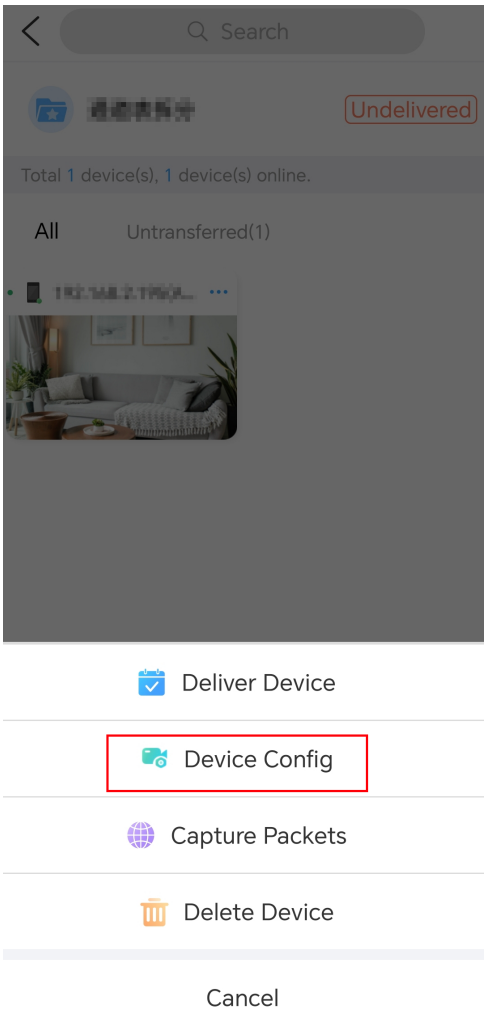
Use the app to configure device parameters.

Note: The parameters displayed may vary depending on the connected device. This section lists all parameters for your reference.

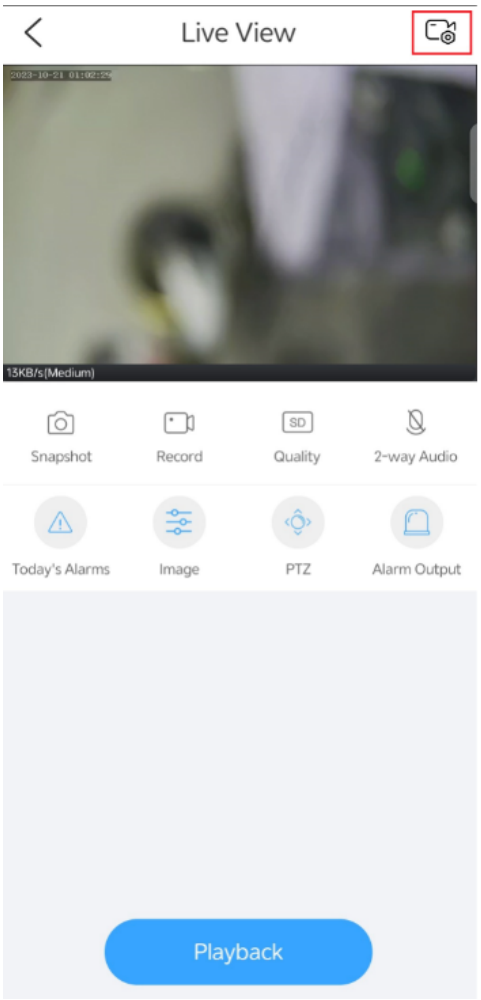
Choose a method to enter the device configuration screen.

- Tap on a project, tap **Device** > **Device Config**. Tap on a device to enter the configuration screen.
- Tap on a project, tap , tap for a device, and then select **Device Config** to enter the configuration screen.

  Note: For multi-channel devices, you can tap , tap on the device, then its channel information will be displayed. Tap for a channel, and then select **Channel Config** to enter the configuration screen.



- Tap on a project, tap , tap on a device, and then tap in the upper-right corner to enter the device configuration screen.



9.1 Basic Information

On the **Basic Info** page, you can view the device's serial number and model, set the device name and time, change the device password, get the mobile phone's location information, and restart the device.

9.1.1 Device Info

Use the app to view device serial number, model, and documents, modify device name and password, upgrade device version, get mobile phone's location information, and restart the device.

On the **Settings** screen, tap the device name.

- Change device name: Tap **Device Name**. Enter the new name, and then tap in the upper-right corner to save.
- Change device language: This feature is only supported by the doorbell. You can change the device's language settings here.
- Upgrade device version: If an update is available, a red dot will be displayed at the upper-right corner of the current version. You can tap **Current Version** to access the **Version Information** screen and upgrade.
- View product documents: Tap **Product Documents** to view the associated documents for the device.
- Change device password: Tap **Change Password**. Enter the old password, new password, confirm the new password, and then tap **OK** to save.

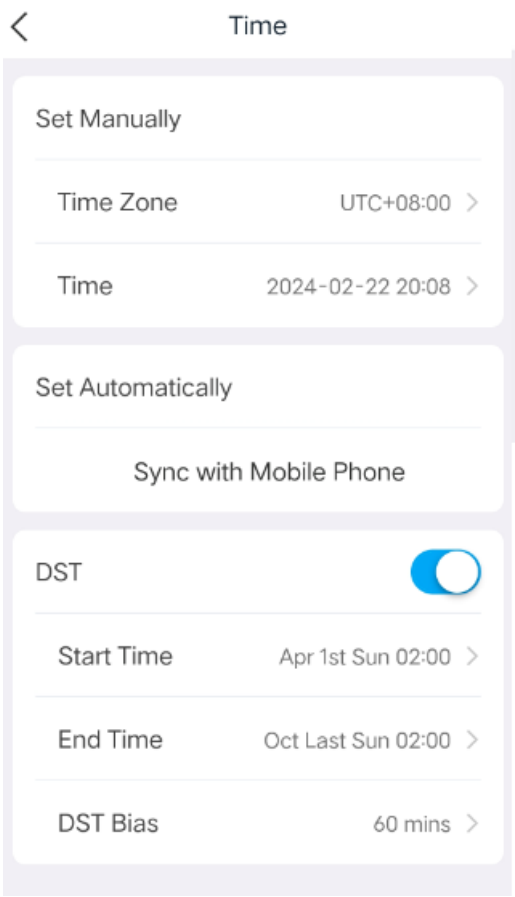
  Note: The password of NVR channels cannot be changed on the app.
- Sync phone location: Tap **Get GPS Coordinates**. The mobile phone will send its geolocation data to the camera. This enables the camera to display its geolocation information when added to an upper-level platform.

  Note: This function is available to certain device models only. Please refer to the actual screen.
- Restart device: Tap **Restart** and confirm the operation.

9.1.2 Time

Modify the time zone and time of a device. You can adjust the time settings manually or use the automatic sync function to keep the time settings of the device synchronized with those of the mobile phone.

1. On the **Settings** page, tap **Time**.



2. Choose a way to adjust time settings of the device.
   - Set manually: Tap **Time Zone** or **Time**, and then adjust the time zone or time in the pop-up box. Tap **OK** when you complete.
   - Set automatically: Tap **Sync with Mobile Phone**. The time zone and time settings of the device will be synchronized with those of your mobile phone.

9.1.3 More Settings

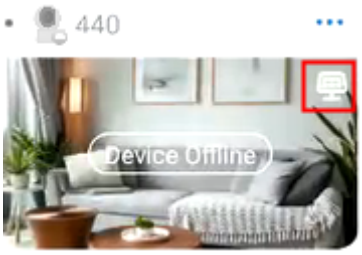
Advanced configuration provides a portal to the device's web interface for quick configuration.

1. On the **Device Info** page, tap **More Settings**.
2. Enter the username and password of the device to access the device's web interface.

9.2 Solar Configuration

For certain solar device models, once connected to a camera using a network cable and bound to the camera on the app, the solar device can power the camera. Additionally, the camera can provide network access to the solar device.

After establishing the connection, a solar device icon will appear in the upper-right corner of the device information card on the project details page. You can also tap ••• > **Solar Config** for the camera to view the details of the bound solar device and configure settings as needed.



Bind Solar Device to Camera

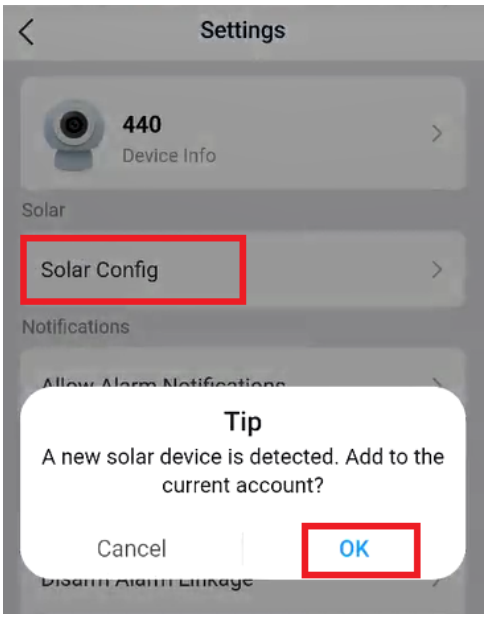
After connecting the camera to the solar device using a network cable, you can bind the solar device to the camera through the app using the following methods:

- Scenario 1 (solar device already added to your account):

  If the solar device has been added to your account by scanning the QR code on the device, the solar device will automatically bind to the connected camera.

- Scenario 2 (solar device not added to any account):

  1. On the project details page, tap ••• > **Device Config** > **Solar Config** for the camera.
  2. Confirm the connection between the solar device and the camera in the pop-up window. Once succeeded, you will be redirected to the device details page of the solar device.

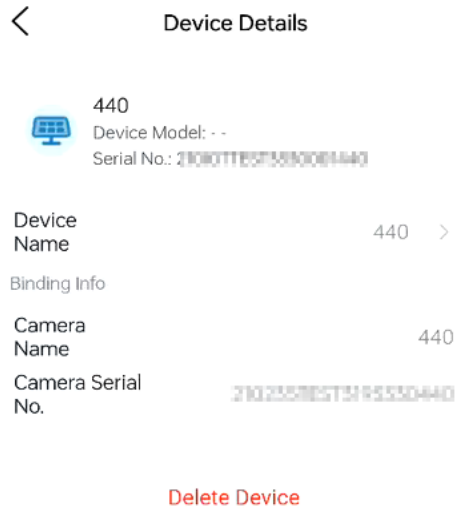


- Scenario 3 (solar device already added to another account):

  1. Delete the solar device from the other account.
  2. Log in to your account and follow the steps in Scenario 2.

Rename & Delete

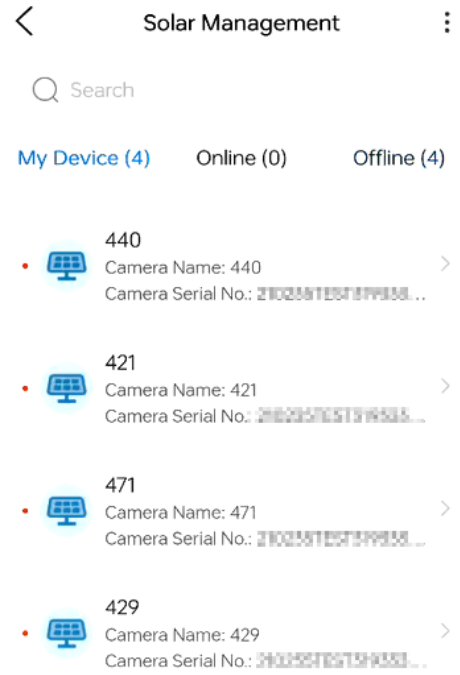
On the project details page, tap ••• > **Solar Config** for a camera or tap  and select a solar device to enter the **Device Details** page, and then you can rename or delete the solar device from the account.



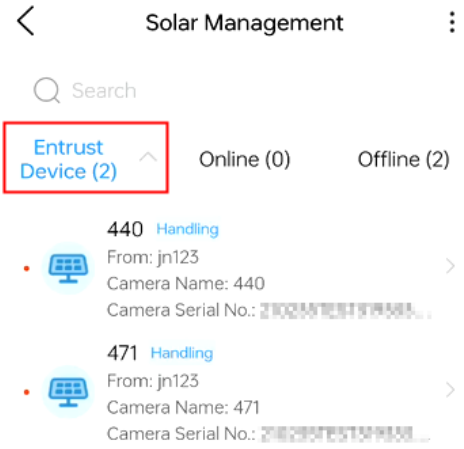
Solar Device List

On the project details page, tap Solar to view all solar devices under the project.

You can filter devices by online status, search by name, and tap on a device to enter its details page.



If the solar device is entrusted by an end-user, you can go to **Default** project > Solar and switch to **Entrust Device** using the drop-down list to view it.



Move to Another Project

- **To move a camera and its bound solar device**: If a solar device is bound to the camera, a pop-up window will appear during import. Once confirmed, both the camera and the bound solar device will be moved to the target project. See Import from Other Project.
- **To move a solar device only**: On the project details page, select Solar > ⋮ > **Change Project**. Select the target project and device(s) to move, and then tap **Move**.

Transfer Device

- **To transfer a camera and its bound solar device**: If a solar device is bound to the camera, a pop-up window will appear during transfer. Once confirmed, both the camera and the bound solar device will be transferred. See Device Delivery.
- **To transfer a solar device only**: On the project details page, select 

> ⋮ > **Deliver Device**. Select device(s) to transfer, tap **Transfer**, enter the recipient's information, and then tap **Transfer**.

9.3 Alarm Configuration

9.3.1 Alarm Detection

For certain device models, there is a **Smart Protection** module where functions such as motion detection and human body detection are reintegrated for unified management.

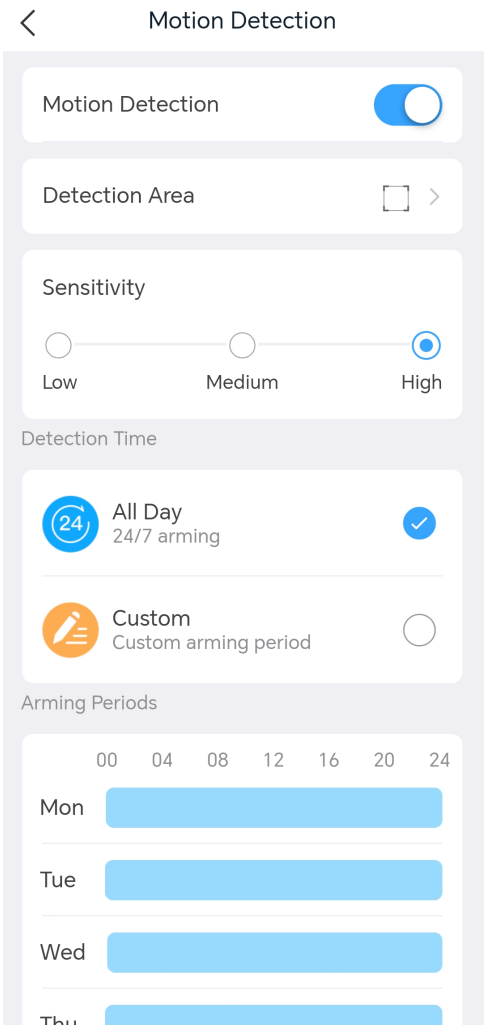
When **Smart Protection** is enabled, you can configure parameters for detection functions. The set parameters (detection area, sensitivity, detection time, alarm linkage, etc.) apply to all detection functions.

9.3.1.1 Motion Detection

An alarm will be triggered when motion is detected in the specified area.

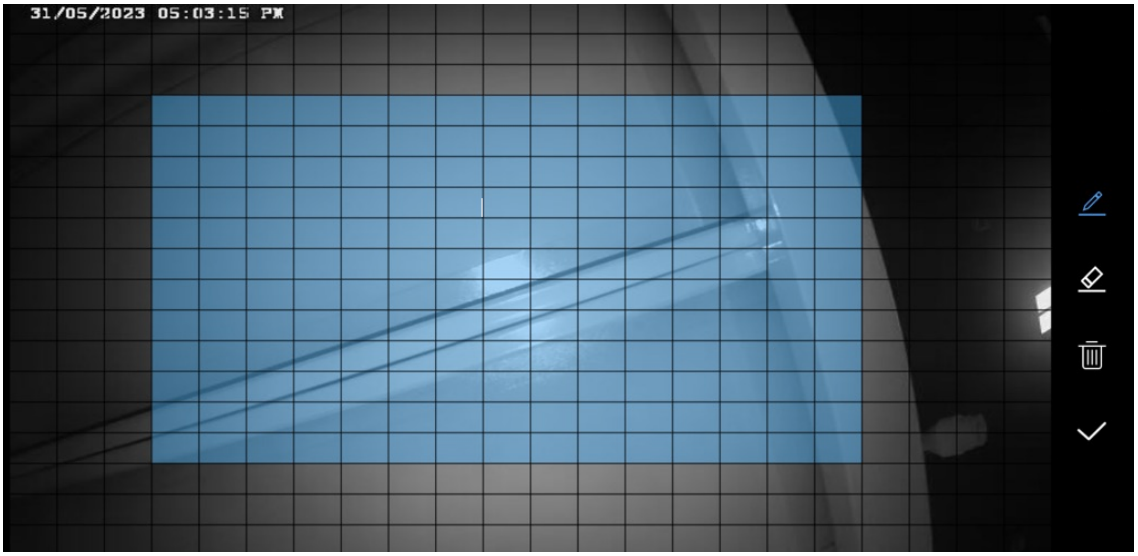
Note: The settings saved on the app will overwrite those on the device.

1. Tap **Alarm Detection** > **Motion Detection**.



2. Enable **Motion Detection**.

3. Draw the detection area.
   - Draw area: By default, the entire screen is the detection area (blue). Tap and then drag on the screen to erase detection area; tap and then drag on the screen to draw detection area (blue). After completing the drawing, tap to save the area.
   - Redraw area: Tap to clear the existing area on the image, and then tap to redraw. Tap when you complete.



4. Set the detection sensitivity.

   Choose a sensitivity level: high, medium, or low. The higher the sensitivity level, the smaller the detectable pixels become, making it easier to trigger an alarm. However, this also leads to an increase in the false alarm rate.

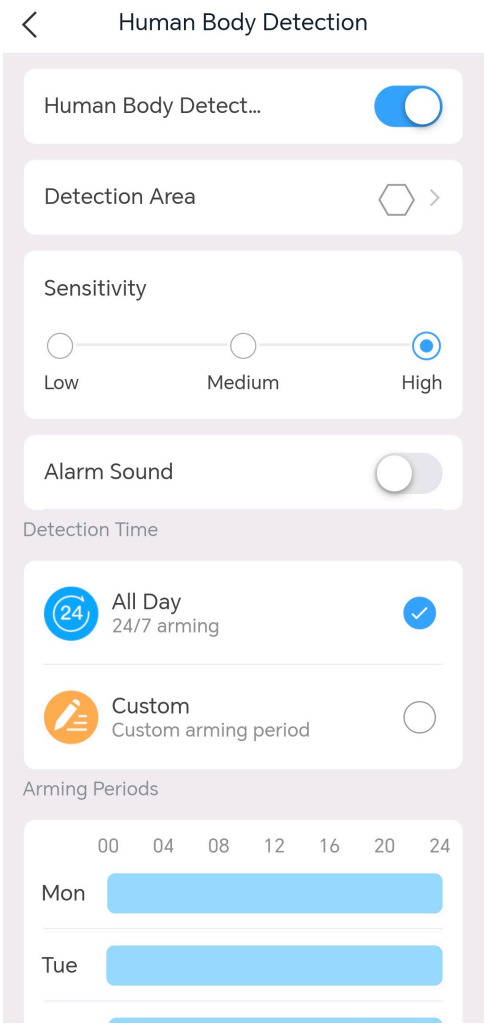
5. Set the detection time.

   The detection time can be set to all-day or a specified time period. When **Custom** is selected, you need to select day(s) and set the arming period for each day. Once complete, tap **Save**. The device will perform detection only within the specified arming periods.

9.3.1.2 Human Body Detection

An alarm will be triggered when a person is detected in the specified area.

1. Tap **Alarm Detection** > **Human Body Detection**.

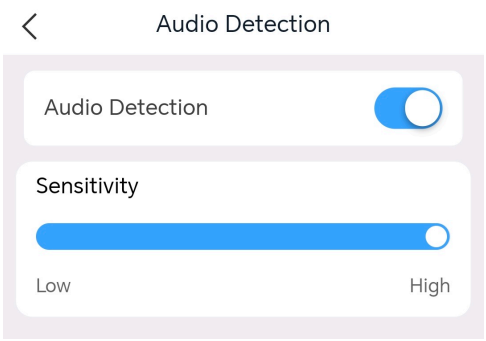


2. Enable **Human Body Detection**.
3. Draw the detection area and set the detection sensitivity and alarm sound. Please refer to Intrusion Detection.
4. Set the detection time. Please refer to Motion Detection.

9.3.1.3 Audio Detection

An alarm will be triggered when a sudden increase or decrease in sound is detected.

1. Tap **Alarm Detection** > **Audio Detection**.

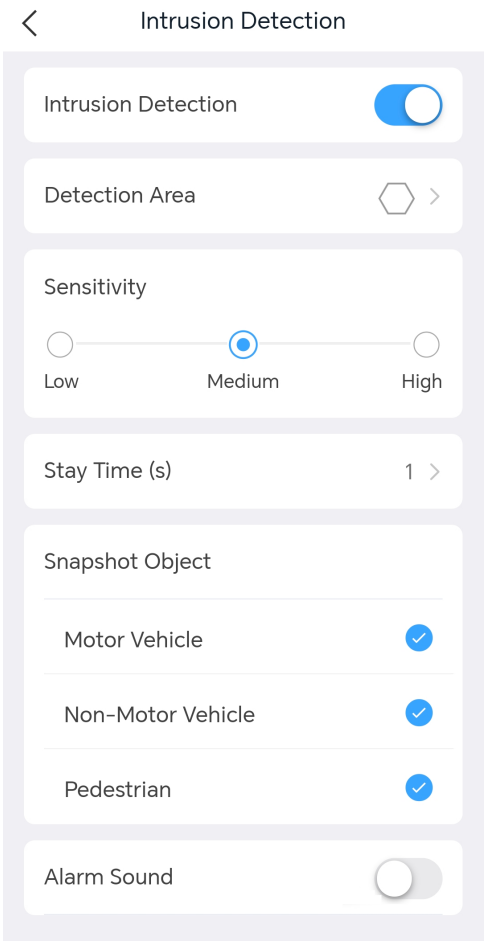


2. Enable **Audio Detection**.
3. Drag the slider to adjust the detection sensitivity according to your actual needs or testing. A higher sensitivity level indicates easier detection.

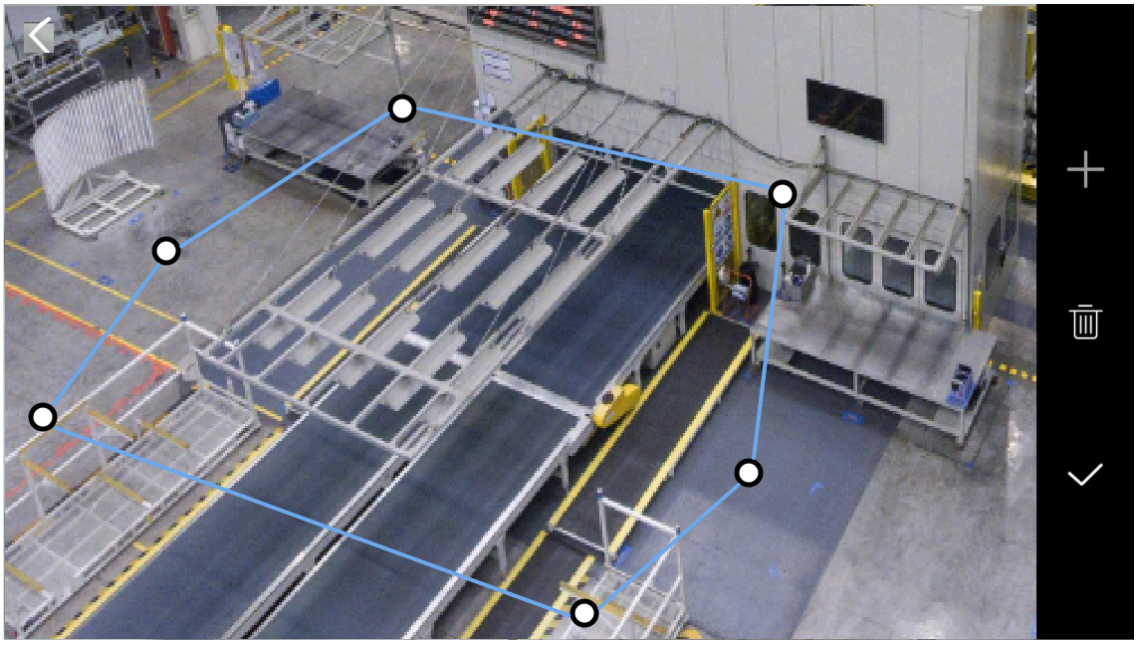
9.3.1.4 Intrusion Detection

An alarm will be triggered when a target enters the specified area and stays above the set time threshold.

1. Tap **Alarm Detection** > **Intrusion Detection**.



2. Enable **Intrusion Detection**.
3. Draw the detection area.
   - Draw area: Tap ＋ on the right side. A hexagon appears on the screen. Drag a vertex to adjust the shape as needed. After you complete the drawing, tap ✓ to save the area.
   - Redraw area: Tap 🗑 to clear the existing area on the image, and then tap ＋. A hexagon appears on the screen. Drag a vertex to adjust the shape as needed. After you complete the drawing, tap ✓ to save the area.



4. Set the detection sensitivity.

   Choose a sensitivity level: high, medium, or low. The higher the sensitivity level, the smaller the detectable pixels become, making it easier to trigger an alarm. However, this also leads to an increase in the false alarm rate.

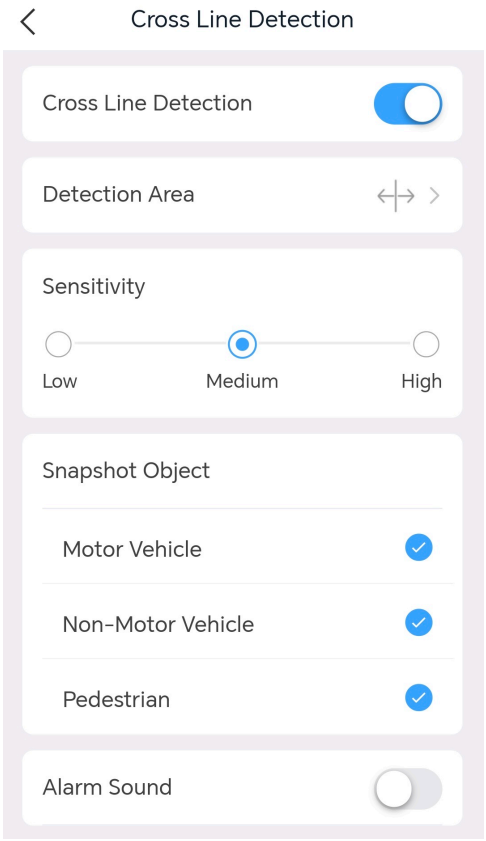
5. Set the stay time. An alarm will be triggered if the detected target enters the specified area and stays above the set time threshold.
6. Choose the object(s) for detection, including motor vehicle, non-motor vehicle, and pedestrian.
7. (Optional) Enable **Alarm Sound**. When enabled, you need to choose a linkage mode and specify an alarm sound that will be played when an alarm is triggered.

   Note: Up to 3 arming schedules can be configured. The time range of the configured schedules must not overlap.

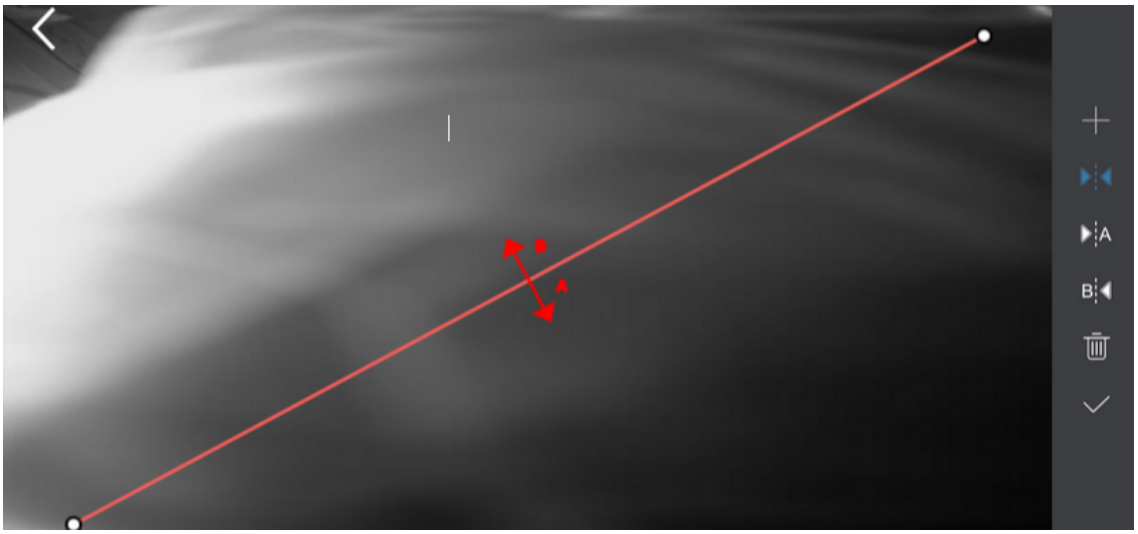
9.3.1.5 Cross Line Detection

An alarm will be triggered when a target crosses the specified line with the specified direction.

1. Tap **Alarm Detection** > **Cross Line Detection**.



2. Enable **Cross Line Detection**.
3. Draw the detection line. An alarm will be triggered when a target crosses the detection line with the specified direction.
   - Draw detection line: Tap on the right side. A detection line appears, with two directions (A and B). You can drag an end of the detection line to the desired position. By default, an alarm will be triggered when an object crosses the line in either direction (from A to B or from B to A). You can tap or to change the trigger direction. The direction pointed by the arrow is the trigger direction. For example, if the arrow points from A to B, then an alarm will be triggered when an object crosses the detection line from A to B; an alarm will not be triggered when the object crosses the detection line from B to A. When you complete the drawing, tap to save the detection line.
   - Redraw detection line: Tap to clear the existing detection line, and then tap . A new detection line appears on the screen. Adjust its position and direction as needed. When you complete the drawing, tap .

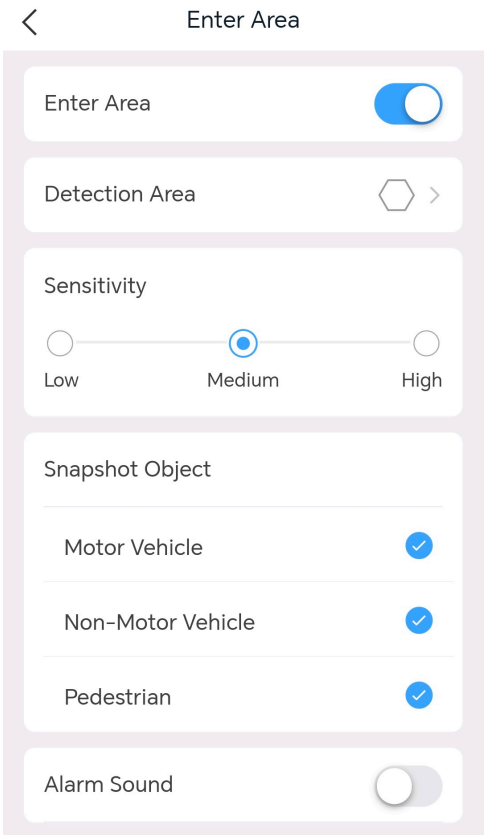


4. Set other parameters as needed. Please refer to Intrusion Detection.

9.3.1.6 Enter Area

An alarm will be triggered when a target enters the specified area.

1. Tap **Alarm Detection** > **Enter Area**.

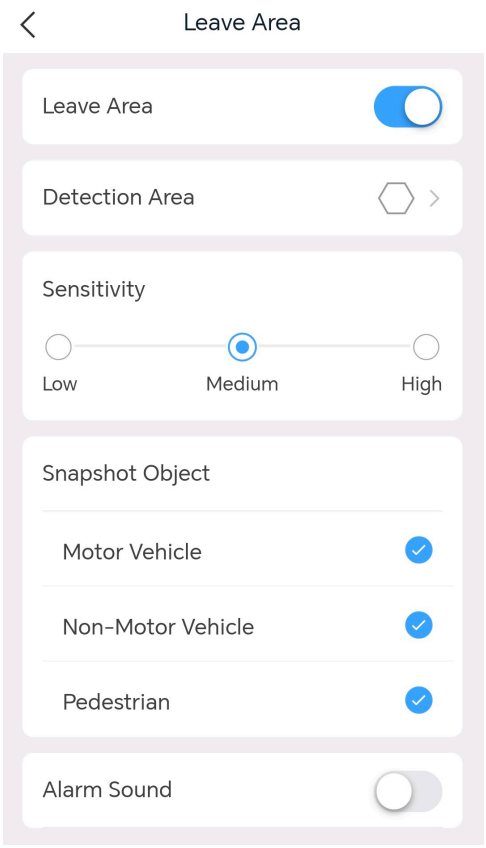


2. Enable **Enter Area**.
3. Set other parameters as needed. Please refer to Intrusion Detection.

9.3.1.7 Leave Area

An alarm will be triggered when a target leaves the specified area.

1. Tap **Alarm Detection** > **Leave Area**.

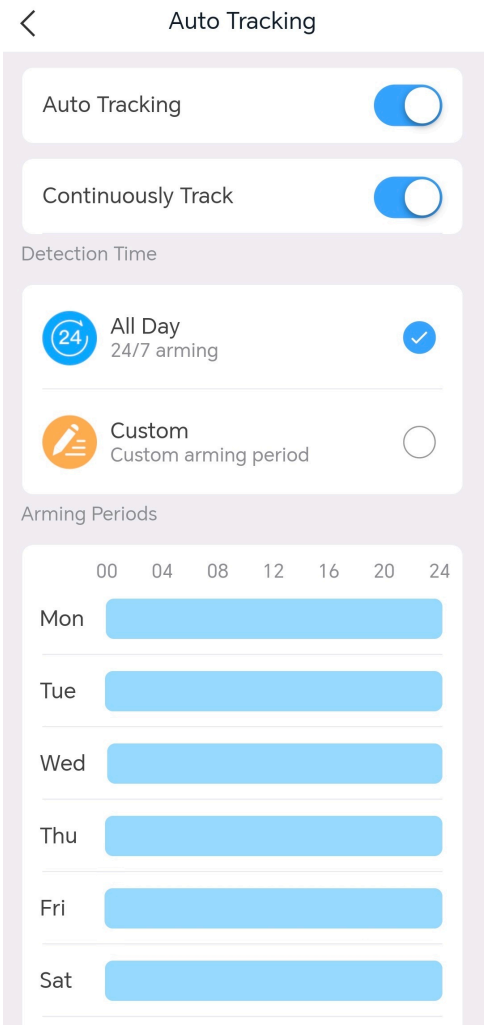


2. Enable **Leave Area**.
3. Set other parameters as needed. Please refer to Intrusion Detection.

9.3.1.8 Auto Tracking

The camera automatically tracks the detected object within the set detection time.

1. Tap **Alarm Detection** > **Auto Tracking**.

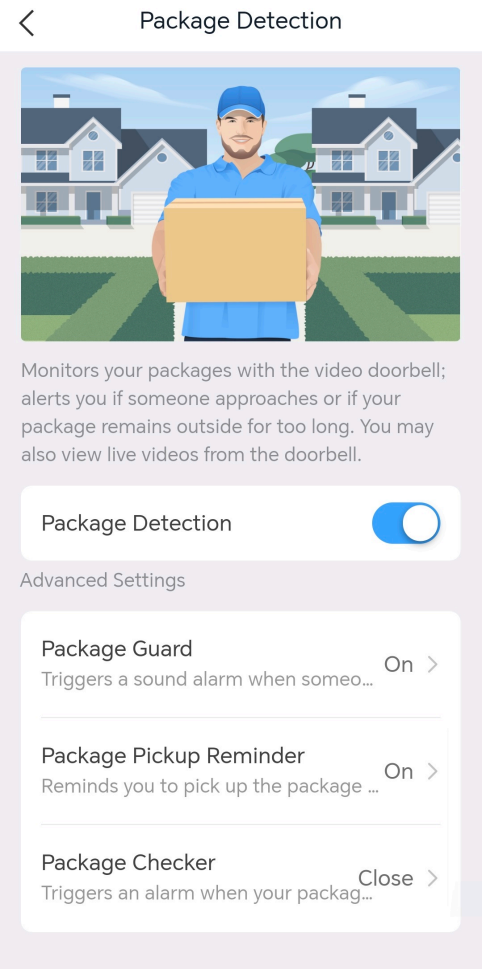


2. Enable **Auto Tracking**.
3. Select whether to enable **Continuously Track**.
   - When enabled, the device will track the detected object until it leaves the detection area.
   - When disabled, the device will track the detected object according to the set maximum tracking time.
4. Set the detection time.

   The detection time can be set to all-day or a specified time period. When **Custom** is selected, you need to select day(s) and set the arming period for each day. Once complete, tap **Save**. The device will perform detection only within the specified arming periods.

9.3.1.9 Package Detection

Monitors your packages with video doorbell; alerts you if someone approaches or if your package remains outside for too long.



1. Tap **Alarm Detection** > **Package Detection**.
2. Tap to enable package detection.
3. In advanced settings, you can enable or disable functions and configure parameters for package detection as needed.
   - Package Guard: Triggers a sound alarm when someone approaches your package during the detection period.
     - Alarm sound: You can use the built-in alarm sounds in the app, or manually add custom sounds.
     - Detection time: Package guard function only works within the set time periods.
   - Package Pickup Reminder: If your package remains outside after the check time, a pop-up window will display to remind you to pick it up.
   - Package Checker: Reports an alarm when your package is delivered or picked up.

9.3.2 Disarm Alarm Linkage

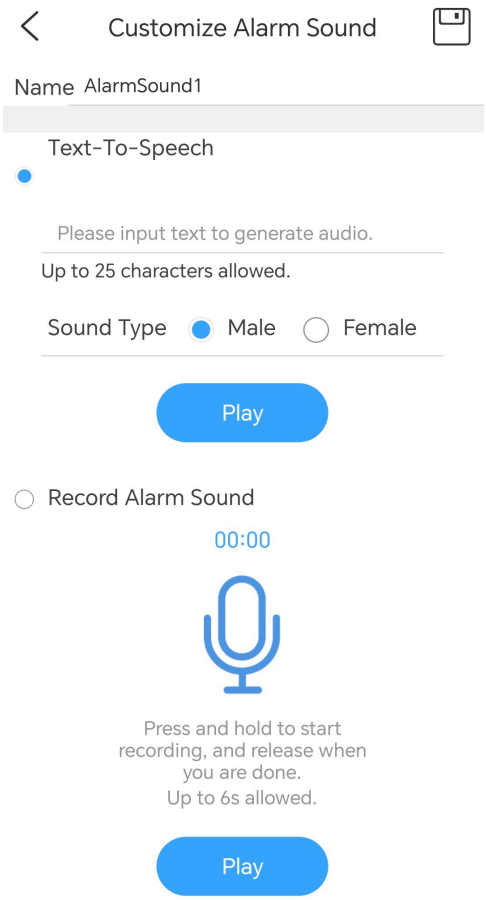
You can disarm the system to deactivate alarm linkage during the disarming period.

1. On the **Settings** screen, tap **Disarm Alarm Linkage**.
2. To disarm, tap . When enabled, alarm linkage does not take effect during the disarming period.

9.3.3 Customize Alarm Sound

Customize alarm sound so that the device will play your preferred alarm sound when an alarm occurs.

1. On the **Settings** page, tap **Customize Alarm Sound**.
2. Tap **Add Alarm Sound**.



3. Enter the alarm sound name.
   - Text-To-Speech: Enter the text to be generated, choose a sound type (male or female). The system will convert the text into audio. Tap **Play** to try it on your mobile phone.
   - Record Alarm Sound: Press and hold to start recording, and release to stop recording. The maximum length is 6 seconds. Tap **Play** to try it on your mobile phone.
4. Tap in the top right corner to save the alarm sound.
5. To customize more alarm sounds, repeat the above steps.

After you complete adding alarm sounds, you can:

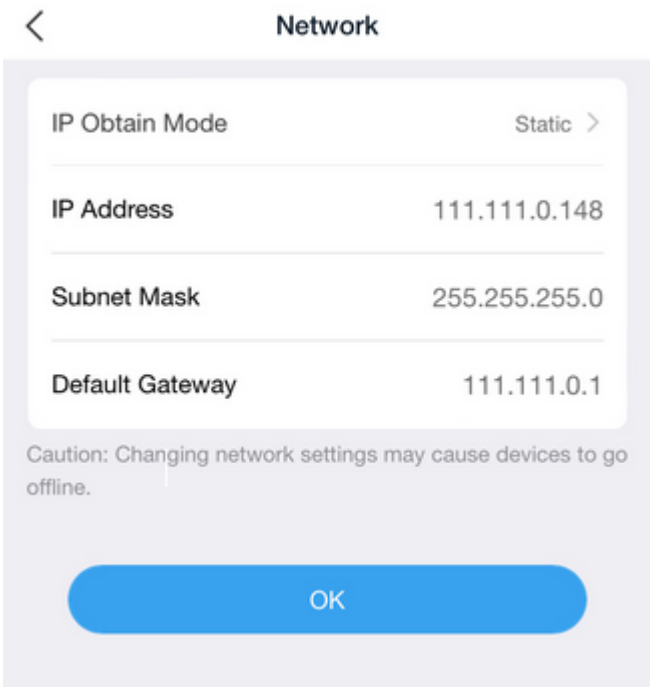
- Edit: Tap to rename the alarm sound.
- Delete: Tap to delete the alarm sound.
- Play (listen near the device): Tap to play the alarm sound on the device.

9.4 General Configuration

9.4.1 Network

Modify a device's network configuration.

1. On the **Settings** page, tap **Network**.
2. Modify network configuration as needed. The parameters are described as follows.



- IP obtainment mode: Choose static IP address or DHCP.
- IP address: Set the device's IP address.
- Subnet mask: Set the device’s subnet mask.
- Default gateway: Set the device's default gateway.

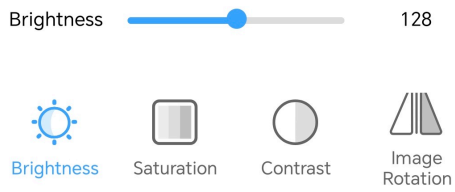
3. Tap **OK** to save the settings.

9.4.2 Image

Brightness

The brightness of the image.

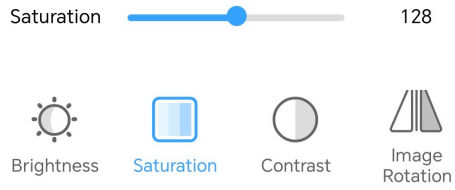
Switch to the **Brightness** tab. Drag to slider to adjust the brightness. Default: 128.



Saturation

The intensity and purity of colors in the image.

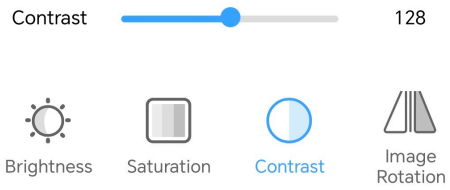
Switch to the **Saturation** tab. Drag the slider to adjust the saturation. Default: 128.



Contrast

The ratio of black to white in the image, representing the gradation from black to white.

Switch to the **Contrast** tab. Drag the slider to adjust the contrast. Default: 128.



Rotation

Switch to the **Image Rotation** tab. Mirror the image, including normal, vertical, horizontal, 180°, 90° clockwise, and 90° anti-clockwise.

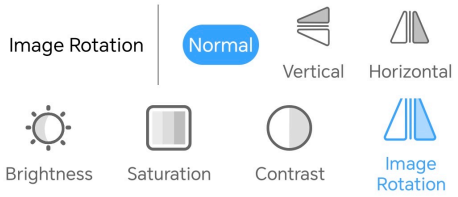
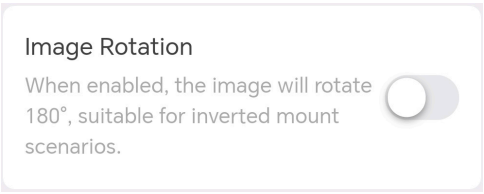


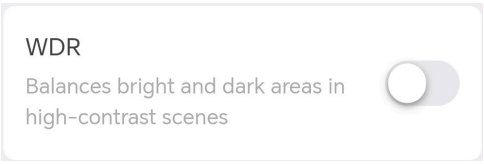
Image Rotation

When enabled, the image will rotate 180°, suitable for inverted mount scenarios.

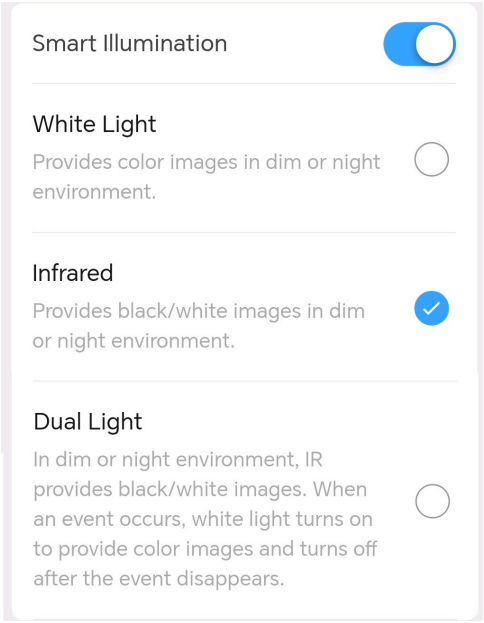


WDR

Balances bright and dark areas in high-contrast scenes.



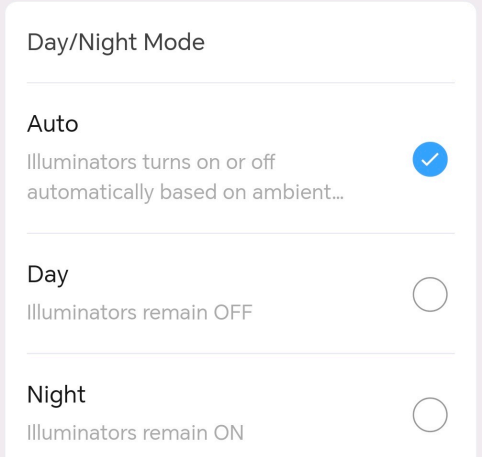
Smart Illumination



- White light mode: The device renders color images at night or in a low-light environment.

- Infrared mode: The device renders black and white images at night or in a low-light environment.
- Smart dual-light: When at night or in a low-light environment, the infrared light is activated to render black and white images. When an event is triggered, the white light is activated to render color images; the device restores the previous state after a certain period of time after the event is ended.

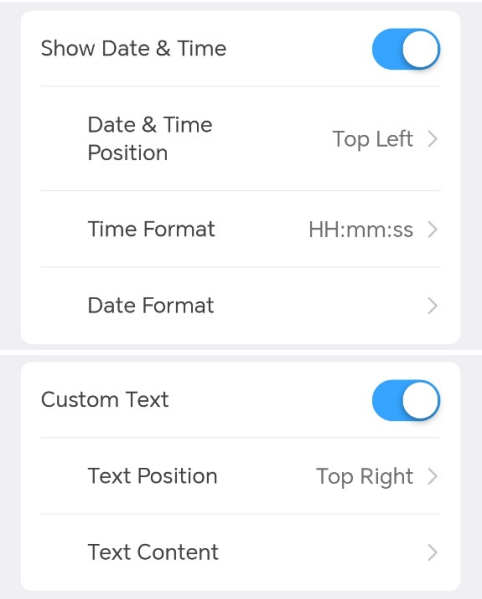
Day/Night Mode



- Auto: The device automatically switches between black and white mode and color mode based on changes in the ambient light.
- Day: The device uses the daylight to provide high-quality images.
- Night: The device uses the low-light to provide high-quality images.

OSD Configuration

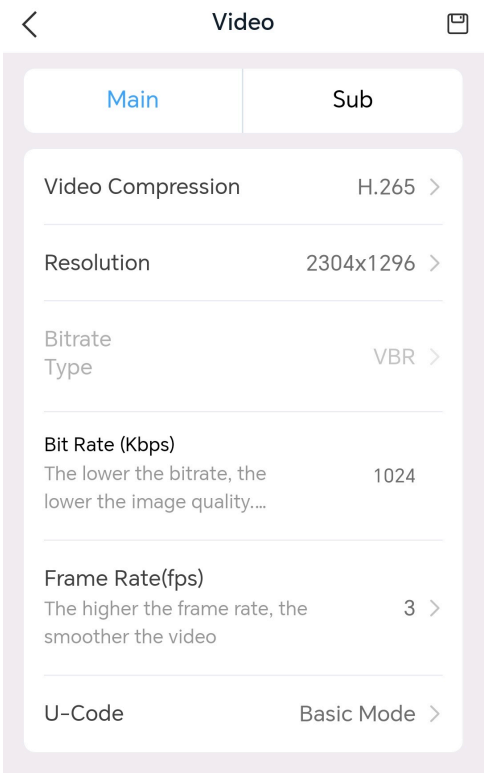
OSD (On Screen Display) refers to the text and time information that is overlaid on the image and displayed on the screen.



9.4.3 Video

Configure video stream parameters of the device.

1. On the **Settings** screen, tap **Video**.
2. Adjust stream parameters as needed. The parameters are described below.

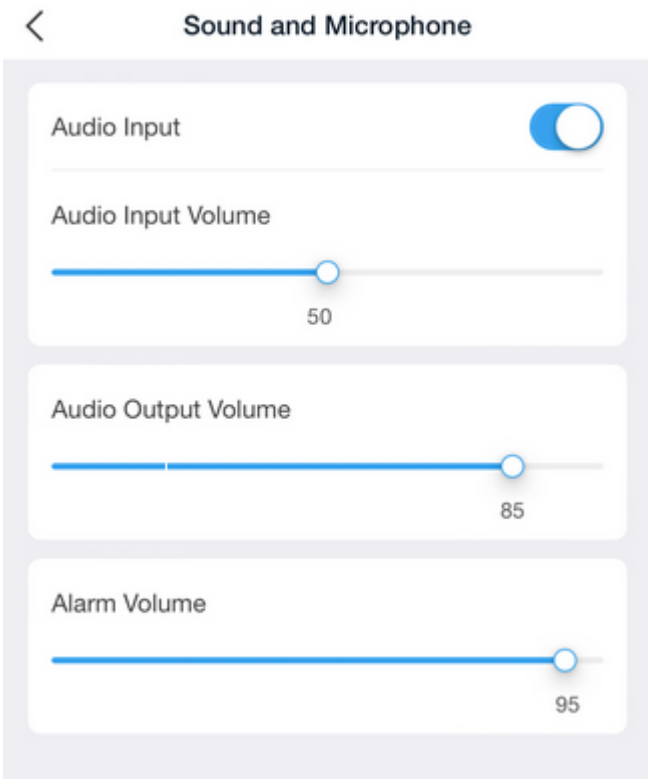


- Video Compression: Converts original video files into a selected format using standardized video compression algorithms for efficient transmission and storage.
- Resolution: The number of pixels per inch, directly affecting the image size. Higher resolution means larger images, while lower resolution means smaller images.
- Bitrate Type:
  - VBR: The bitrate fluctuates in real-time, with a customizable upper limit. It dynamically adjusts the bitrate based on the image to ensure clarity in dynamic images and maintaining good overall image quality. It may increase the compression time.
  - CBR: Uses a fixed bitrate. Improper bitrate setting may result in unclear images.
- Bit Rate: The amount of data encoded per second by the encoder. At a fixed resolution, a higher bitrate delivers better image clarity, while a lower bitrate may result in blurrier images. It is recommended to use the default value.
- U-Code:
  - Off: Suitable for wired devices.
  - Basic Mode: At a fixed image quality, the bitrate is lower, occupying less storage space. Suitable for Wi-Fi devices.
  - Advanced Mode: At a fixed image quality, the bitrate is even lower, occupying even less storage space. Suitable for Wi-Fi devices.

3. Tap .

9.4.4 Sound and Microphone

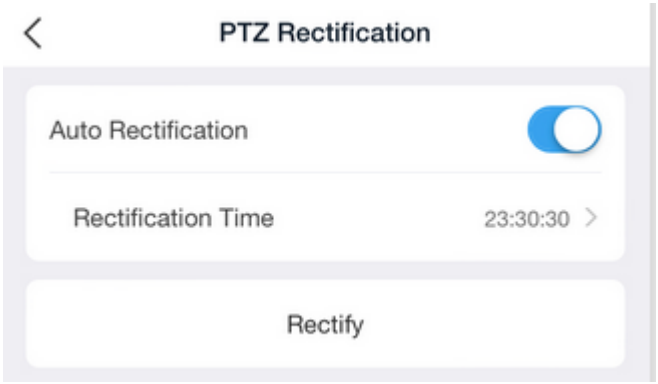
1. On the **Settings** page, tap **Sound and Microphone**.
2. After enabling **Audio Input**, you can drag the blue slider to adjust the volume of audio input/output and alarm.



9.4.5 PTZ

Use the PTZ rectification function to perform a PTZ self-check. You cannot operate the PTZ until the self-check is completed. The device will rotate to the saved position when the self-check is completed.

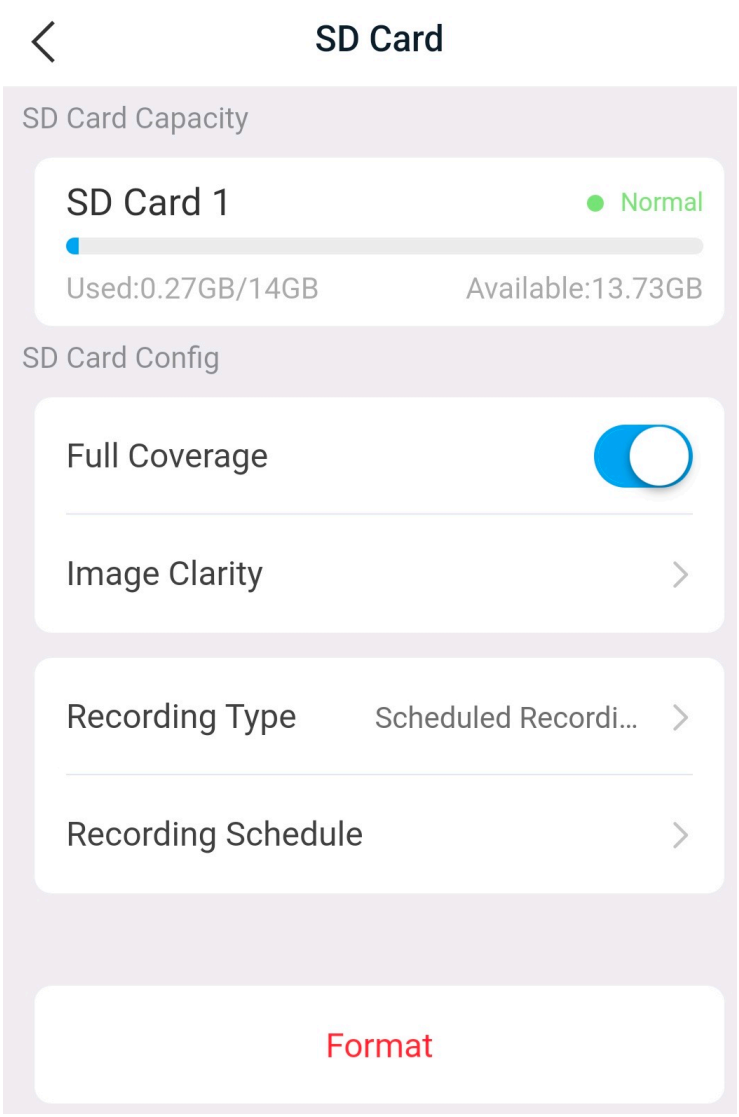
1. On the **Settings** page, tap **PTZ** > **PTZ Rectification**.



2. Choose a way to perform PTZ rectification.
   - Manual rectification: Tap **Rectify** to start rectification immediately.
   - Auto rectification: Enable **Auto Rectification**, and then set a time for automatic rectification. The device will perform rectification automatically at the set time.

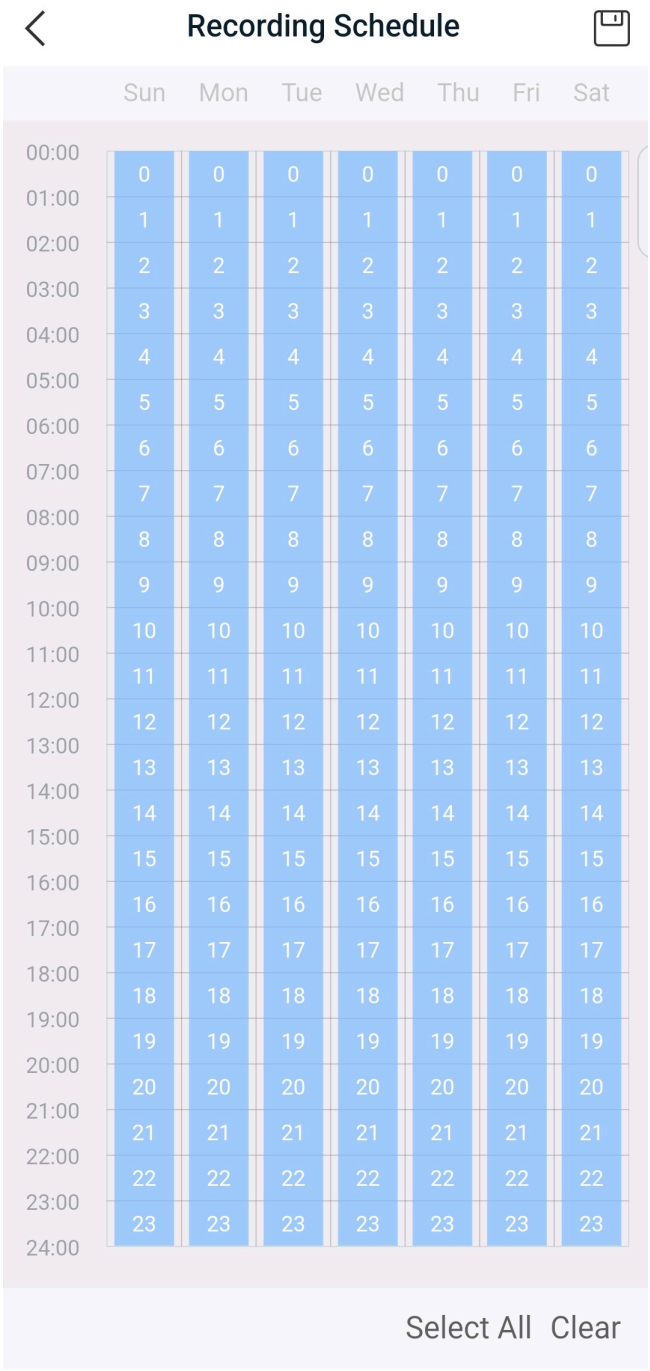
9.4.6 Storage

1. On the **Settings** page, tap **Storage**, enter **SD Card** page.



Note:
This section includes all the instructions for storage configuration. Please refer to the actual interface for specific configuration options.

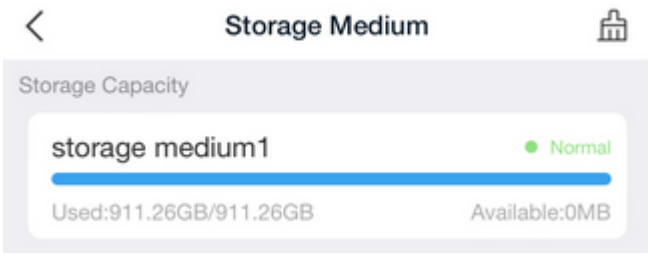
2. View and configure the SD card on the **SD Card** page.
   - Full Coverage: When enabled, the earliest recordings saved on the SD card will be overwritten when the space is used up. When disabled, video recording will stop when the space is used up.
   - Image Clarity: Choose the desired stream type. The lower the clarity, the less storage space required.
   - Recording Type: Choose to record scheduled recordings or event recordings.
   - Recording Schedule: Configure a recording schedule for the device to automatically record video based on the set time and recording type.



9.4.7 Storage Medium

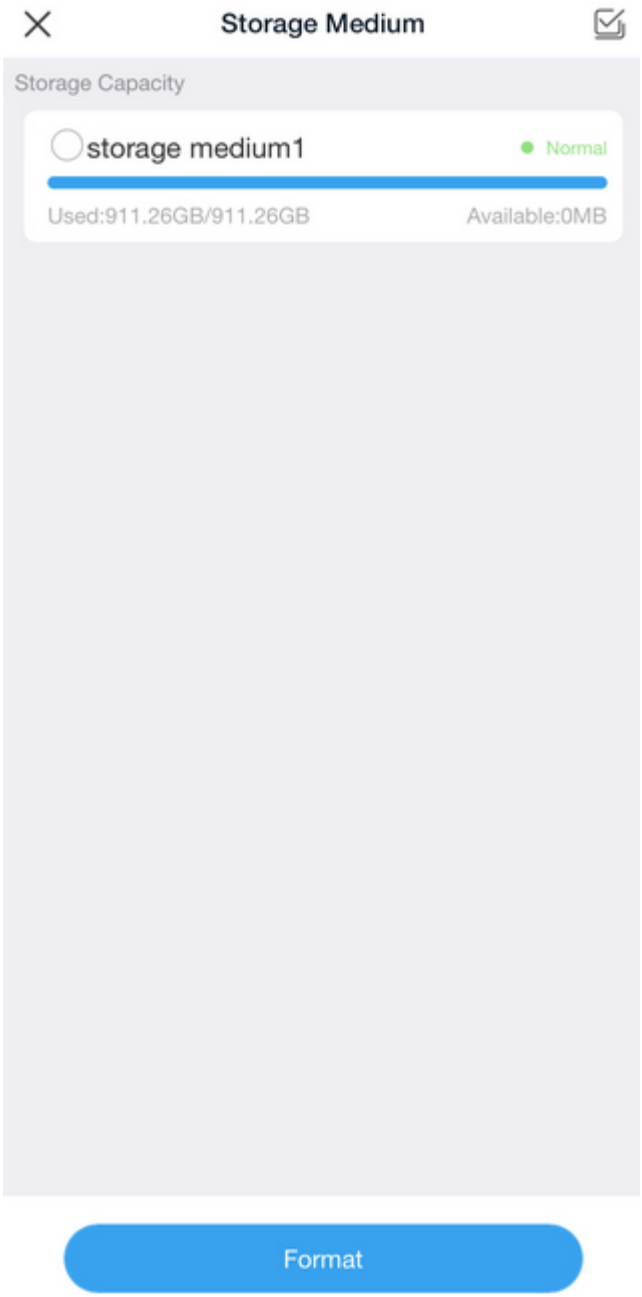
View the storage medium status of an NVR or format storage medium.

1. On the **Settings** page, tap **Storage Medium**.



2. On the **Storage Medium** page, view storage medium status or format storage medium. To format storage media:

(1) Tap in the top right corner, select the storage medium you want to format, or tap in the top right corner to select all.



(2) Tap **Format** at the bottom, and then confirm.

9.4.8 Chime Configuration

Chime is designed to work with doorbell through a binding process. Once bound, pressing the doorbell button will trigger the chime to sound, alerting you indoors. A wireless doorbell can be paired with either one mechanical chime or up to 3 wireless chimes.

Note:

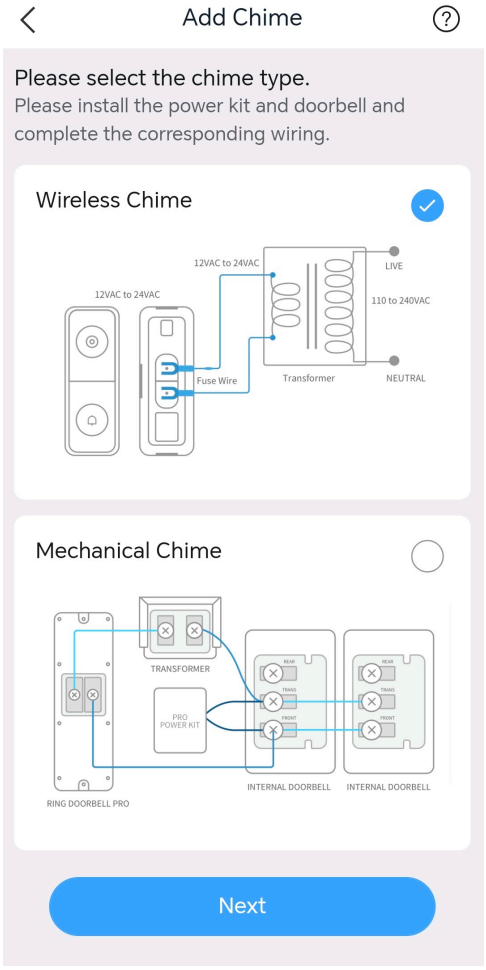
- A wireless doorbell can only be paired with one type of chimes (wireless/mechanical) at a time. If you switch the chime type, all previously added chime(s) will be cleared.
- Before adding, please ensure the chime is installed correctly according to the wiring diagram (by tapping in the upper-right corner) and the chime is powered on.

On the **Settings** screen, tap **Chime Config**.

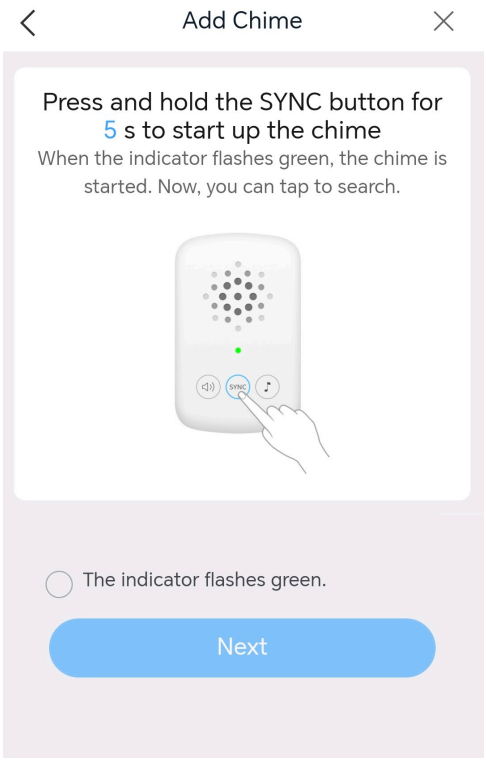
Add Wireless Chime

Add chimes one by one. Up to 3 chimes can be added.

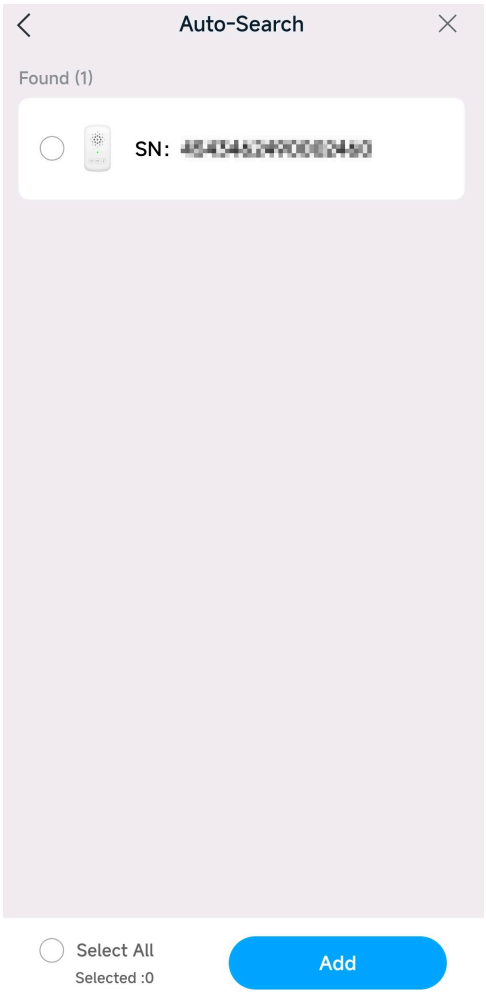
1. Tap **Add Chime** and select **Wireless Chime** as the type.



2. Press and hold the SYNC button on the chime until the indicator light flashes green, then release.
3. Select <The indicator flashes green.>, and tap **Next**. The system will automatically search for available wireless chimes.



4. Select the wireless chime you want to add in the list and tap **Add**. If the chime emits a ding-dong sound, the chime is added successfully.

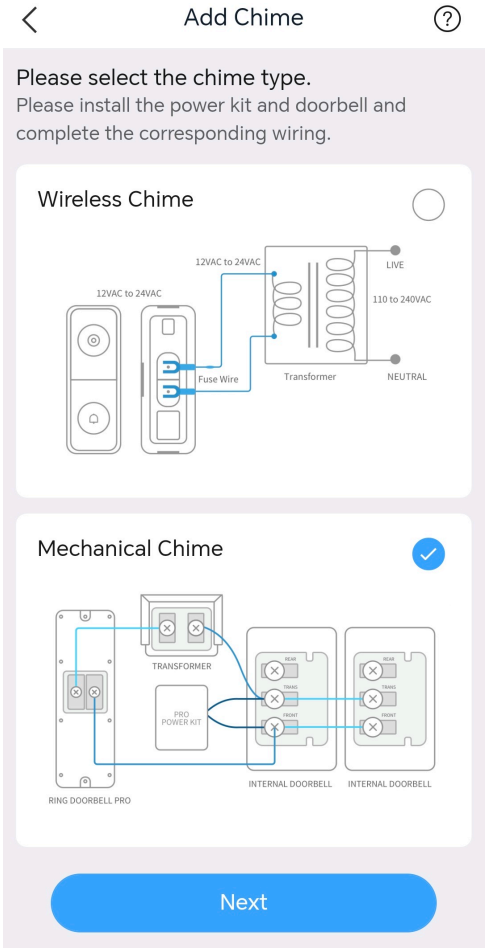


Add Mechanical Chime

You can only add one mechanical chime.

Note: Please make sure the doorbell is wired properly as illustrated; otherwise, the doorbell may be damaged.

Tap **Add Chime** and select **Mechanical Chime** as the type. If the wiring is correct and the mechanical chime is powered on, the doorbell will automatically detect it, and the chime information will display in the list.

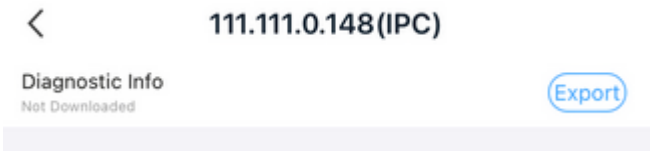


9.5 More

Export device diagnostic information, test device connection speed, etc.

Export Device Diagnostic Information

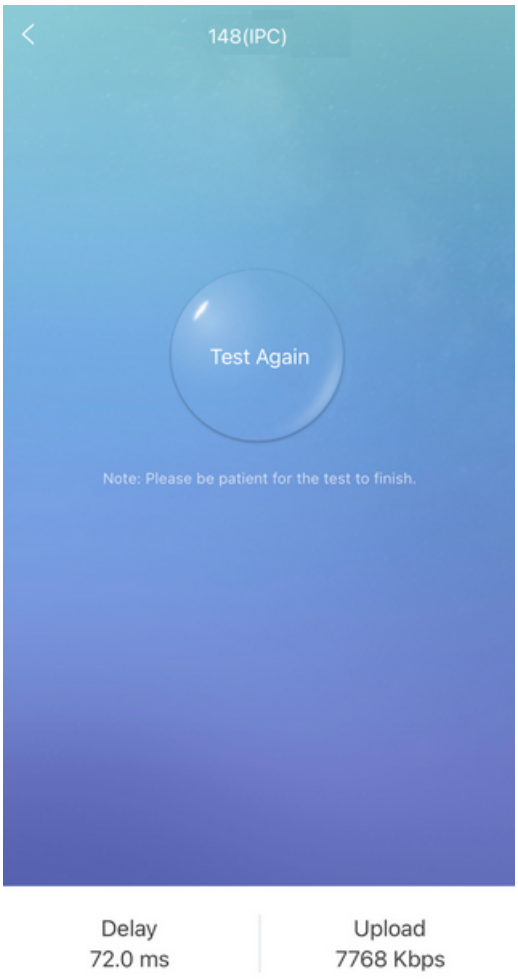
1. On the **Settings** screen, tap **More** > **Export Device Diagnostic Info**.



2. Tap **Export** to save the device diagnostic information to your mobile phone for troubleshooting or technical support.

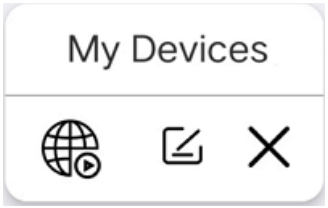
Speed Test

1. On the **Settings** screen, tap **More** > **Speed Test**.
2. Tap **Test Speed** to view the device's network connection speed.



Device Packet Capture

On the **Settings** screen, tap **More** > **Capture Packets**.



- Tap to start packet capture.
- Tap to set packet capture parameters, including NIC, packet size, IP filtering, and port filtering.
- Tap to close the window.

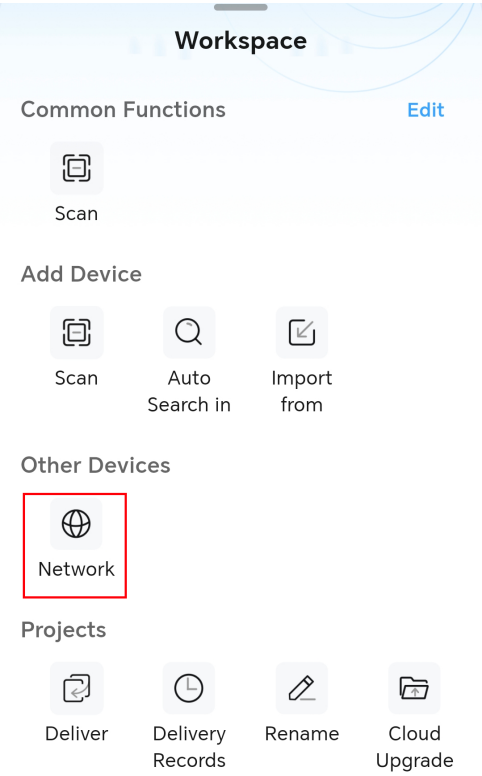
Device Restore

- Default: Restore all factory default settings except network and user settings.
- Factory default: Restore all factory default settings including network and user settings.

10 Switch Management

View the port and network topology information of switches. You can also perform operations such as device setup and upgrade.

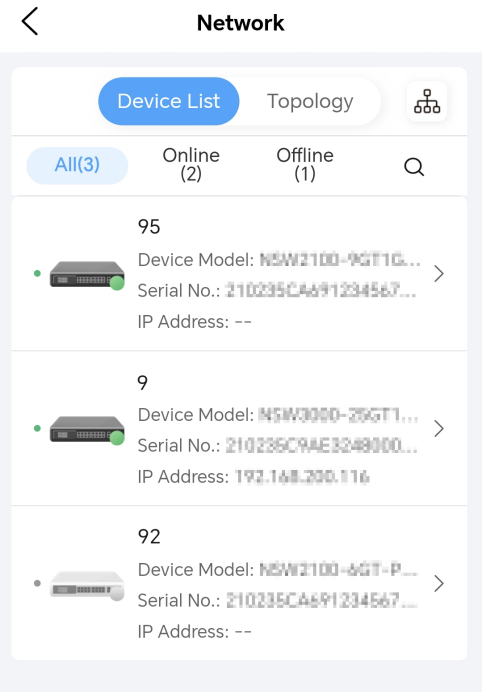
Tap on a project in the project list to view project details. Swipe up on the workspace, and then tap **Network** to view switches.



Note: The supported functions may vary with switch models. Please refer to the actual screen.

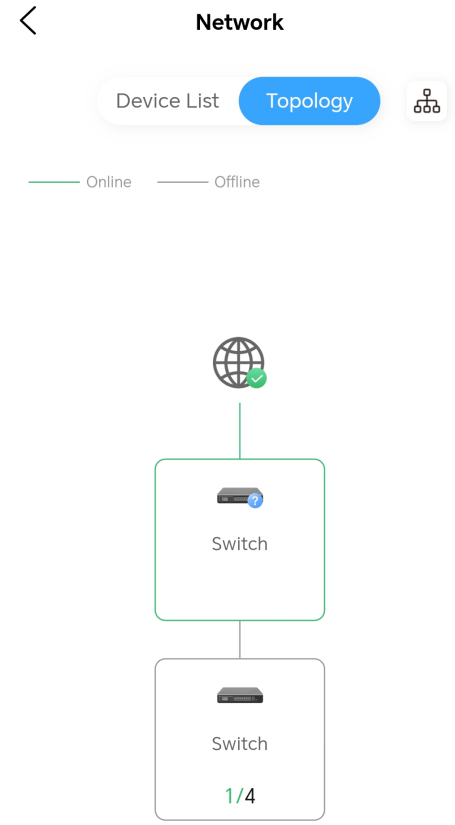
Device List

View all/online/offline switches. You can search switches by device name/serial number. Tap on a device to view device details.



Topology

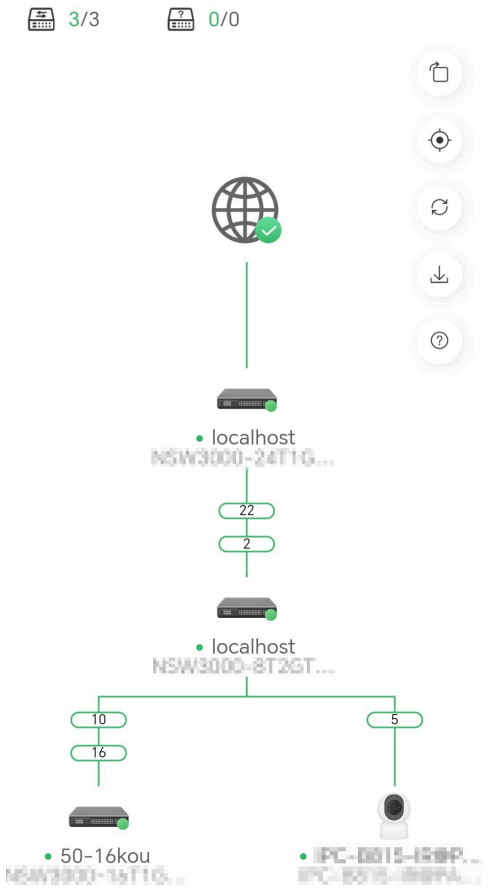
View the switch's network topology.



- Gesture operations: Pinch open/closed to zoom in/out on the topology; move the topology position using one finger.
- Tap on a switch icon on the topology to view device details.

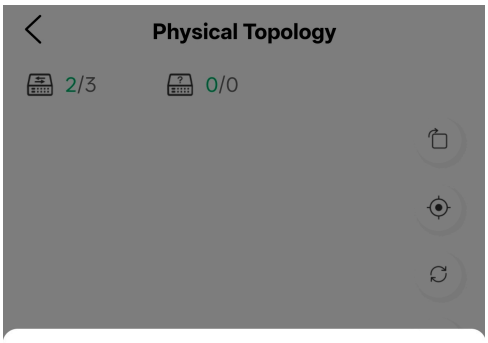
Physical Topology

: Tap to view the physical topology.



Tap on a device icon to display the device information.

- For switches bound to the current account, you can tap **View Setup** to view the switch's detailed information.
- For online cloud devices bound to the current account, you can also view its live video.
- The device information includes the version information, device name, device model, etc. You can tap to copy the device information to the clipboard.



Device Operations

Setup View Setup >

Device Info

Version Info

Device Name ck

Device Model [redacted]

Serial No. [redacted]

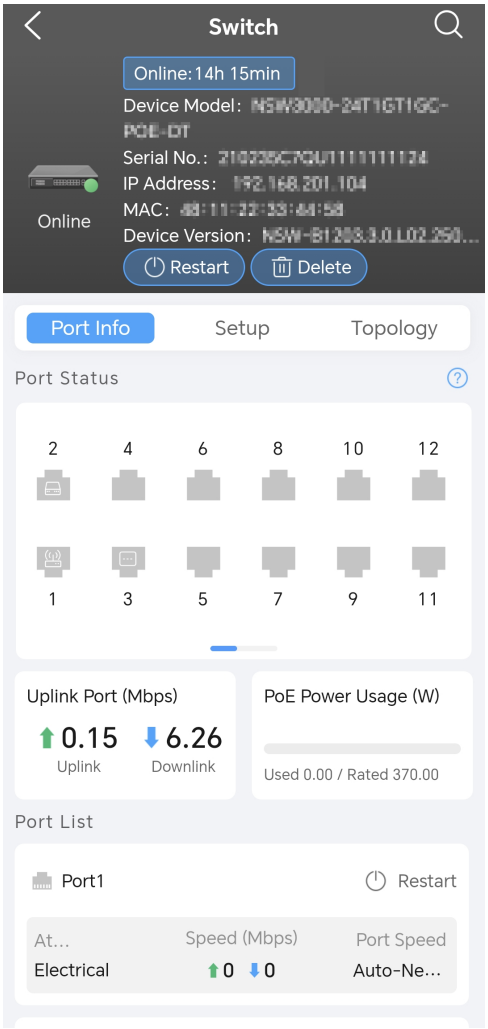
Management IP

Online Online

Uplink Device Port

Local Port

10.1 Switch Details & Port Info



View the switch's basic information (device model, serial number, IP address, etc.).

(For NSW3000 series only) Tap in the upper-right corner to discover devices (IPC/NVR/switch) not registered to the cloud on the LAN. One-click adding is supported. For detailed instructions, please refer to the descriptions at the end of section Scan QR Code.

10.1.1 Port Status

Tap to view the port icon descriptions.

- Port Type (distinguished by shape): electrical port; optical port; uplink port; aggregated port.
- Port Status (distinguished by color and corner label): up; disconnect; error; PoE; closed; looped.
- Device Connection Type: AC; AP; bridge; router; IPC; NVR; other; PC; printer; server; switch.

10.1.2 Restart

- Restart Switch: Tap **Restart** at the top to restart the switch.

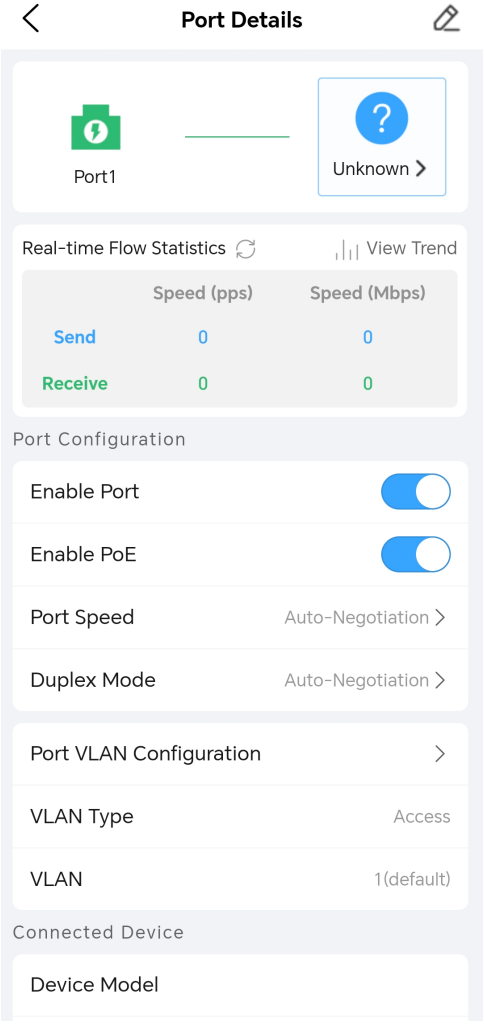
- Restart Port: In the port list, tap **Restart** for a port to restart the port; or go to the port details to restart the PoE power supply for the downlink port.

10.1.3 Delete

Tap **Delete** at the top and confirm the deletion to delete the switch from the project.

10.1.4 Port Details

To view port details, tap on a port icon in Port Status or tap on a port in the port list.

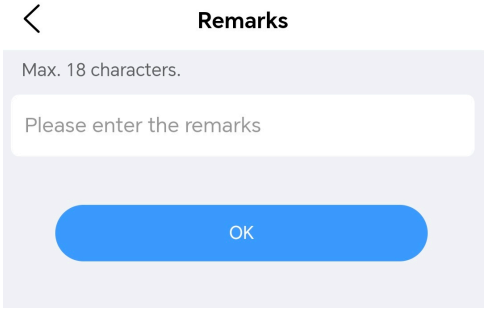


Edit Port Remarks

Default port name format: Port + No. You can add a remark to distinguish the port.

The remarks will be displayed next to the port name.

1. Tap .



2. Enter the remarks (max. 18 characters).
3. Tap **OK**.

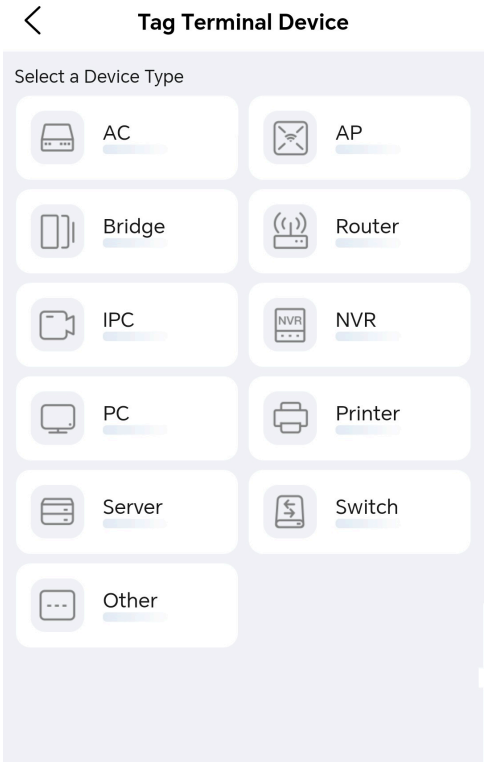
Tag Device Type

Tag the device type connected to the port. Once tagged, the device type will be displayed on the right side.

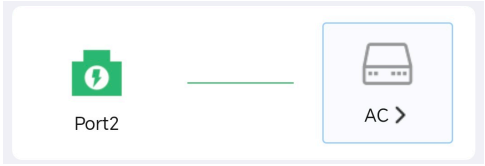
Some device types (IPC, NVR, switch, etc.) are displayed automatically as they can be recognized automatically.

For batch configuration, please go to Setup > Tag Terminal Device.

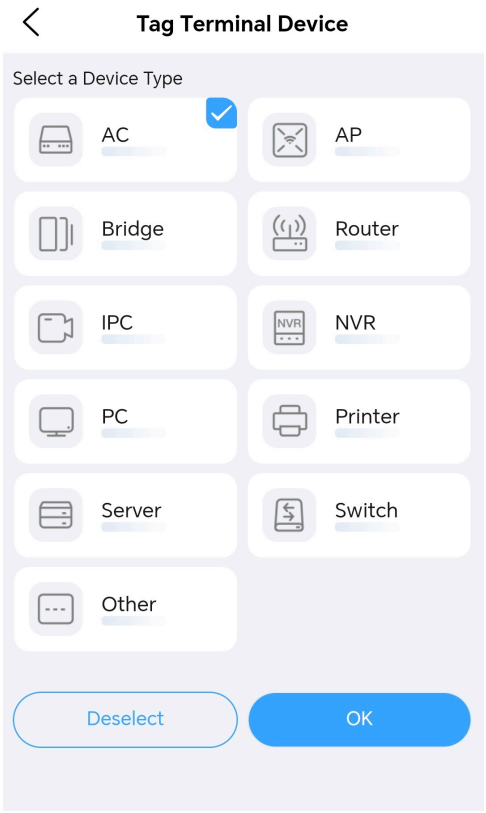
- Add Tag
  1. Tap on the icon on the right side.



  2. Select a device type (e.g., AC), and then tap **OK**. The icon on the right side changes.



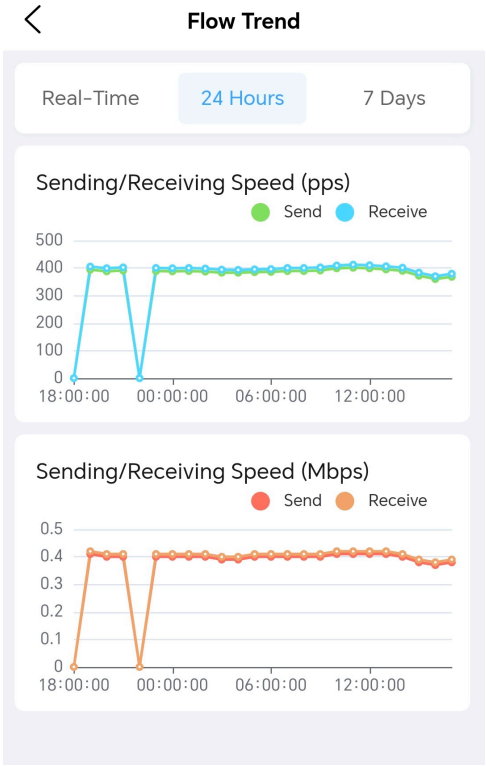
- Edit/Cancel Tag: Tap on the icon on the right side.
  - Edit: Select a new device type, and then tap **OK**.
  - Cancel: Tap **Deselect** and confirm the operation.



Real-time Flow Statistics

Displays the real-time data receiving and sending speed. You can tap to refresh the statistics.

Tap **View Trend** to view data trends for real-time, 24 hours, and 7 days.



By default, both sending and receiving trends are displayed (legend example: Receive). To hide a trend type, tap on the legend (e.g., Receive), and the legend will be grayed out (e.g., Receive).

Enable Port

Tap to enable the port; otherwise, the port will be unusable.

Enable PoE

Tap to enable PoE power supply for the connected device.

Port Speed

The maximum data transmission speed that the port can handle. Higher port speeds can support more concurrent user and device connections without causing network congestion.

Duplex Mode

The working mode of the port for sending and receiving data, which determines the direction and mode of data flow.

- Full-Duplex: Data can be sent and received simultaneously. Suitable for high-bandwidth, high-traffic environments.
- Half-Duplex: Data cannot be sent and received simultaneously. Suitable for low-bandwidth, low-traffic environments.
- Auto-Negotiation: The port and the connected device automatically negotiate the duplex mode and speed. This mode is the most common method and ensures the optimal communication.

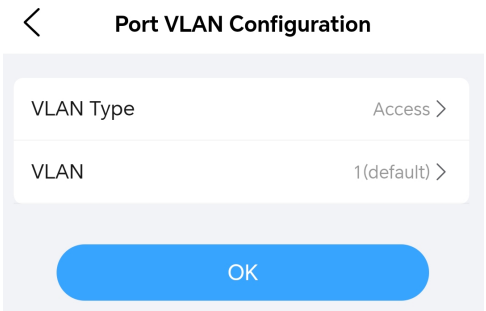
Port VLAN Configuration

Configure the VLAN type and parameters for the port.

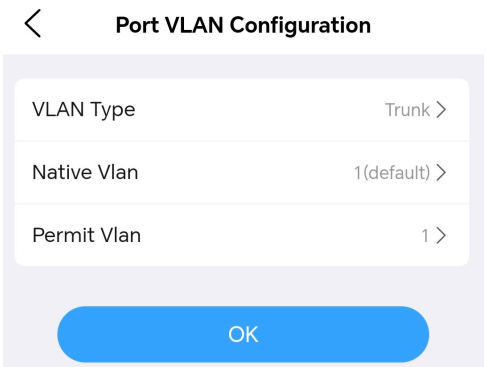
For batch configuration, please go to Setup > VLAN Advanced Settings.

Note: Member ports only support the Access type VLAN and do not support additional configuration.

- Access: Connects to a terminal device such as IPC and NVR. Additionally, a unique VLAN ID (default: 1; range: 1-4094) must be assigned to identify and distinguish VLANs in the switch and network devices.



- Trunk: Connects to other switches or routers. Additionally, the following two types of VLAN IDs (default: 1; range: 1-4094) must be assigned.



  - Native VLAN: Only one Native VLAN is allowed, used to specify the untagged VLAN transmits over the Trunk port. By default, VLAN1 is typically the Native VLAN.

Data frames from a Trunk port to a non-Trunk port (e.g., Access port) belonging to the Native VLAN will not be tagged. This simplifies the configuration and management of non-Trunk ports.

- Permit VLAN: Select VLAN(s) to specify which VLAN's data can be transmitted over the Trunk port.

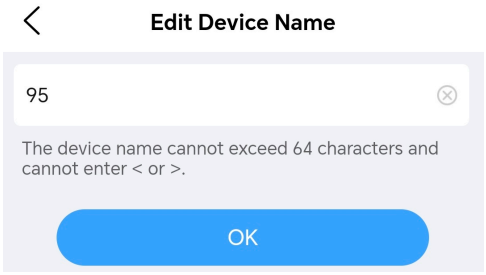
Connected Device

Once the port is connected to a device, the device's model and IP address will be displayed here.

10.2 Setup

10.2.1 Device Name

1. Tap **>**.



2. Set a custom device name. The name cannot exceed 64 characters and must not include < or >.
3. Tap **OK**.

10.2.2 Firmware Upgrade

For online devices, the system automatically detects the latest version of the device.

- If it is the latest version, you can tap **Latest Version** to view the current version information.
- If a new version is available, you can tap **Upgrade** to view the current version and the latest version, and follow the on-screen instructions to upgrade.

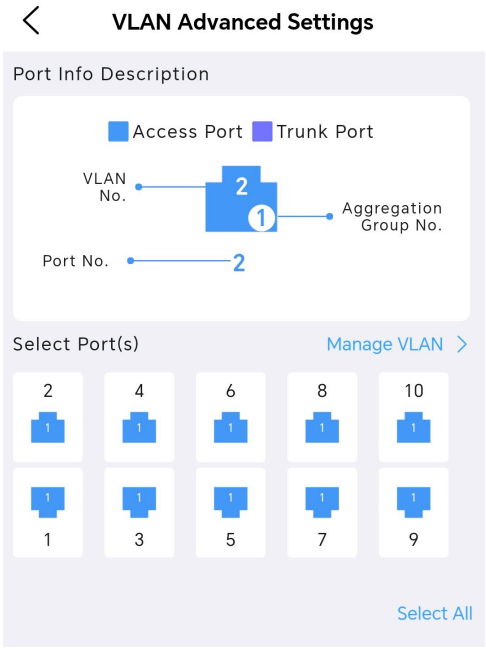
10.2.3 Receive Device Alarms

Tap for **Receive Device Alarms** to enable it. When enabled, you can view device alarms on the Alarm page in the app.

Additionally, when enabled, you can enable/disable **App Push Notification** as needed to set whether to push device alarms to your mobile phone.

10.2.4 VLAN Advanced Settings

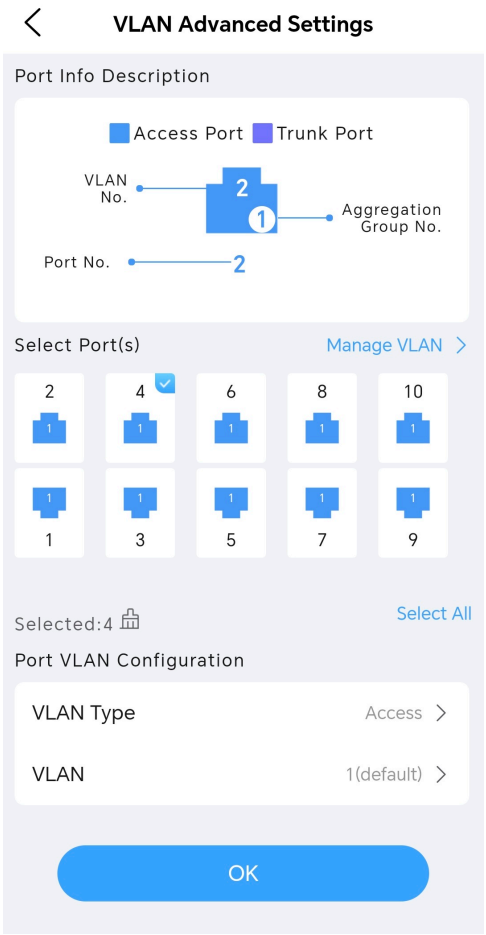
Configure VLAN parameters for ports.



Configure VLAN Parameters

1. Select port(s) for configuration. The parameters of the latest selected port will be displayed below.

   Note: Tap **Select All** to select all ports except member ports.

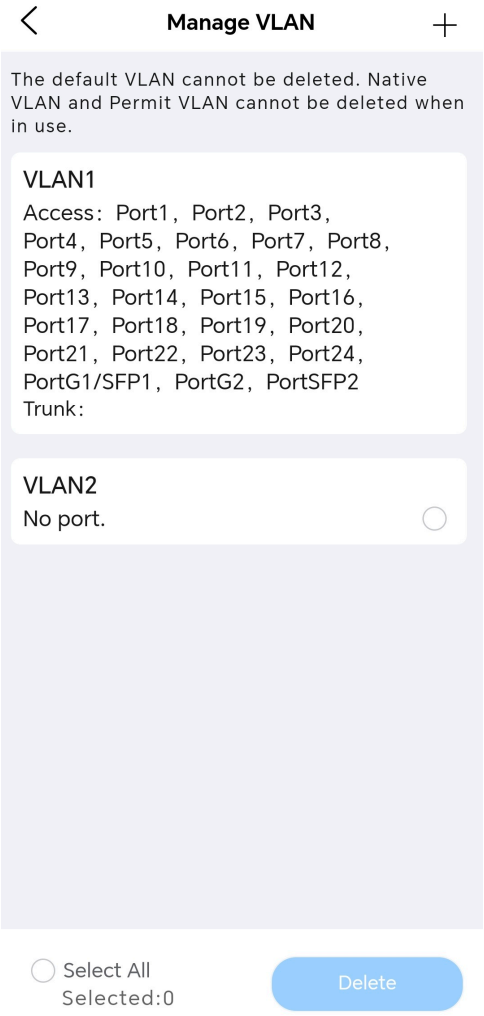


2. Set the parameters. See Port VLAN Configuration.
3. Tap **OK**. Please wait for a while, refresh the page, and then re-select the port to check if the configuration is effective.

Manage VLAN Parameters

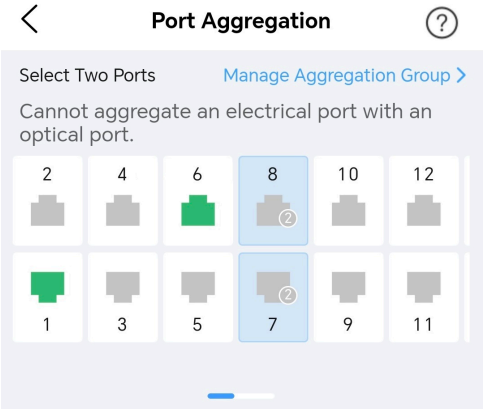
Tap **Manage VLAN** to view the Access ports and Trunk ports associated with each VLAN ID.

The default VLAN cannot be deleted. Native VLAN and Permit VLAN cannot be deleted when in use.



10.2.5 Port Aggregation

Combine multiple physical ports into a single logical link to provide higher bandwidth and more reliable data transmission.



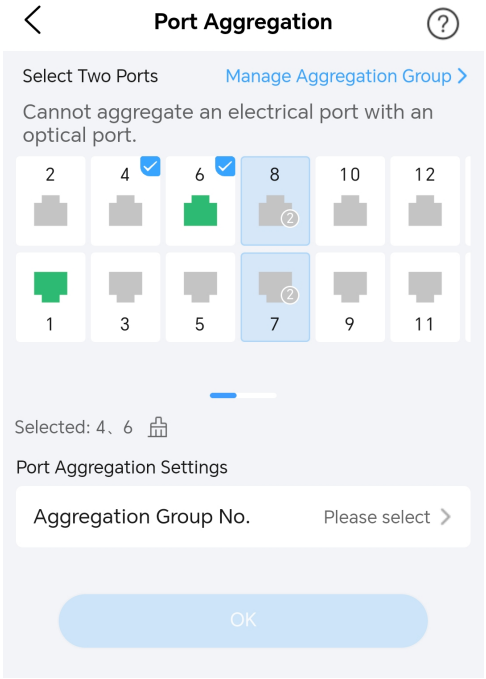
Port Type

- 100M model, 1000M PoE model: **Both** support one aggregation group of two uplink ports. The aggregation group number is fixed to 1.
- 1000M non-PoE model: Supports aggregation of either two uplink ports or two downlink ports. Up to 8 aggregation groups are allowed. The aggregation group number can be customized and must be unique.

Add Aggregation Group

Each aggregation group can include only two **unaggregated electrical ports**.

1. Select 2 ports, and the configuration information will be displayed below.

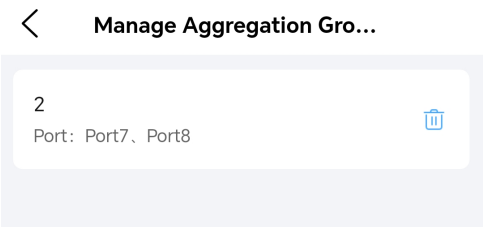


2. For 1000M non-PoE models, please set an aggregation group number (range: 1-8, must be unique).
3. Tap **OK**.

Management Aggregation Group

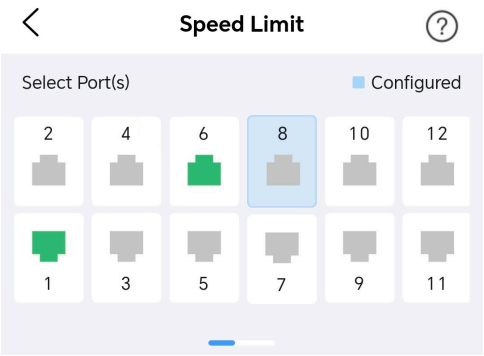
Tap **Manage Aggregation Group** to view existing aggregation group(s).

Tap and confirm the operation to unbind the aggregation group.



10.2.6 Speed Limit

Controls the transmission speed of specific ports (excluding member ports) to ensure network stability and performance, and guarantees sufficient bandwidth for critical applications and services.

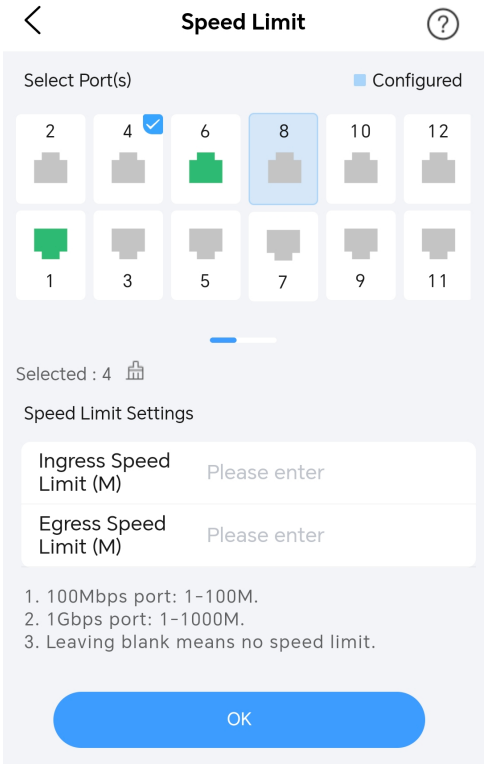


Different device models may have varying effective ranges among ports. For batch configuration, please select ports with the same effective range; otherwise, the configuration may fail.

- 100Mbps Port Speed Limit: 1-100Mbps

- 1Gbps Port Speed Limit: 1-1000Mbps

1. Select port(s) for configuration. The parameters of the latest selected port will be displayed below.

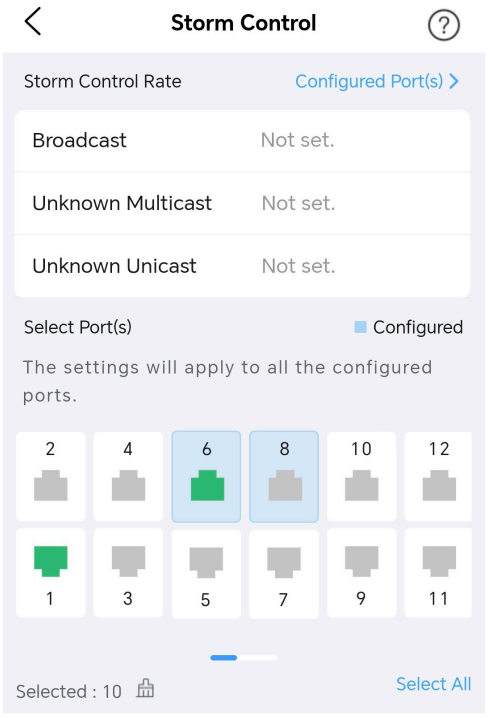


2. Set the ingress and egress speed limits. Leaving blank means no speed limit.
3. Tap **OK** to enable speed limit automatically.

10.2.7 Storm Control

A broadcast/multicast/unicast storm occurs when broadcast/multicast/unicast frames (sent to all devices/specific group/specific device) are repeatedly sent, consuming bandwidth and potentially causing network paralysis.

Storm control is designed to prevent such occurrences.



Enable Storm Control

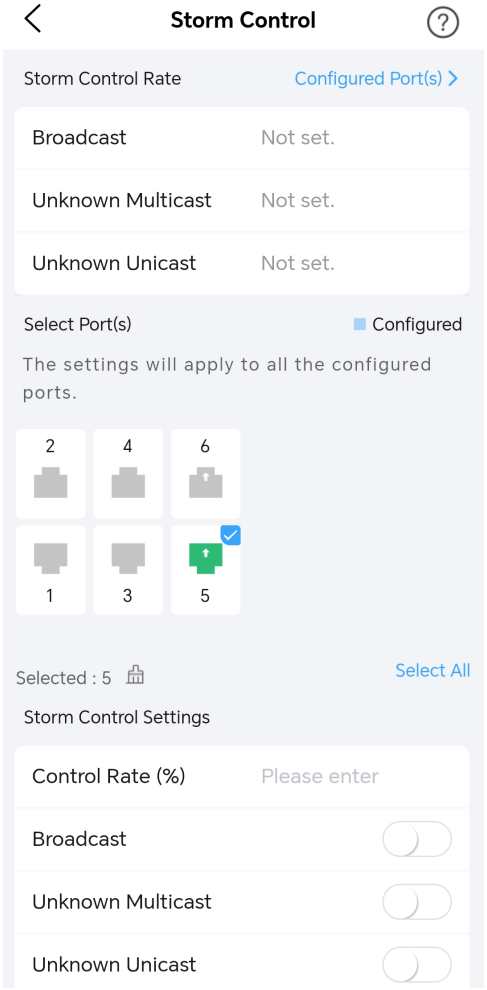
1. Select port(s) for configuration. The parameters of the latest selected port will be displayed below.

   Note: If you select/deselect a member port in an aggregation group, the other member port in the same group will also be selected/deselected.

2. Configure control parameters. All ports configured with storm control share the same parameters, with the latest updates taking precedence.

   The steps may vary with device models. Please refer to the actual screen.

   - Model 1: The broadcast, multicast, and unicast can only be configured with the same value, but each can be individually enabled or disabled.

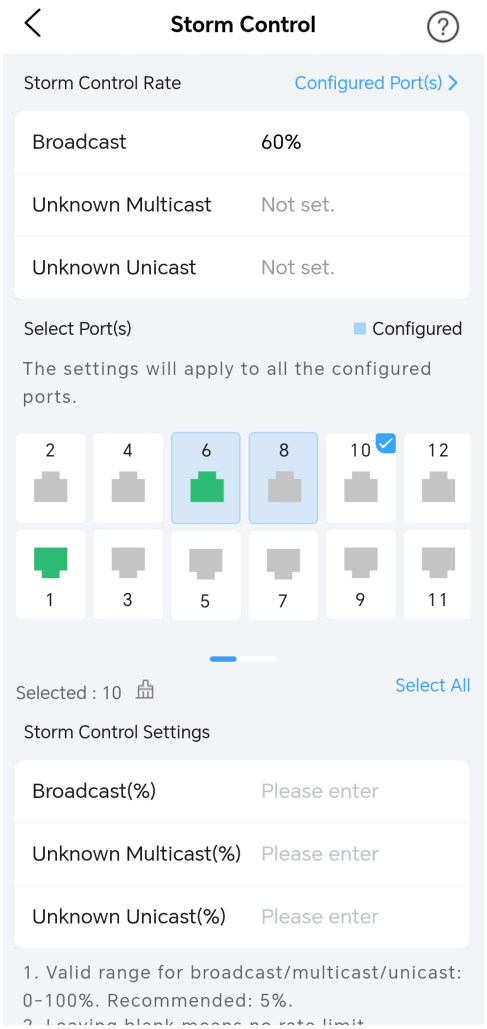


   (1) Select port(s) for configuration.

   (2) Set the control rate. The parameter applies to broadcast, multicast, and unicast simultaneously. Range: 0-100 (empty by default, indicating no rate limit).

   (3) Enable or disable broadcast, multicast, and unicast as needed.

   - Model 2: The values for broadcast, multicast, and unicast can be configured independently.



(1) Select port(s) for configuration.

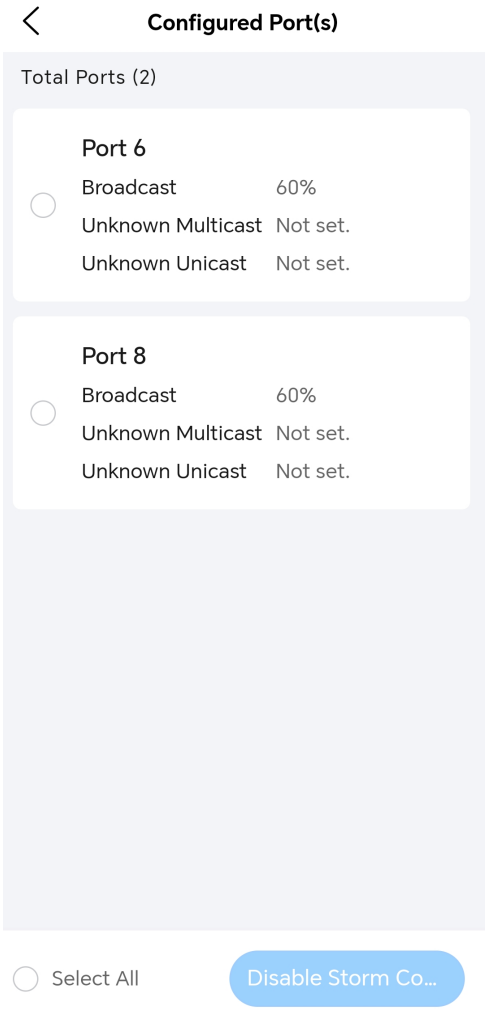
(2) Set the transmission rate for broadcast, multicast, and unicast. Range: 0-100 (empty by default, indicating no rate limit).

3. Tap **OK** to enable storm control automatically.

Manage Storm Control

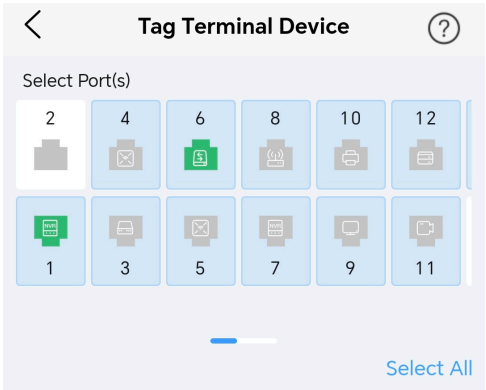
Tap **Configured Port(s)** to view all ports with storm control enabled and the corresponding parameters.

Select port(s), tap **Disable Storm Control**, and confirm the operation to disable storm control.



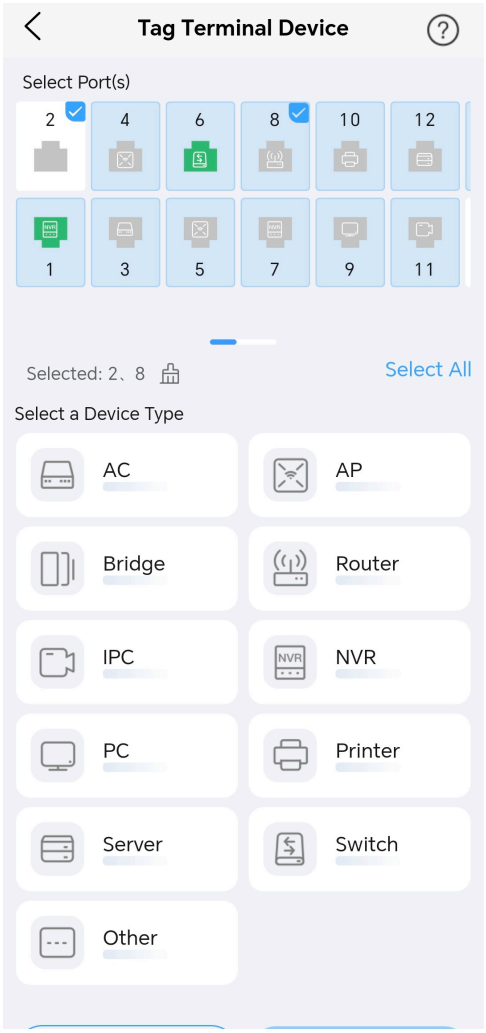
10.2.8 Tag Terminal Device

Tag the device type connected to each port. Once tagged, the device type will be displayed in port details.



1. Select port(s) for configuration. The parameters of the latest selected port will be displayed below.

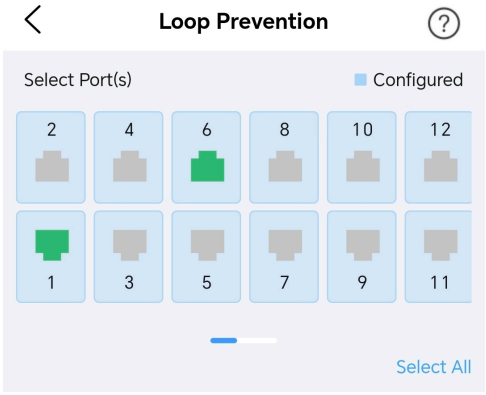
Note: If you select/deselect a member port in an aggregation group, the other member port in the same group will also be selected/deselected.



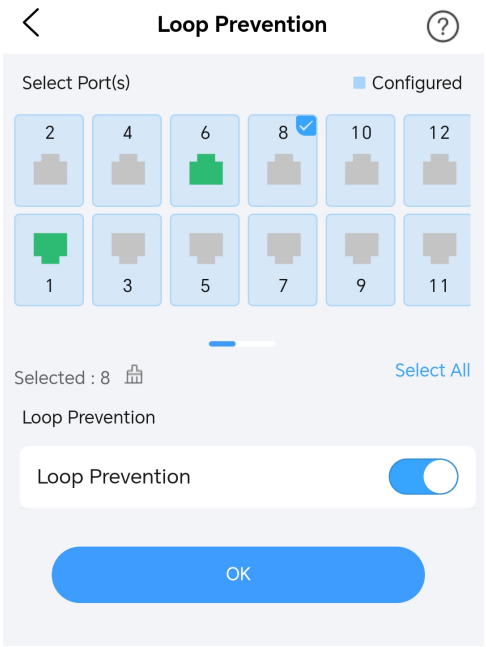
2. Select a device type.
3. Tap **OK** to tag the device type, and the port icon will be updated accordingly; tap **Deselect** to cancel the tag.

10.2.9 Loop Prevention

A loop occurs when data packets continuously circulate in the network without reaching their intended destination, leading to a significant decline in network performance and potential network crashes.



1. Select port(s) for configuration. The loop prevention status of the latest selected port will be displayed below.

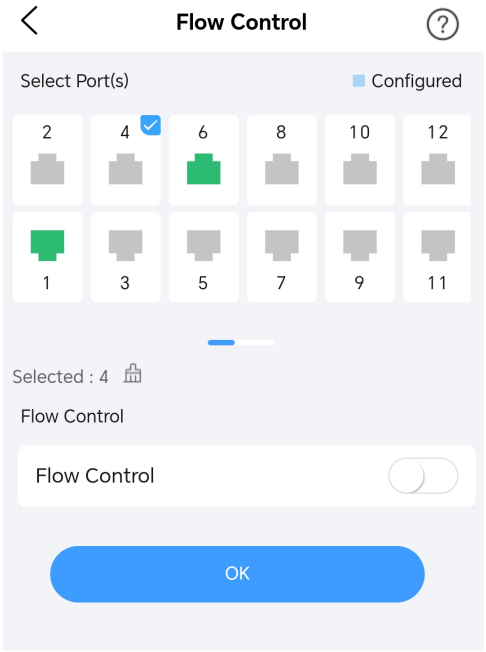


2. Tap to enable loop prevention; tap again to disable.
3. Tap **OK**. Once enabled, if a loop is detected, an icon ( ) will be displayed in the upper-left-corner of the port.

10.2.10 Flow Control

By regulating the transmission rate of data packets, flow control prevents the congestion between the sending and receiving ends.

1. Select port(s) for configuration. The flow control status of the latest selected port will be displayed below.



2. Tap to enable flow control; tap again to disable.
3. Tap **OK**.

10.2.11 Port Isolation

Add downlink ports to an isolation group to restrict the communication, thereby enhancing network security and performance.

Note: If there are member ports within the switch, this function cannot be enabled/disabled.

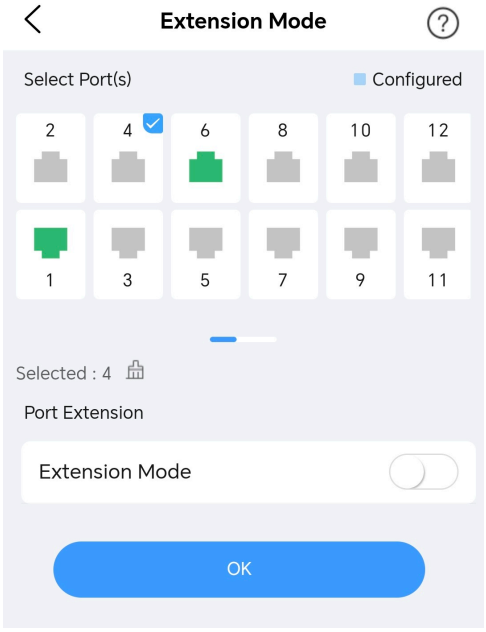
Tap to enable port isolation. When enabled, downlink ports cannot communicate with each other. Only the communication between downlink ports and uplink ports is allowed.

10.2.12 Extension Mode

Enhanced support for long-distance transmission requirements.

When enabled, the port speed will switch to 10M and the duplex mode will switch to auto-negotiation. These settings cannot be edited.

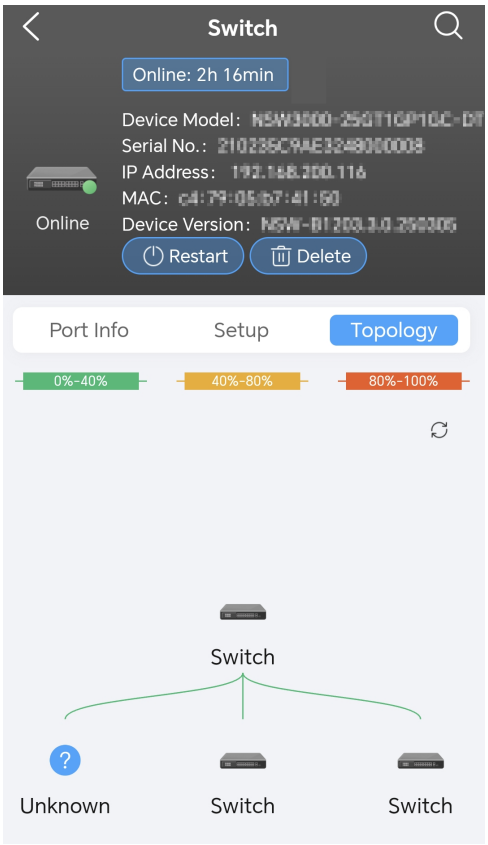
1. Select port(s) for configuration. The extension mode of the latest selected port will be displayed below.



2. Tap to enable extension mode; tap again to disable.
3. Tap **OK**. This operation may take a long time to process the device response. Please refresh the page and re-select the port to check if the configuration is effective.

10.3 Device Topology

View the connected devices of each port in topology.



- Gesture operations: Pinch open/closed to zoom in/out on the topology; move the topology position using one finger.
- Tap in the upper right corner to refresh the topology.

11 Message

On the **Projects** tab, tap in the upper-right corner to enter.

Alarm Message

Tap and set date, device name, and device type as filter criteria as needed to filter alarms.

Tap on a message to view details.

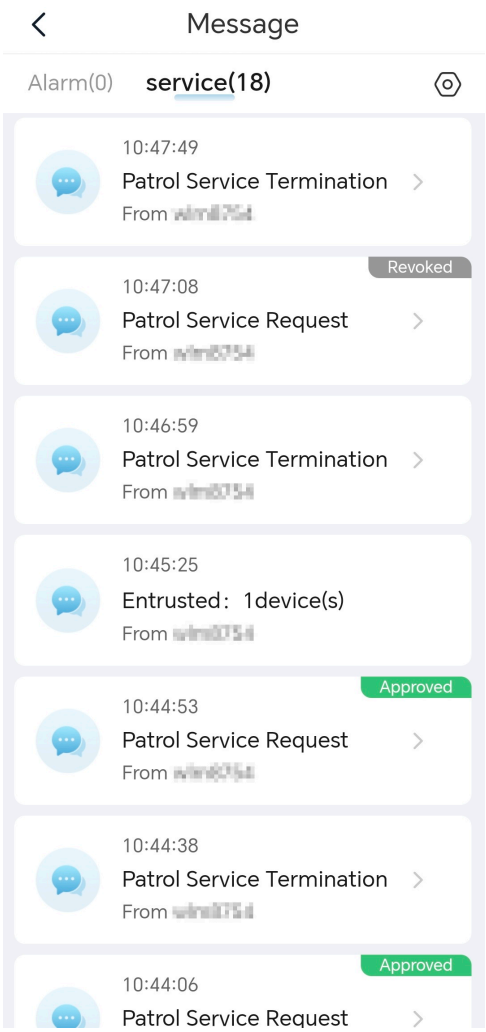
Service Message

- For patrol service providers: End users of the UNV-Link User app can share their devices with a patrol service provider. When an alarm is triggered on a device, the provider can access the device's live video, recording, and alarm message via UNV-Link Pro Tools, facilitating a swift response to alarm events.
  - Service Request: The end user must first submit a patrol service request. The patrol service provider can then review this request and either approve or decline it here.

    The end user can manually disable or enable (default setting) the service as needed. The provider will gain permissions only when the service is enabled by the end user and is within the validity period.
  - Extension Request: If the patrol service is active and has not expired, the end user can submit an extension request. The service will be extended after the provider approves the request.
- For O&M service providers: End users of the UNV-Link User app can share their devices with an O&M service provider if they need after-sales support for their devices. Service messages are displayed here. The provider can handle device faults and configure devices within the validity period.

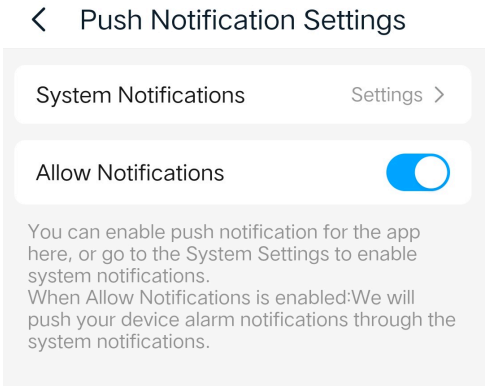
Tap on a message to view details.

Note: O&M service messages remain valid for 30 days, after which they will be deleted automatically.

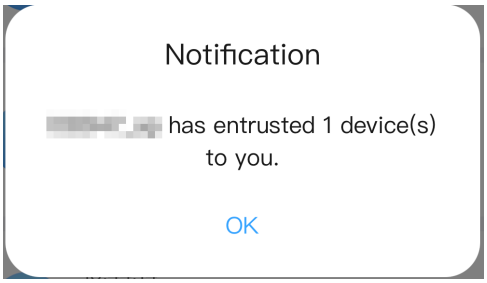


Push Notification Settings

Tap > **Push Notification Settings**. There is a portal to go to System Settings to set push notification. You can also toggle **Allow Notifications** switch on/off to enable/disable app's push notification.



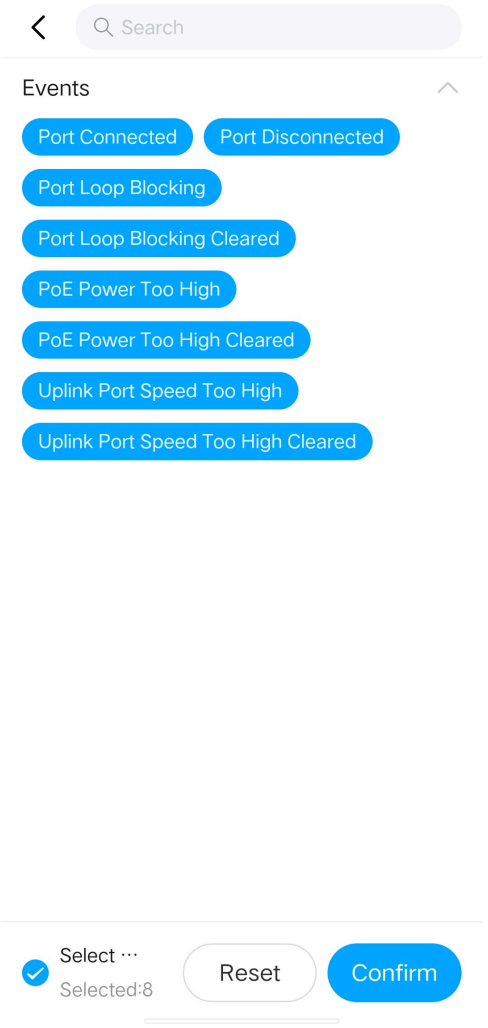
- When the app is active: New messages will appear in a pop-up window.



- When the app is closed or running in the background: New messages will be pushed via system notifications.

Notification Type

Tap > **Notification Type**. Select alarm type(s) and service type to push as needed and then save.



12 Me

12.1 Set

12.1.1 My Profile

On the **Me** screen, tap on the user information on the top or go to **Me** > **Set** > **My Profile**.

Set profile photo

1. Tap on the profile photo. Choose a method to upload the photo.

- Take a photo

  (1) Tap **Take a Photo**.

  (2) Tap  to take a photo.

  (3) Drag and resize the photo as needed to ensure the circular area covers the desired contents.

  (4) Tap  to save it or tap  to return to the previous step.

- Choose from album

  (1) Tap **Choose from Album** to choose a photo from album.

  (2) Drag and resize the photo as needed to ensure the circular area covers the desired contents.

  (3) Tap  to save it or tap  to return to the previous step.

Change username

Tap **Username**, enter the new username, and then tap **Save**.

Change email address

1. Tap **Email**.
2. Tap **Send Code**. Enter the received code, and then tap **Next**.
3. Enter the new email address, and then tap **Send Code**.
4. Enter the received code, and then tap **Complete**.

12.1.2 Account Security

Go to **Me** > **Set** > **Account Security**.

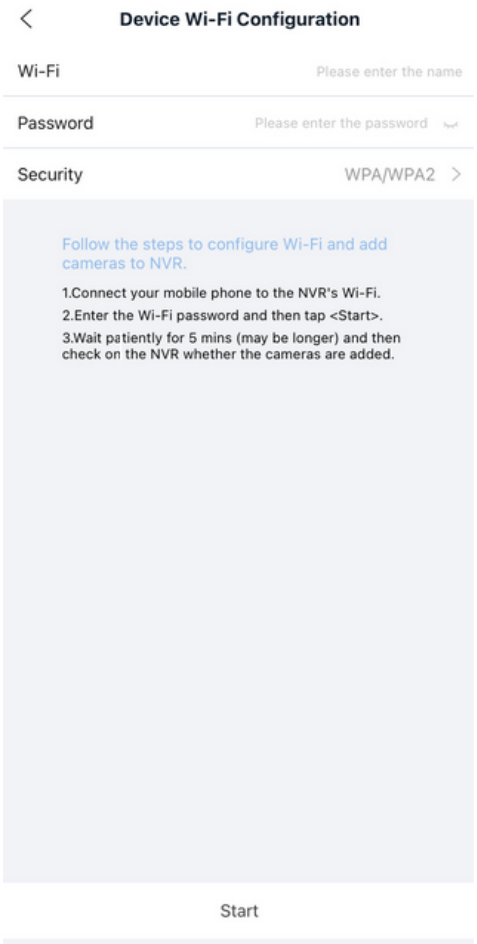
- Change password: Enter the old password, tap **Next**, enter the new password, and then tap **Complete**.
- Cancel account: Carefully read the terms and conditions, ensure all cancellation conditions are met, and then tap **Request to Cancel Account**.

  Note: Before cancellation, you must remove all teams you have created, unbind all devices associated with your account, and leave all teams you have joined in.

- Two-factor authentication: When enabled, the system evaluates the risk level of your login. If necessary, a verification code will be sent to your registered email. Enter the verification code to log in.

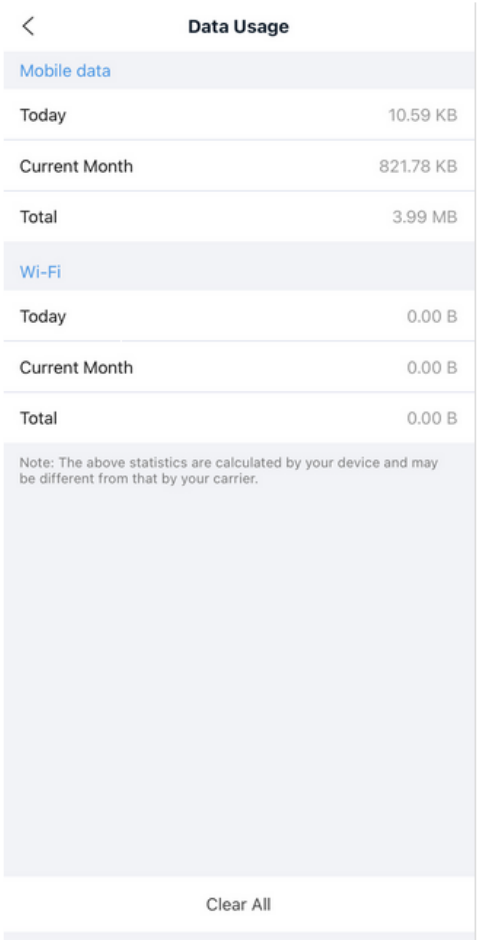
12.1.3 General

1. Go to **Me** > **Set** > **General**.
2. Refer to the following descriptions to adjust the general settings.
   - Push Notification Settings: Enable app's notification push function.
   - Use Device Time Zone: When enabled, alarms and recordings will use the device's time. When disabled, alarms and recordings will use the mobile phone's time.
   - Temperature Unit: Supports Celsius (℃) and Fahrenheit (℉) modes.
   - Password Protection: When the screen is off or you exit the app, a password is required to re-open it. Supports None, PIN, and Pattern passwords.
   - Optimize Video Fluency: When enabled, video is smoother but may be delayed. When disabled, delay is shorter but video may be shuttering.
   - Pause Video Automatically: When enabled, video will be paused automatically after a certain period inactivity. When disabled, video will not be paused automatically.
   - Device Wi-Fi Configuration: Add a camera to an NVR by connecting the camera to the NVR's Wi-Fi network.



Note: This function is available to certain IPC and NVR models.

- Data Usage: View the app's data usage, including mobile data and Wi-Fi data, displayed by day, month, and total. You can also tap **Clear All** to reset the current statistics and start counting again.



12.1.4 Privacy Service

Go to **Me** > **Set** > **Privacy Service**.

View privacy policy.

12.1.5 About

Go to **Me** > **Set** > **About**.

View the app's version information, service agreement, and open source software licenses.

12.2 Tools

12.2.1 Remote Troubleshooting

Generate an authorization code to authorize our engineers to access the devices under your account for troubleshooting.

Generate Authorization Code

1. Tap **Me** > **Remote Troubleshooting**.
2. Read and agree to the Authorization Code Agreement.
3. Tap **Generate Code**.
4. Set the validity period for the authorization code.
5. Tap **Copy** and send the copied authorization code to our engineer.

Withdraw Authorization Code

1. Tap **Me** > **Remote Troubleshooting**.

2. Tap **Revoke** and confirm the revocation in the pop-up window to invalidate the authorization code.

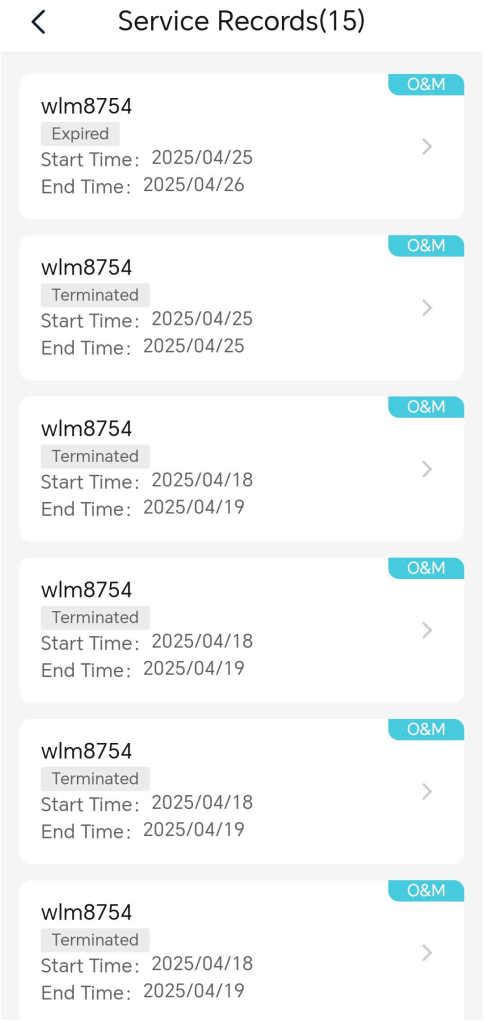
Extend Authorization Code Validity

1. Tap **Me** > **Remote Troubleshooting**.
2. Tap **Extend Validity** and select the validity period for the authorization code as needed.

12.2.2 Service Records

Tap **Me > Service Records**.

You can view all service records here, and click any one to see detailed information.



12.2.3 Co-Branding

If the login account is an O&M/patrol service provider account, you can upload your company's brand logo.

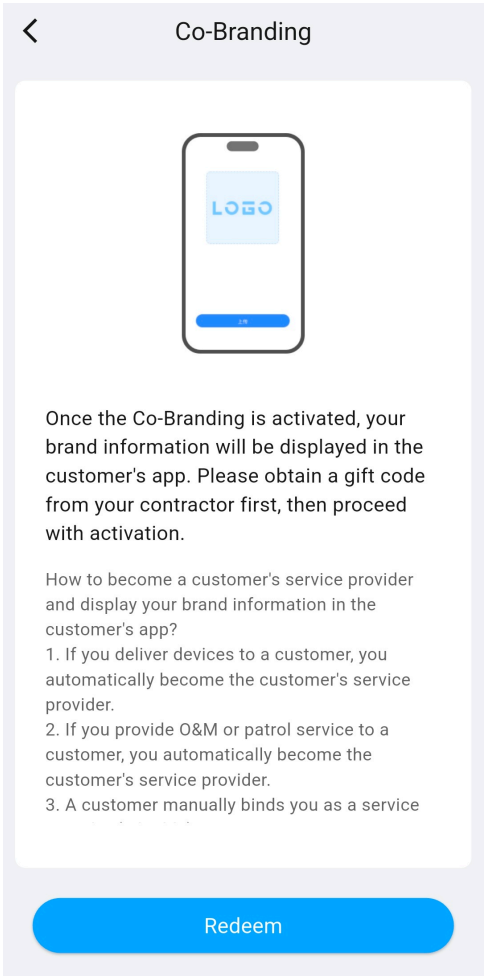
Within the co-branding period, if there are O&M, patrol, or other services between UNV-Link User and UNV-Link Pro Tools users, the logo will be displayed on the launch screen of UNV-Link User starting from the second time the user exits the app from the background and reopens it.

For first-time use, please follow the steps to Activate Co-Branding→Upload Logo.

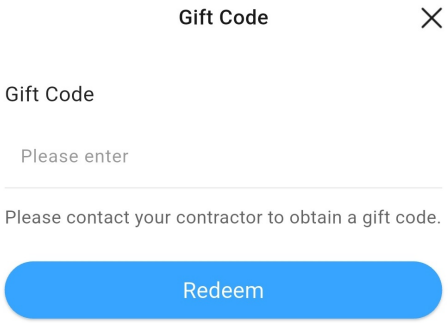
Activate Co-Branding

This function needs to be activated first and can only be used within the valid period after activation; if it has expired but still needs to be used, it must be redeemed again.

1. Tap **Me > Co-Branding**.



2. Tap **Redeem**, input the gift code (obtained from your local reseller), and then tap **Redeem** again.



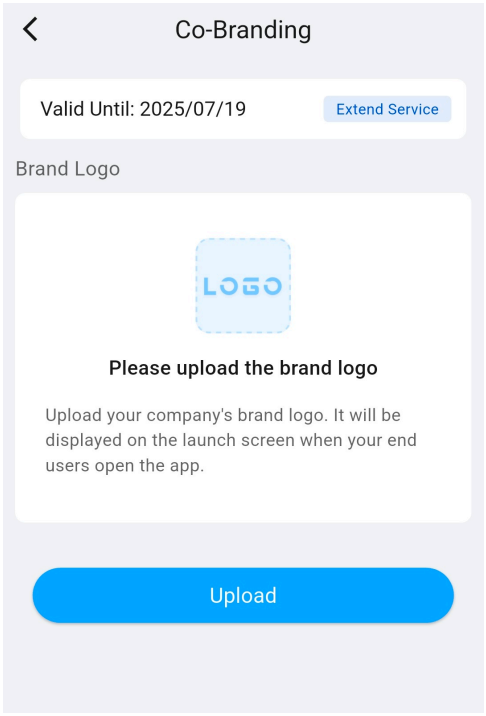
After redemption, co-branding becomes effective immediately, and the expiration date is displayed at the top of the screen. The co-branding period can be extended (see Extend Co-Branding Period).

Extend Co-Branding Period

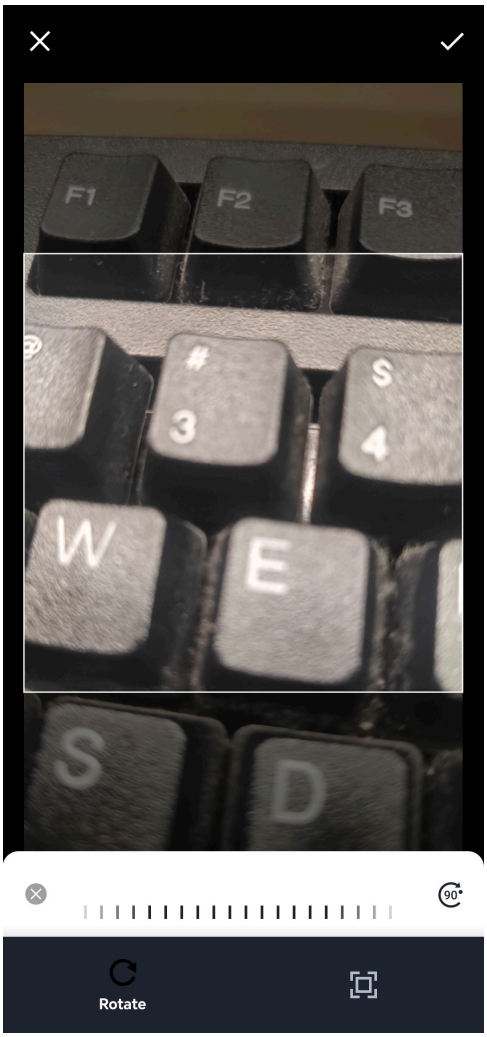
When the expiration date is approaching, reached, or expired, if you wish to continue using this feature, tap **Extend Service** and redeem the gift code again to extend the co-branding period.

Upload Logo

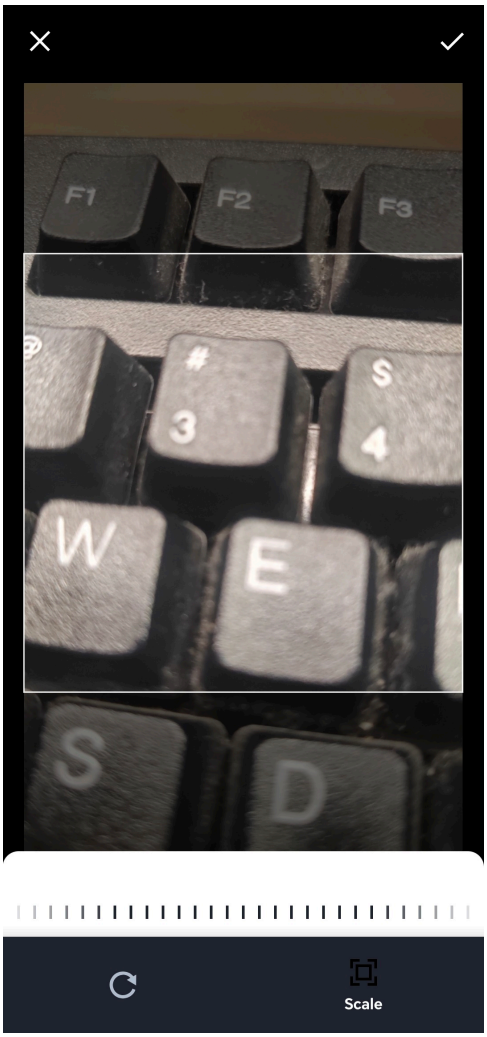
1. Go to **Me** > **Co-Branding**.



2. Tap **Upload**.
3. Choose to either take a photo or select an image from your album.
4. Edit the image. Contents within the white frame will be displayed.
   - Move: Drag the image to adjust its position (in any tab).
   - Rotate: Go to the **Rotate** tab. Use the slider for fine rotation; tap 90° to rotate the image 90° clockwise; tap ⊗ to restore the image to the initial status.



- Scale: Go to the **Scale** tab. Pinch open or closed with two fingers or use the slider to zoom in or out.



5. Tap ✓ to save the settings. You can also tap ✗ to discard the settings.

Save Logo

Once set, tap **Me** > **Co-Branding**, and then tap **Download** to save the image locally.

Delete Logo

Once set, you can tap **Delete** to delete the image.

Re-upload Logo

Once set, you can tap **Re-upload** to upload a new logo. See Upload Logo.

12.3 Help & Service

12.3.1 User Manual

Go to **Me** > **Help & Service** > **User Manual**.

View functions and operating instructions of the app.

12.3.2 Device Manual

Go to **Me** > **Help & Service** > **Device Manual**.

View quick start guides (installation instructions) and user manuals (configuration guidances) for products.

12.3.3 Feedback

Go to **Me** > **Help & Service** > **Feedback**.

Enter the issue description and your contact information, then submit your request. Our technical support team will review and address your issue.

12.3.4 Tutorial

Go to **Me** > **Help & Service** > **Tutorial**.

View the beginner guide video to help you get started quickly.

12.3.5 Contact Us

Go to **Me** > **Help & Service** > **Contact Us**.

View the service email addresses for different regions and contact us by sending an email.