UNV-Link Pro

User Manual

V1.07

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Introduction

UNV-Link Pro (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.

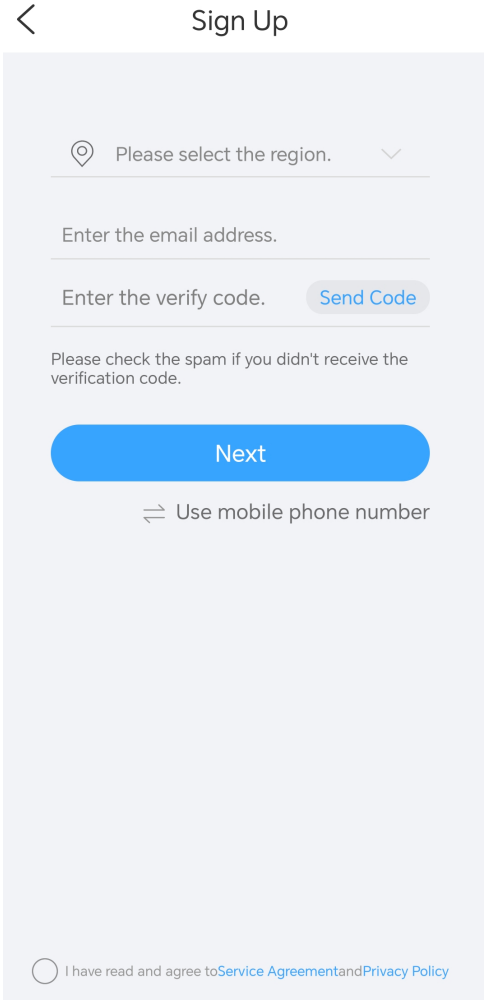
Project List

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.

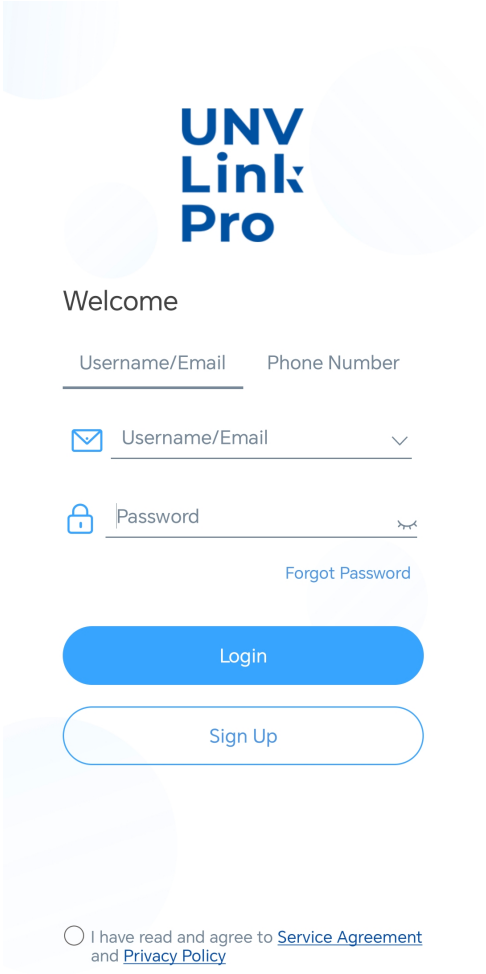


2. Read the service agreement and privacy policy, and then select the radio button.
3. Choose to sign up with an e-mail or a mobile phone number (only some regions support mobile phone number sign-up).
4. Select the account region.
5. Enter your email address or mobile phone number, and then tap **Send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



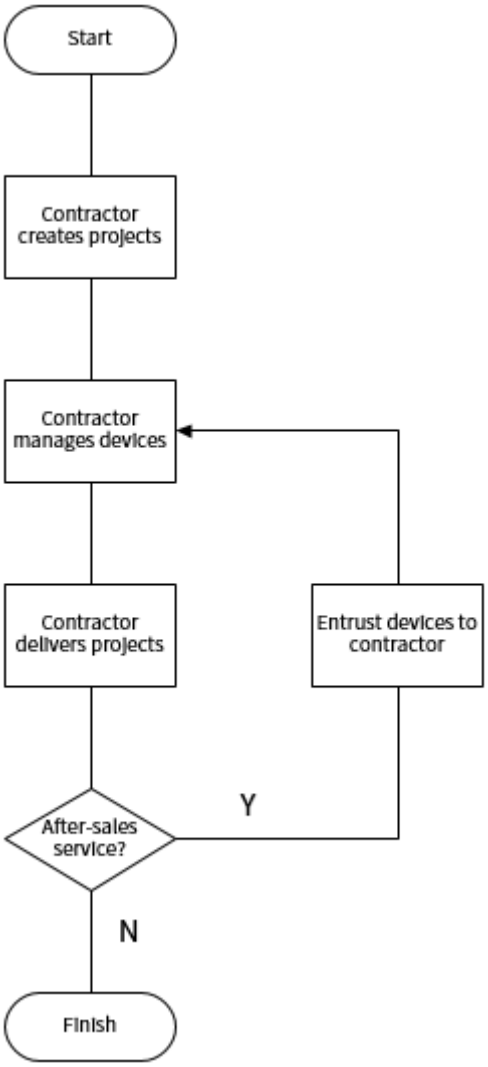
Note: If you forget your password, tap **Forgot Password**. A verification code will be sent to the email or mobile phone number you have registered, and then use the received code to reset the password.

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 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.

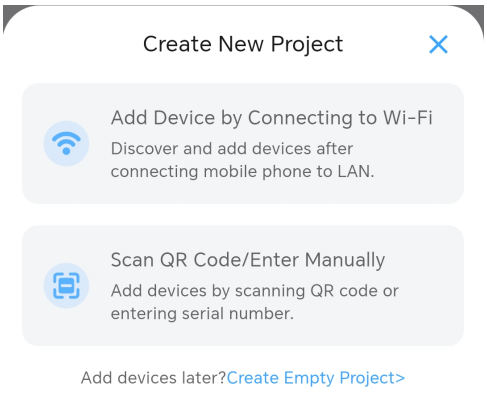


Flowchart	Description
Contractor creates projects	The contractor creates different projects for different end users. See Create Project.
Contractor manage devices	The contractor installs and configure new devices or entrusted devices. See Device Configuration.
Contractor delivers projects	After completing 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 Manual* for more information.

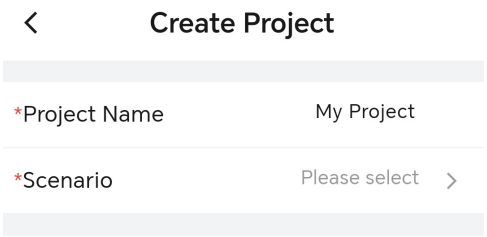
4.1 Create Project

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.

4.2.1.1 IPC/NVR/Switch

The NVRs described in this section refer only to NVRs connected to network via network cable.

Choose a way to add the device:

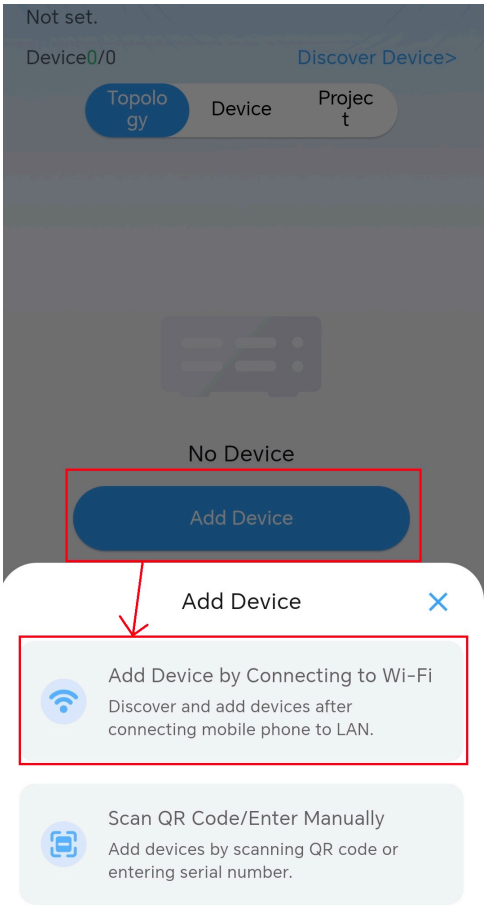
Note: Switches can only be added by scanning QR code.

- Auto Search on the 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).

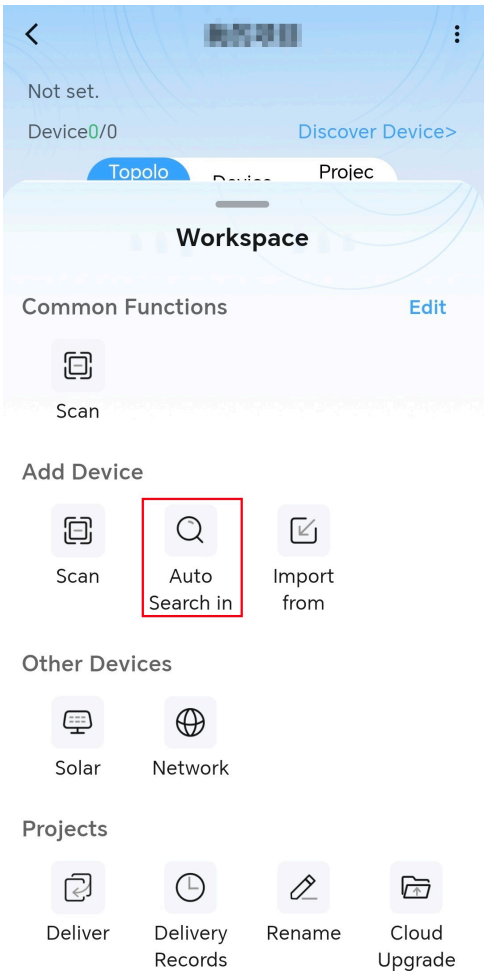
Auto Search in LAN

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 Device>** 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**.

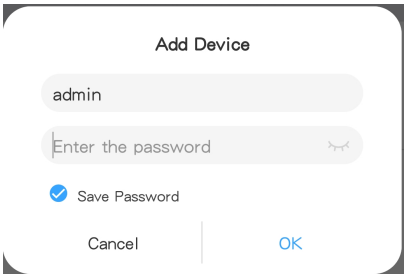


- Swipe up on the workspace, and then tap **Auto Search** in under **Add Device**.



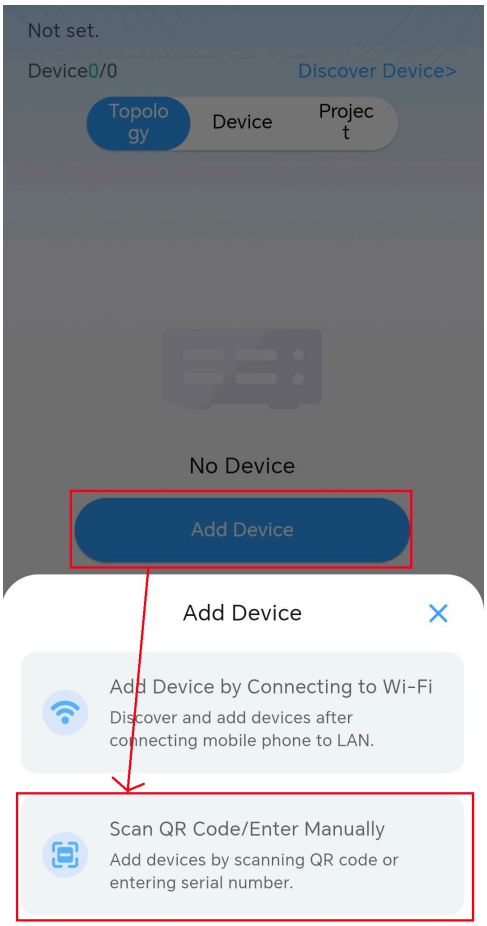
3. The app will automatically detect devices connected to the current Wi-Fi network and display them in a list. Select the device(s) to be added and then tap **Add**.

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

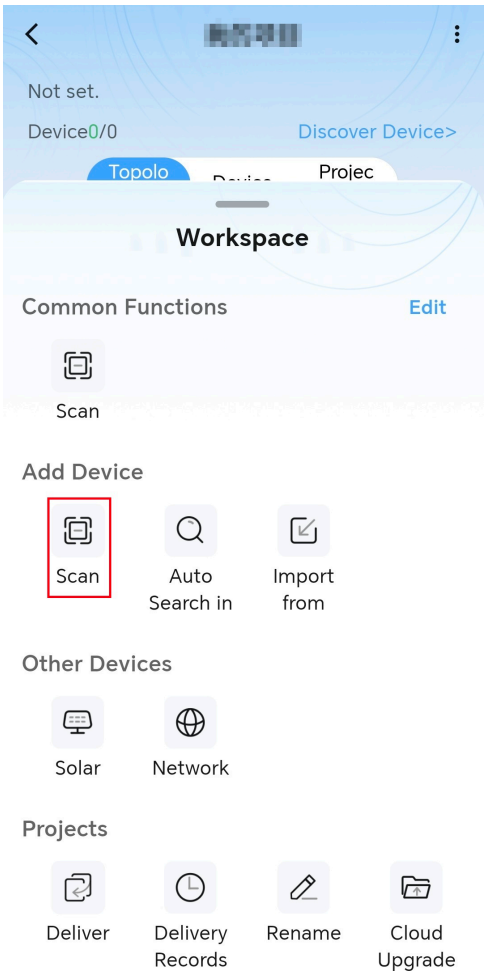


Scan QR Code

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 in the center of the screen, and then select **Scan QR Code/ Enter Manually**.

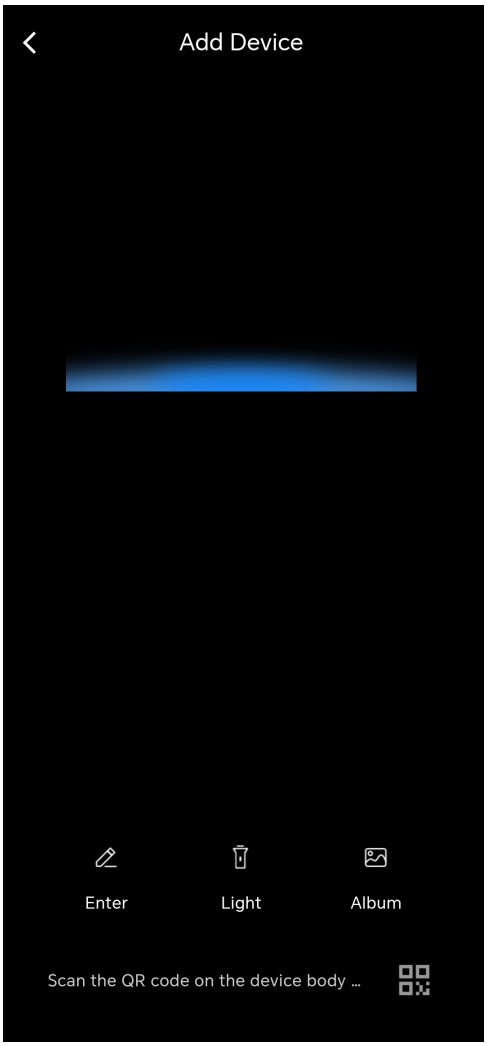


- Swipe up on the workspace, and then tap **Scan** under **Add Device**.

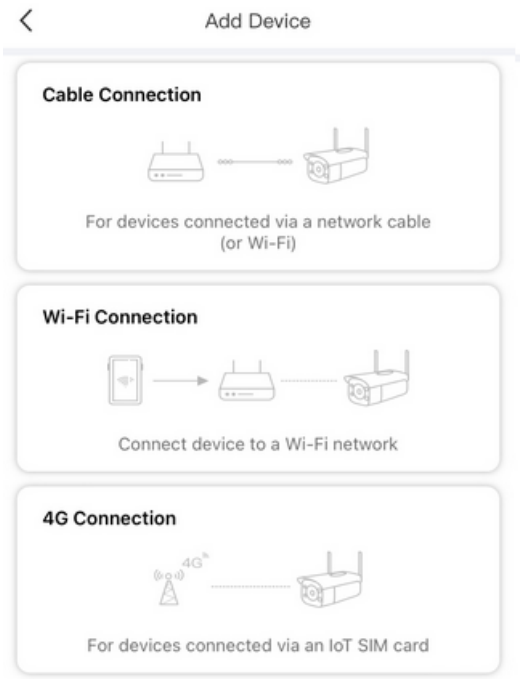


3. Scan the QR code on the device body or a local image. To scan a local image, tap  to open your local album, and then choose the image to scan.

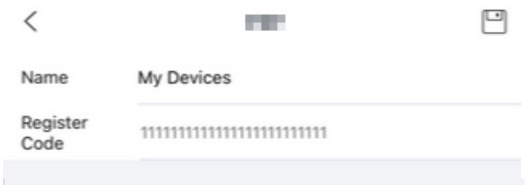
Note: To enter the device register code manually, tap  in the lower left corner, enter the code, and then confirm.



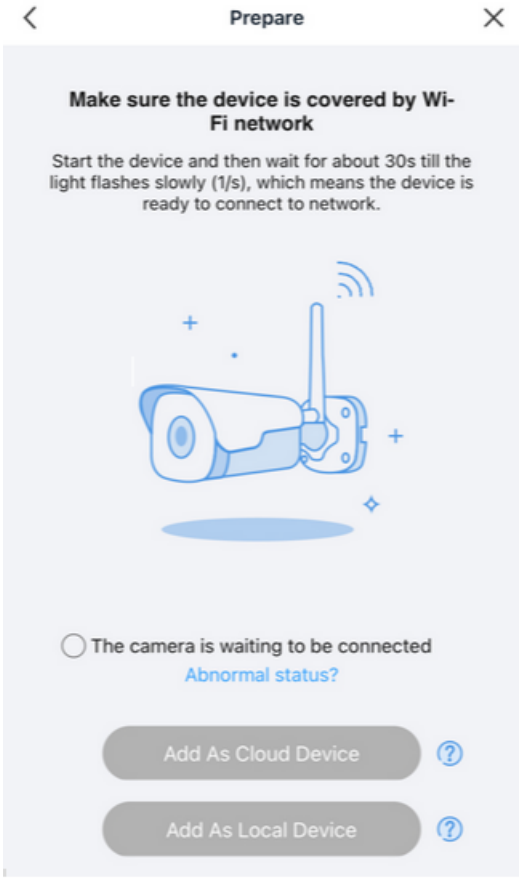
4. Choose a networking mode for the device. (If the device can recognize the networking mode, this step will be skipped.)



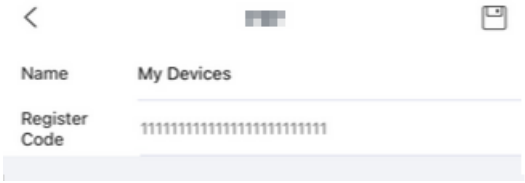
- Cable connection: Check the device name and register code, and then tap in the top right corner to complete adding the device.



- Wi-Fi connection: Place the device in a Wi-Fi environment, and then follow the instructions in the app to add the device.

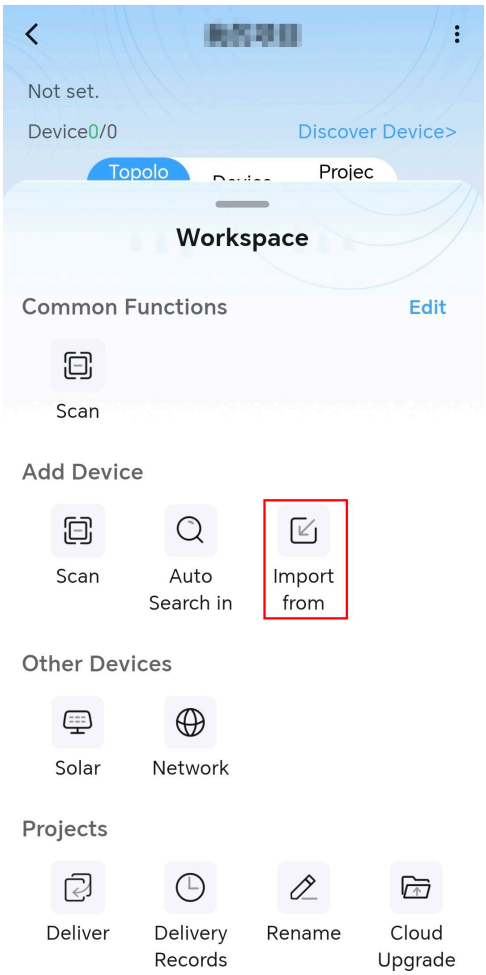


- 4G connection: Check the device name and register code, and then tap in the top right corner to save the settings.



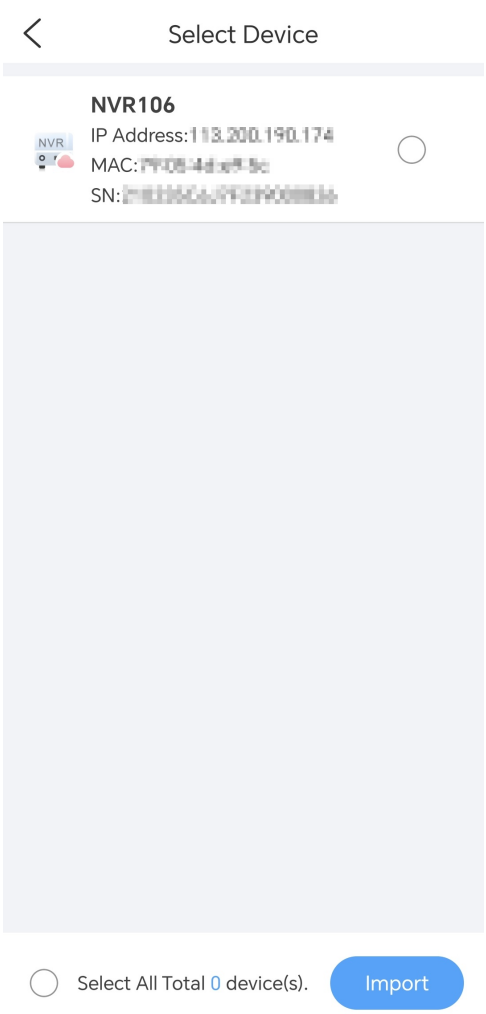
Import from other Projects

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).

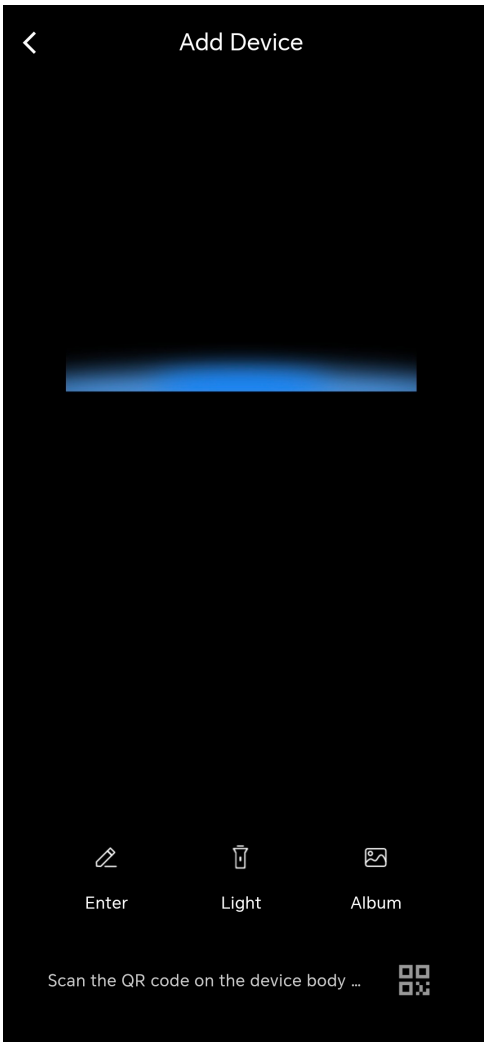
4.2.1.2 Wi-Fi NVR

Wi-Fi NVRs can be added by scanning QR code.

When adding, please connect your mobile phone to the same Wi-Fi as the device and place your mobile phone as close to the device as possible.

Scan QR Code

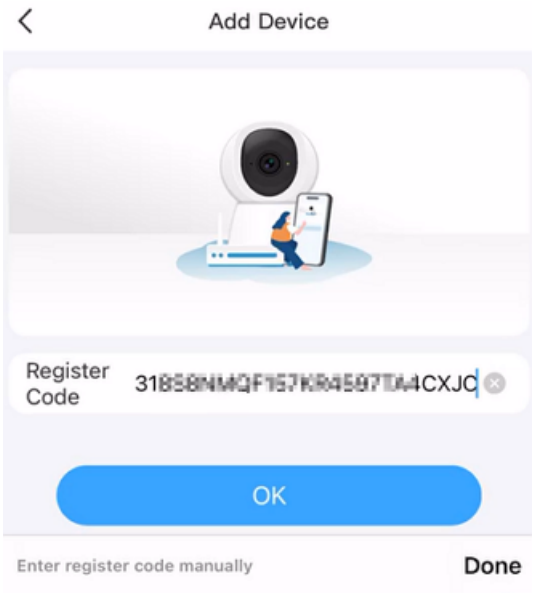
1. Scan the QR code to add the device. Please refer to Scan QR Code.
2. Choose **Scan QR Code**.



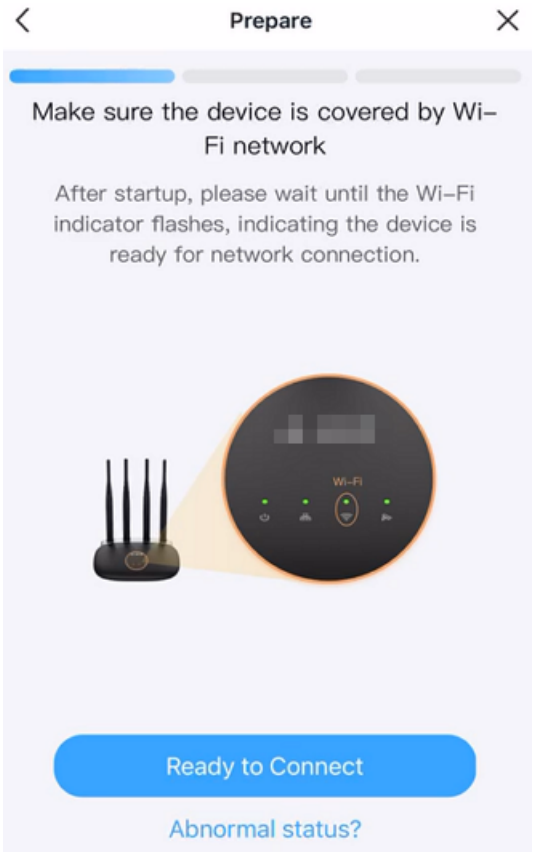
3. Scan the QR code on the device body or a local image. To scan a local image, tap  to open your local album, and then choose the image to scan.

Note:

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

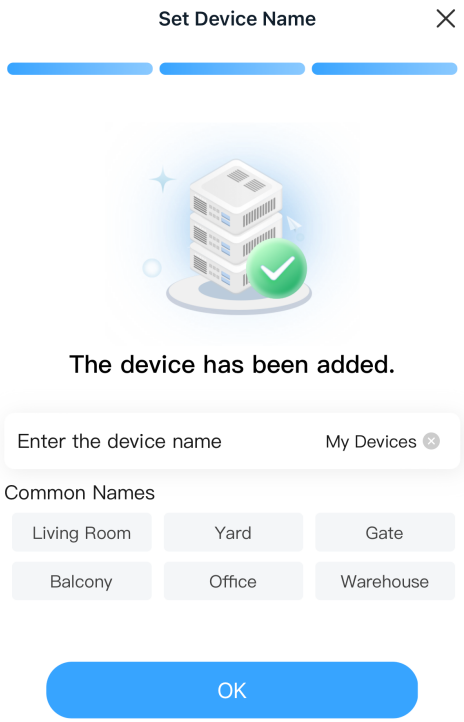


4. After the NVR is started up, wait until the Wi-Fi indicator flashes, and then tap **Ready to Connect**. (If the device status is abnormal, please try to restart the device by long pressing the reset button for about 3s.)



5. Check the Wi-Fi to be connected to the NVR, enter the Wi-Fi password, and then tap **Connect Automatically**.

6. Wait for the device to connect to the app. A success message will appear on the screen when the device has been successfully added. Enter the device name or choose a recommended name. Tap **OK** to finish.



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.

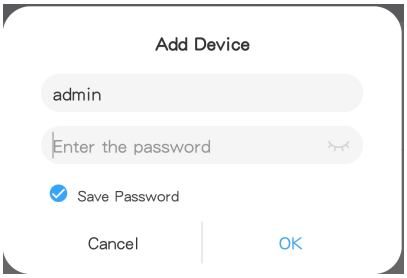
Note:

- 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

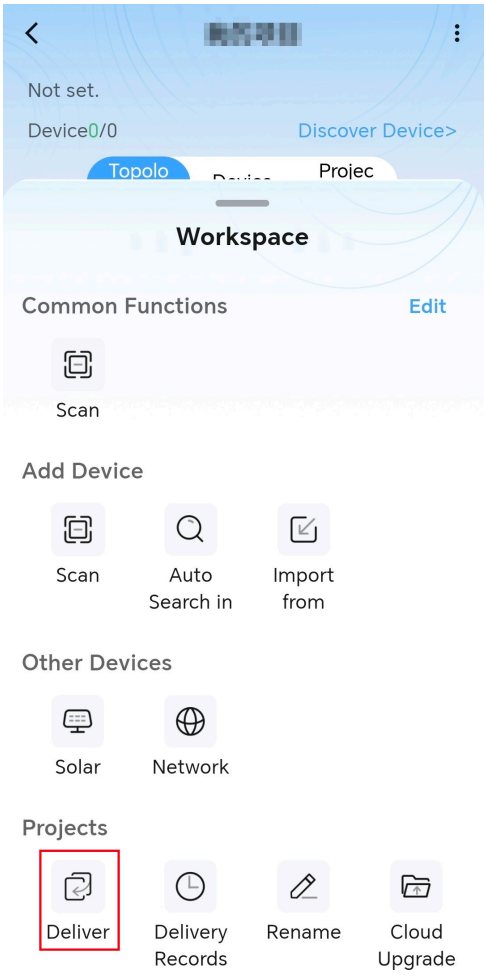
Contractors deliver one or multiple devices to end users after completing the service.

Note:

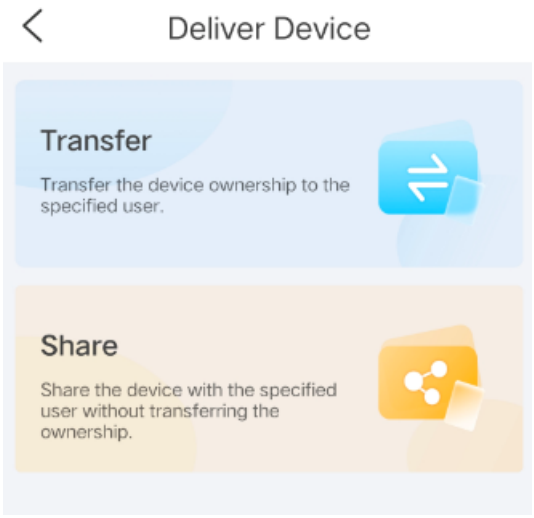
- The app only supports deliver projects by device (not by channel). If the delivered device is an NVR, all channels under the NVR will be delivered.
- Make sure the recipient has completed sign-up on the UNV-Link app.

Batch Delivery

1. On the **Projects** tab, tap the name of the target project. The project details are displayed.
2. Swipe up on the workspace, and then tap **Deliver** under **Projects**.

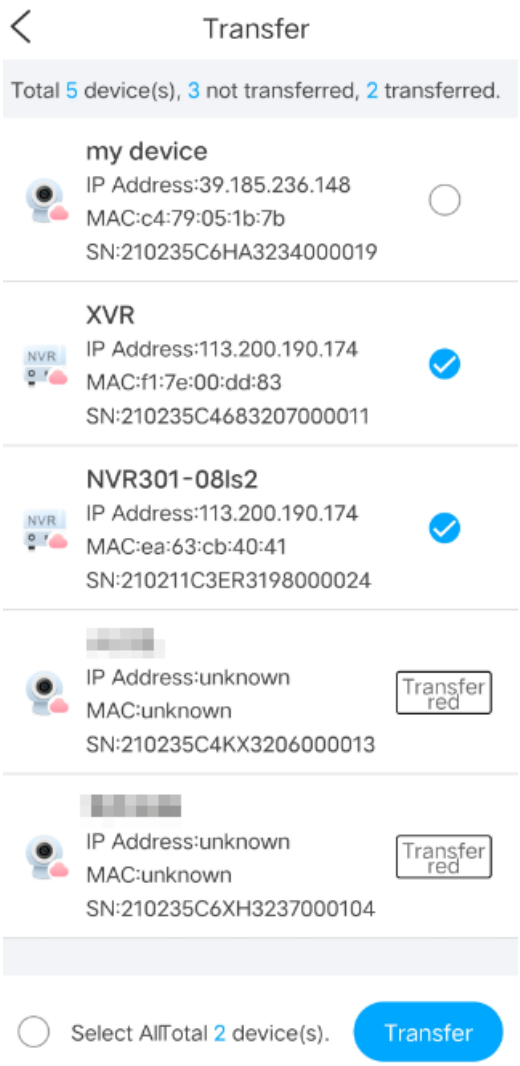


3. Choose a delivery method: Transfer or Share.

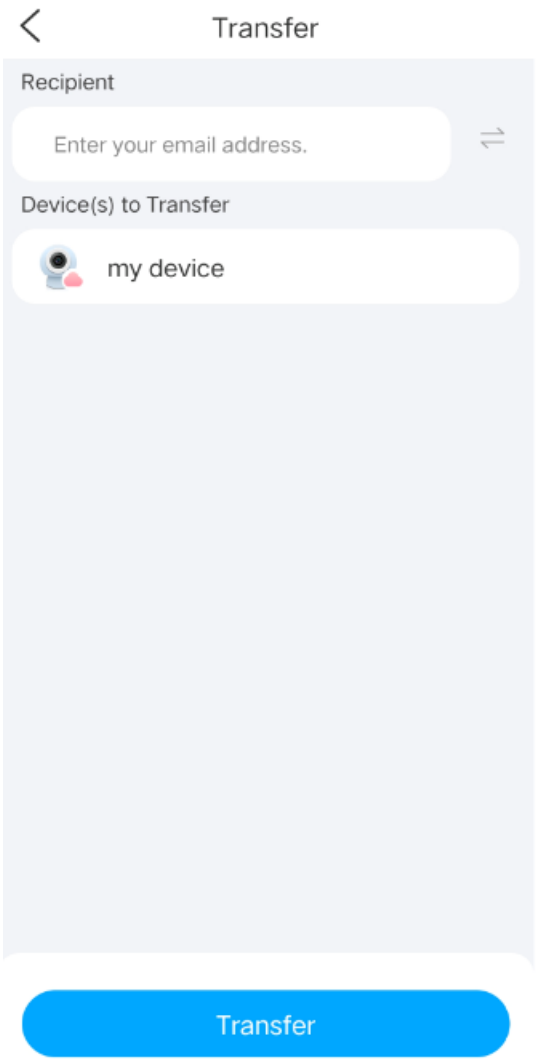


- Transfer:

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



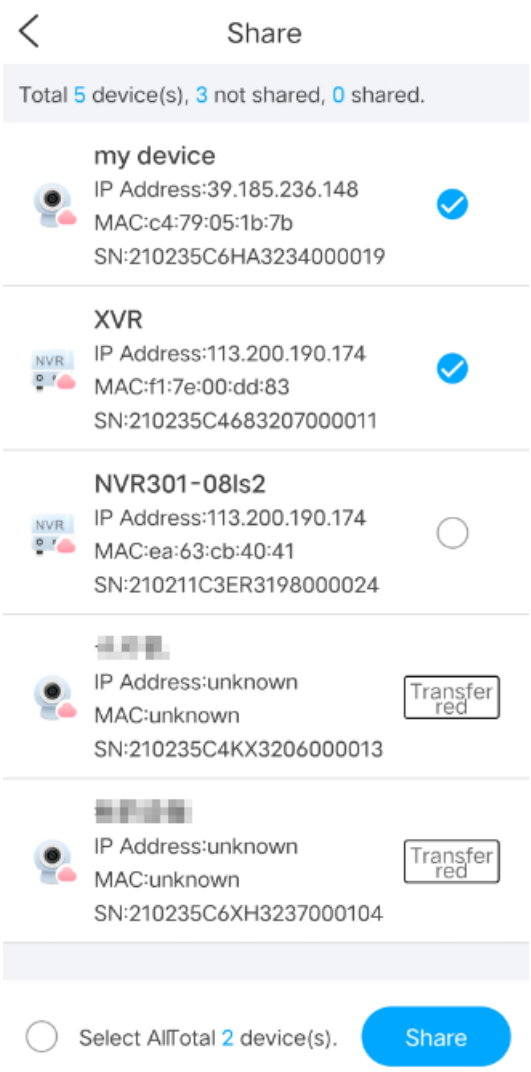
(2) Enter the recipient's email address or mobile phone number. You can tap ⇄ to switch the input mode.



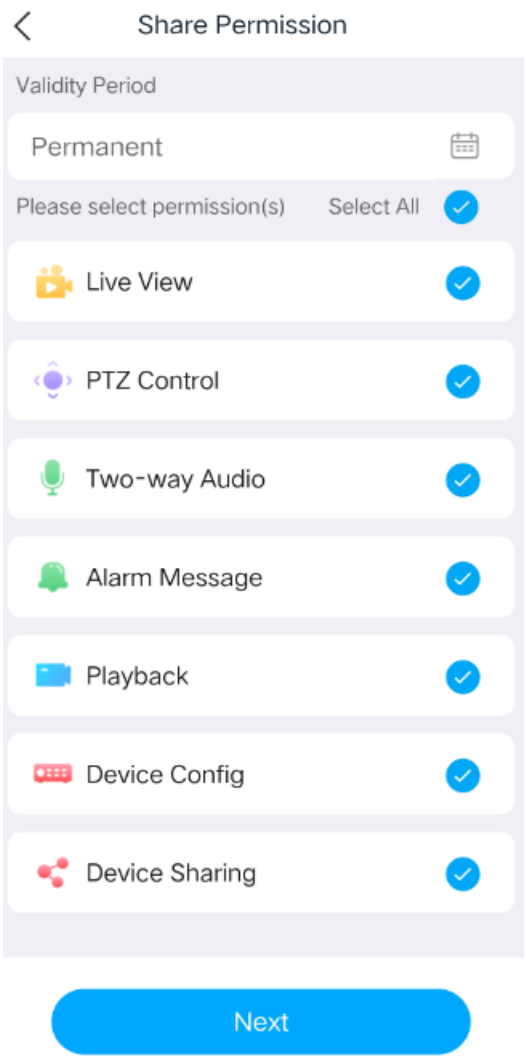
(3) Tap **Transfer**.

- Share:

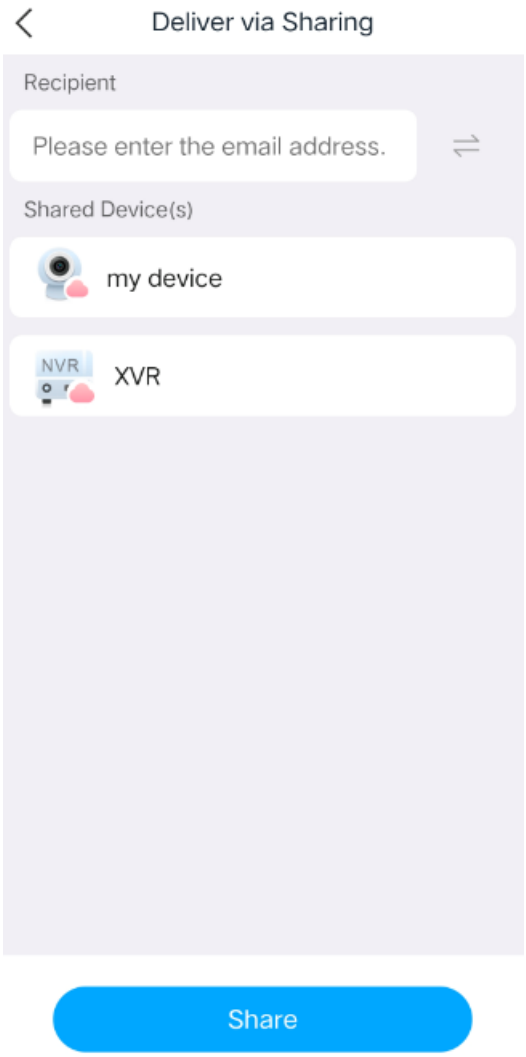
  (1) Choose the devices you want to deliver in the project. Tap **Share**.



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



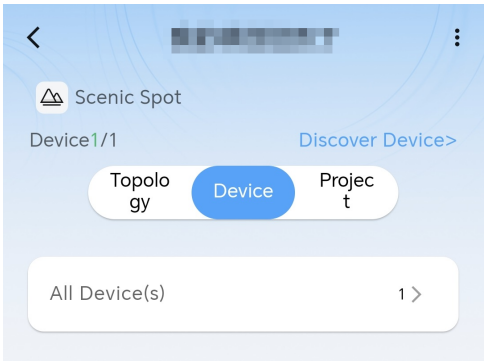
(3) Enter the recipient's email address or mobile phone number. You can tap ⇌ to switch the input mode.



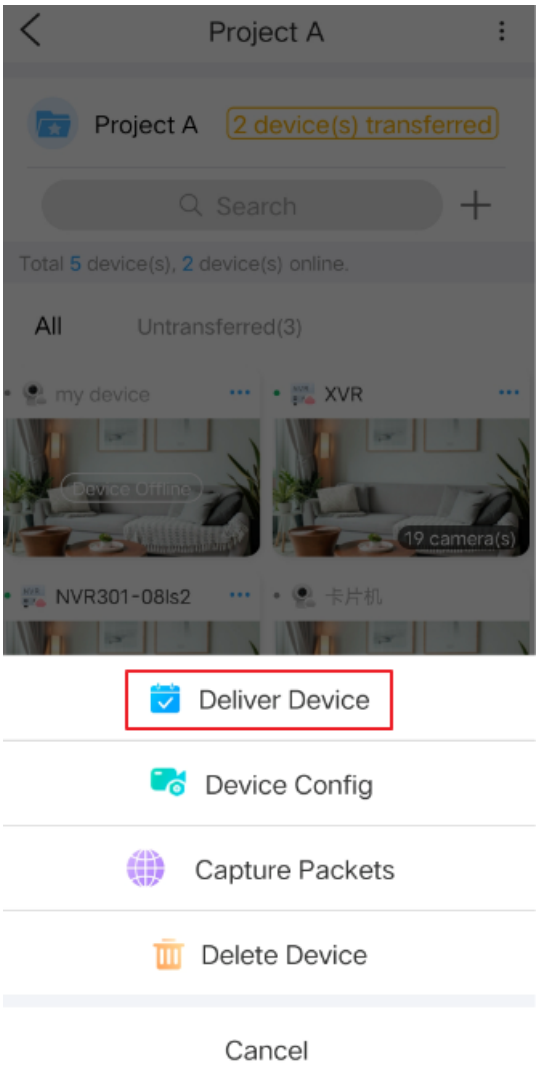
(4) Tap **Share**.

Deliver One by One

1. On the **Device** page, tap the name of the target project. The project details are displayed.
2. Switch to the **Device** tab, and then tap **All Device(s)**.



3. Tap ••• behind the name of the device to deliver, and then choose **Deliver Device**.



4. Follow operations in step.

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

6 Batch Config

6.1 Network Config

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 Config

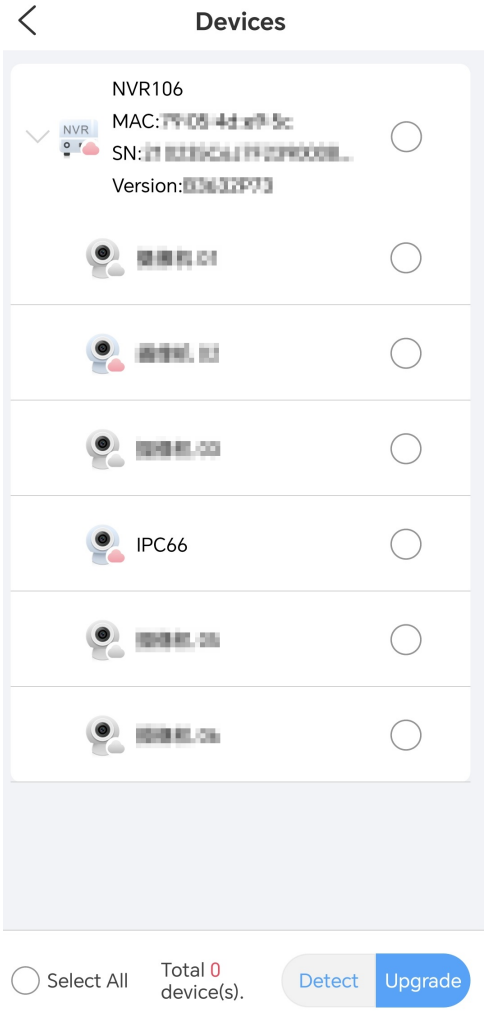
When the mobile phone connects to Wi-Fi, the app can automatically search for devices and channels on the same LAN. You can configure video parameters for them.

6.3 Cloud Upgarde

Upgrade devices in batches remotely.

1. Go to **Batch Config** > **Cloud Upgarde**.

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.

7 Reset Password

Reset the password of a device.

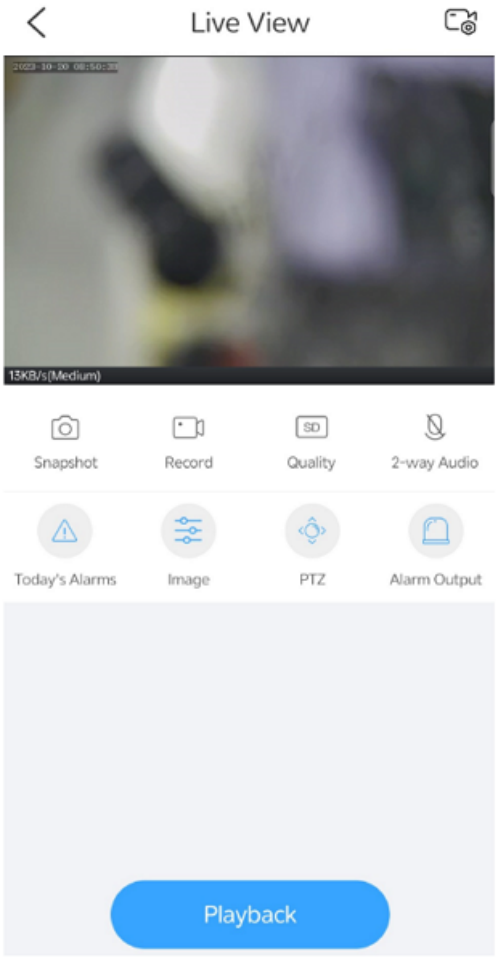
1. Open the target device's login page on your computer, and then click **Forgot Password**.

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.

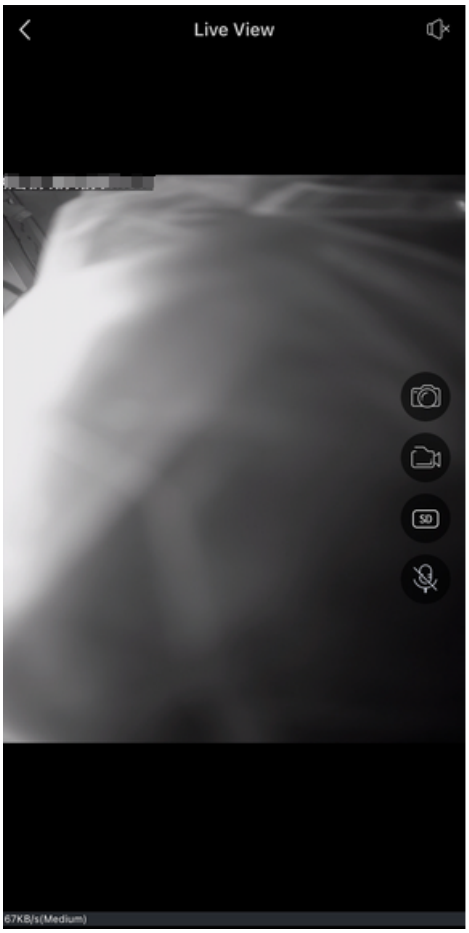
8 Video Management

8.1 Live View

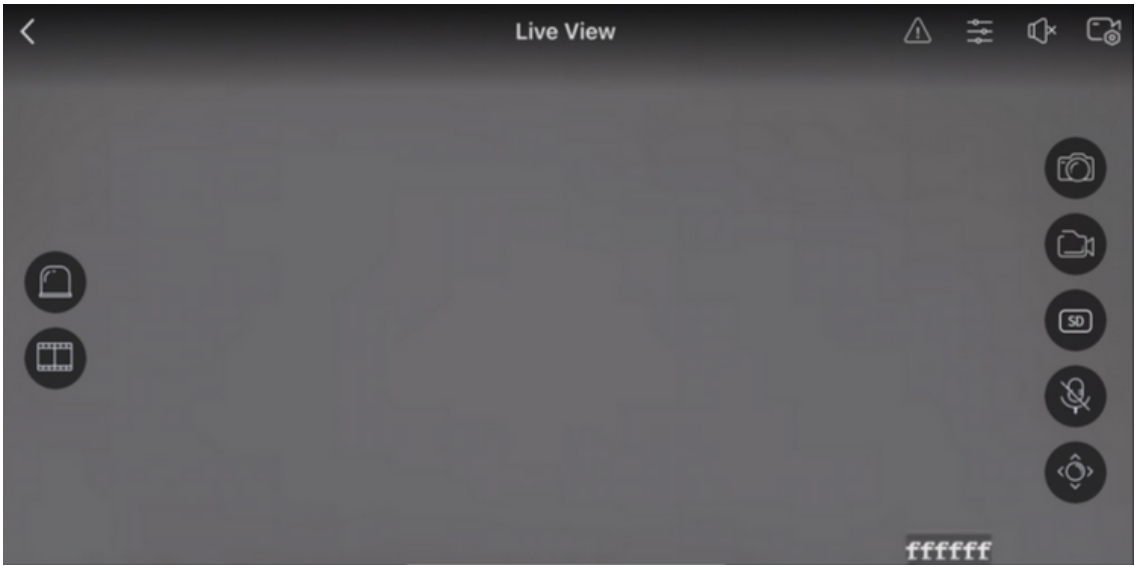
View the camera's live video and adjust image settings.



- 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.

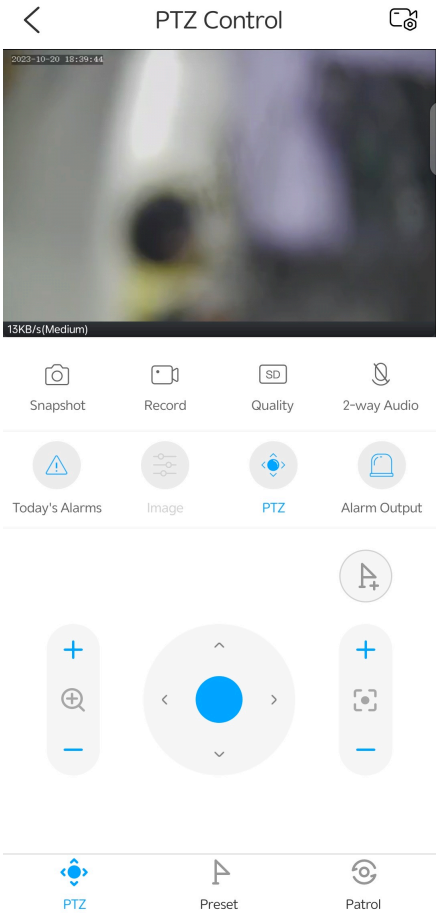


- Mute/unmute: Sound is muted by default. You can tap to turn on the speaker, and tap again to mute the sound.
- Full screen: Tap in the bottom right corner to play video in full screen. Tap in the top left corner to exit full screen.



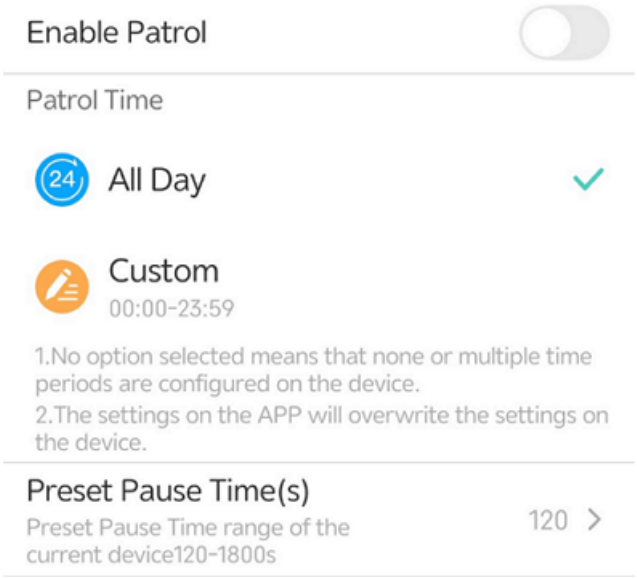
- Snapshot: Tap to capture the current image and save it to your mobile phone's album.
- Record: Tap to start video recording, and tap again to stop recording.
- Video quality: Tap Med... to switch image quality, including high, medium, and low.

- 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.

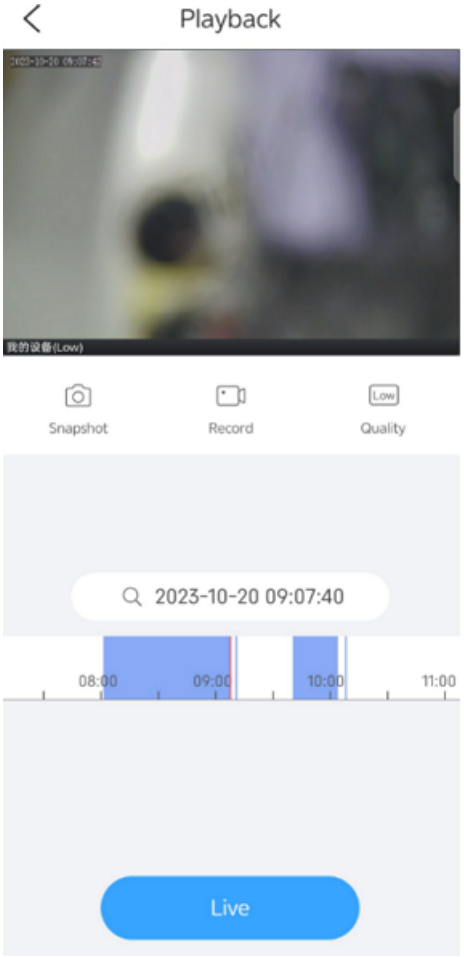


1. Tap to enable or disable patrol. When enabled, the camera will patrol in accordance with the preset order, patrol time, and stay time.
2. Set a patrol time, which can be all-day or a specific time period. Only within the patrol time will the camera conduct patrol.
3. Preset Pause Time(s): Set the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

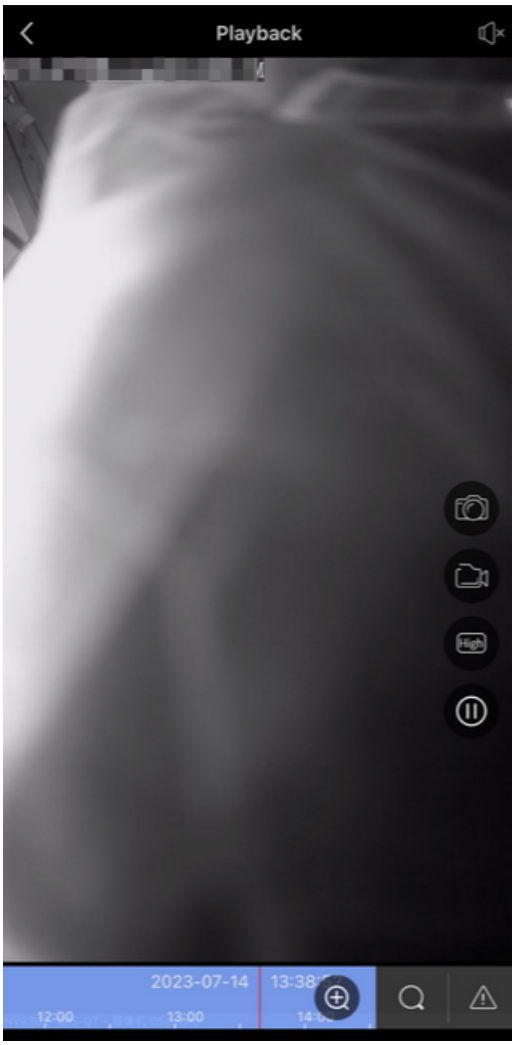
- Alarm output: Tap **Alarm Output**. If the button behind a channel is displayed as  , it means that alarm output has been enabled. After alarm output is enabled, if the camera reports an alarm, the connected external alarm output device will also report an alarm.
- Playback: Tap to play recordings.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

8.2 Playback

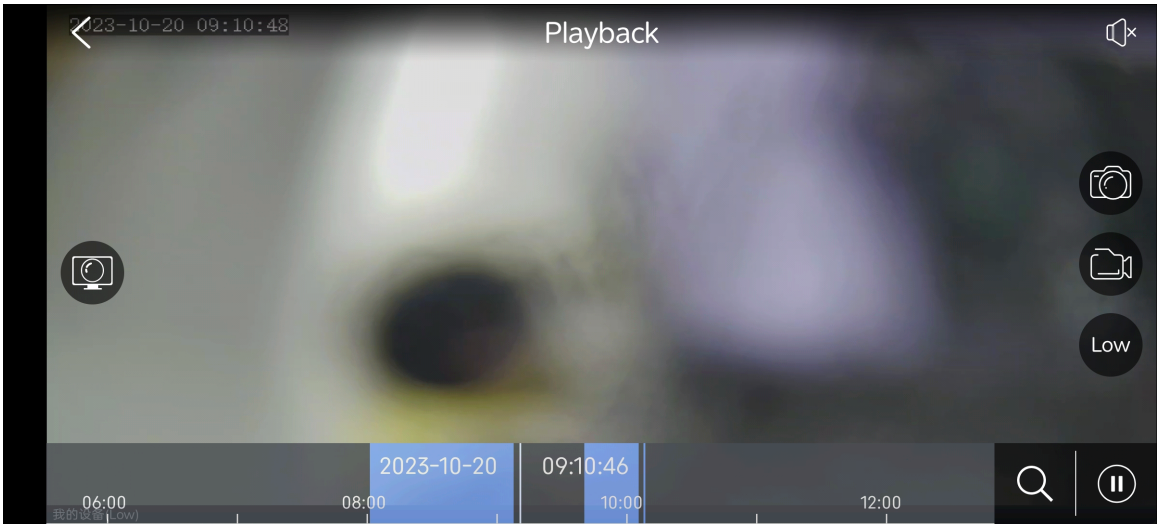
Search and play recordings of a device.



- 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 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 

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

9 Device Configuration

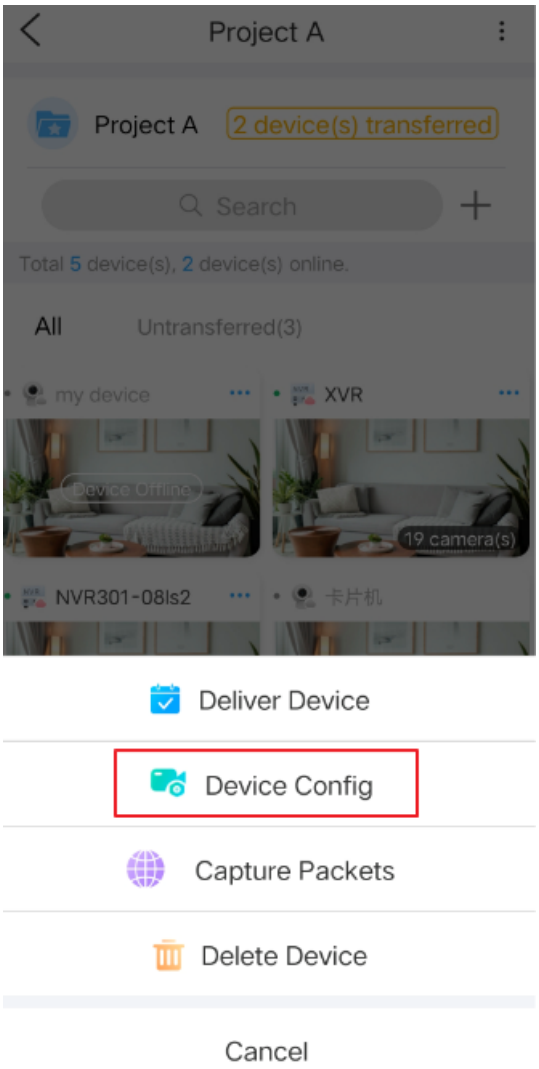
Use the app to configure device parameters.

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

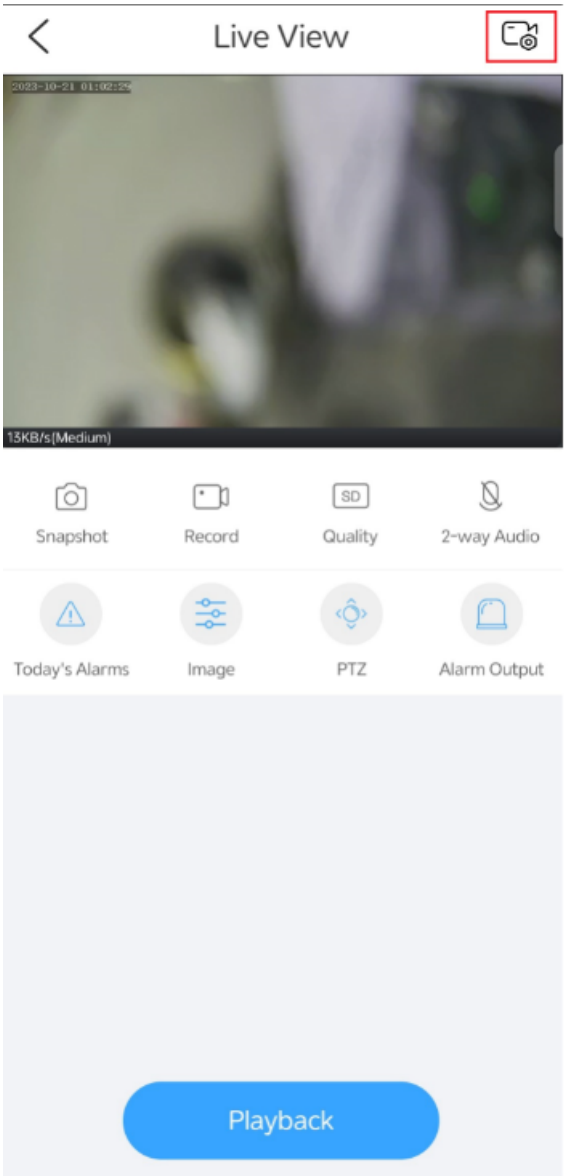
Configure Device

To configure an IPC, NVR or access control device:

- On the project details page, tap ••• behind the device name, and then choose **Device Config**.



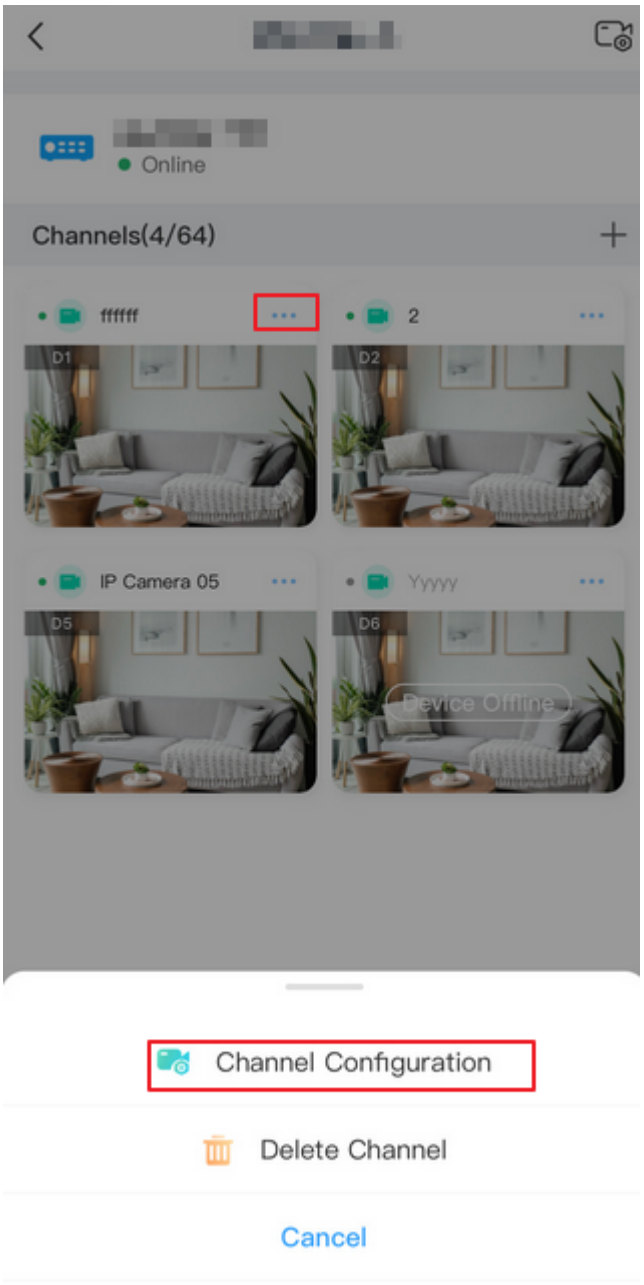
- On the project details page, tap the device's image to open the live view or channels page, and then tap  in the top right corner to open the **Settings** page.



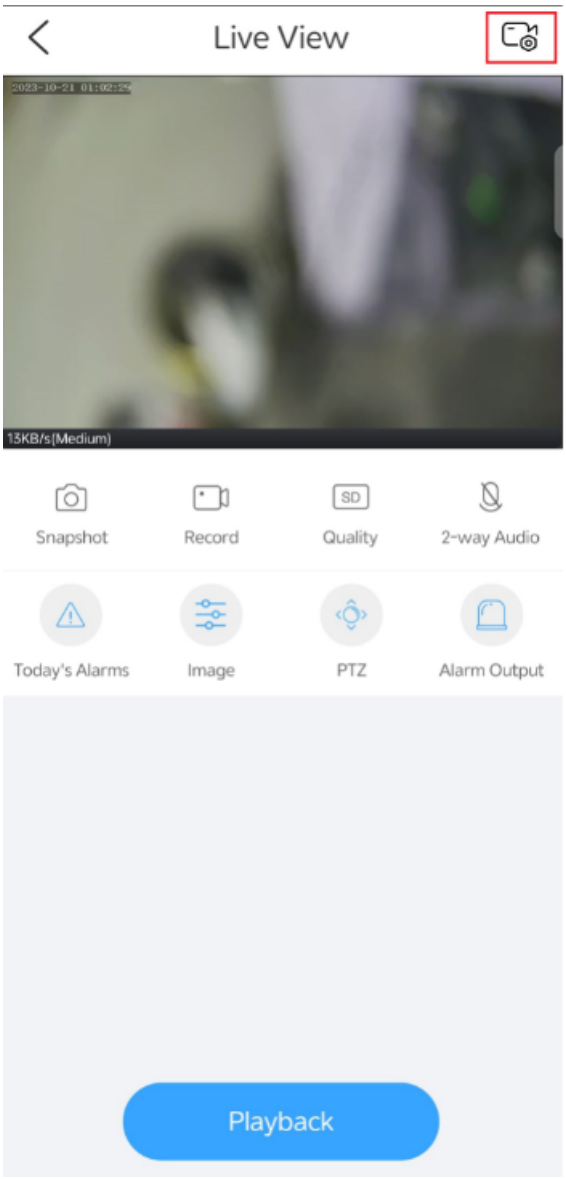
Configure Channels

To configure a channel of an NVR, IPC, or access control device:

- On the project details page, tap the device's image to open the channels page, and then tap ••• behind the channel name, and then choose **Channel Configuration**.



- On the project details page, tap a device's image to open the channels page. Tap a channel's image to open the live view page, and then tap in the top right corner to open the **Settings** page.



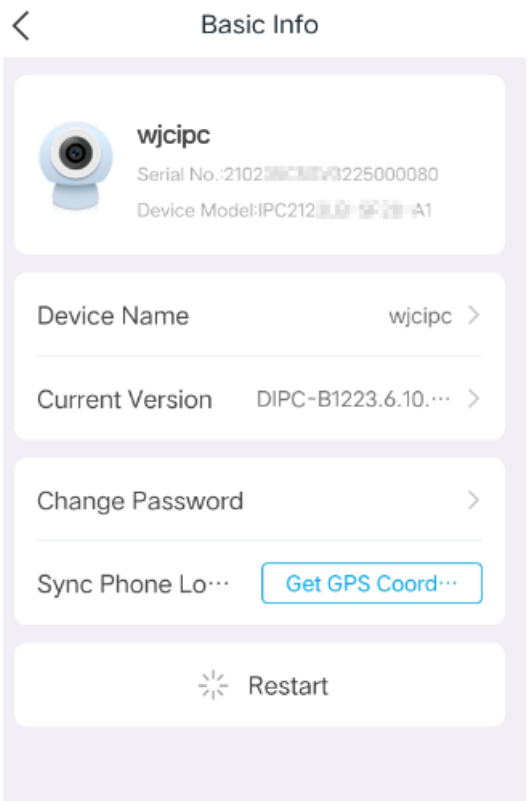
9.1 Basic Information

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 and model, modify device name and password, upgrade device version, get mobile phone's location information, and restart the device.

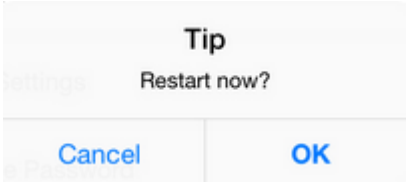
1. On the **Settings** page, tap the device name.
2. You can change device name, device password, upgrade device version, view device model and serial number, and get the mobile phone's location information.



- Change device name: Tap **Device Name**. On the page displayed, enter the new name, and then tap in the top right to save the changes.
- Change device password: Tap **Change Password**. On the page displayed, enter the old password, new password, confirm the new password, and then tap **OK** to save the changes.

  Note:
  The password of NVR channels cannot be changed on the app.
- Upgrade device version: If an update is available, a red dot will be displayed at the top right corner of the current version. You can tap **Current Version** to access the **Version Information** page and upgrade.
- When you 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.

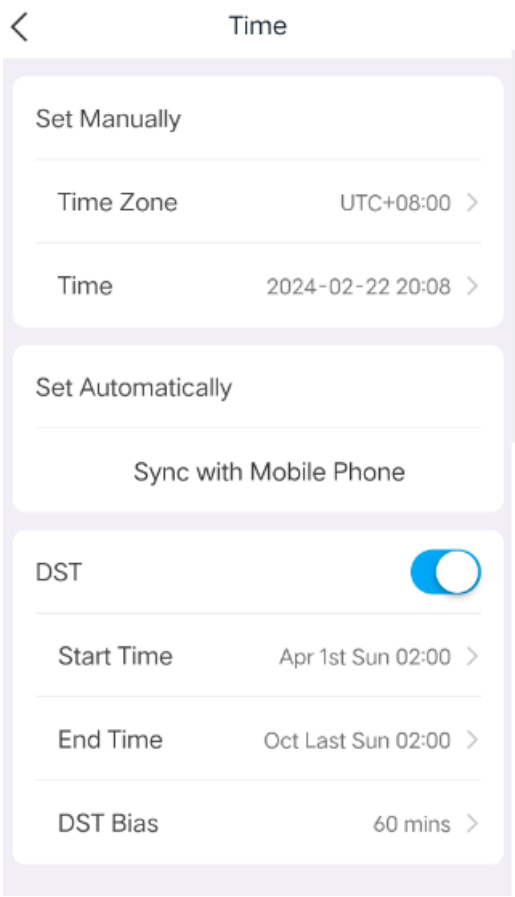
  Note:
  Not all devices can get geolocation information from a mobile phone. Therefore, this parameter may or may not be displayed depending on the device's capability.
- Restart device: Tap **Restart**, and then confirm to restart the device.



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

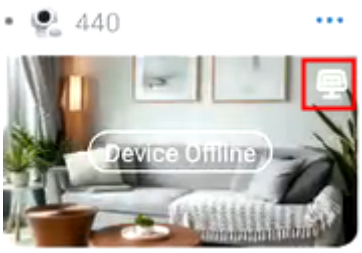
Advanced configuration provides a portal to the device's web interface for quick configuration.

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

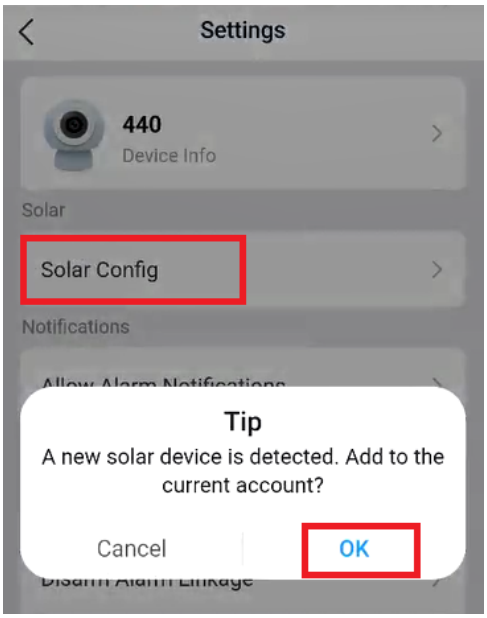
After connecting the camera to the solar device using a network cable, you can bind the solar device to the camera through the app using the following methods:

- 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.

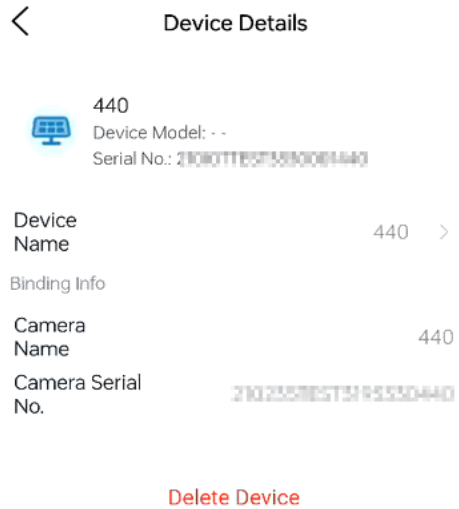


- Scenario 3 (solar device already added to another account):

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

Rename & Delete

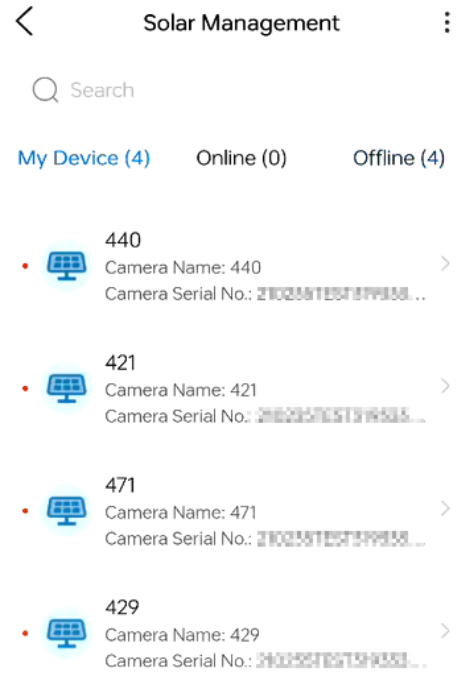
On the project details page, tap ••• > **Solar Config** for a camera or tap  and select a solar device to enter the **Device Details** page, and then you can rename or delete the solar device from the account.



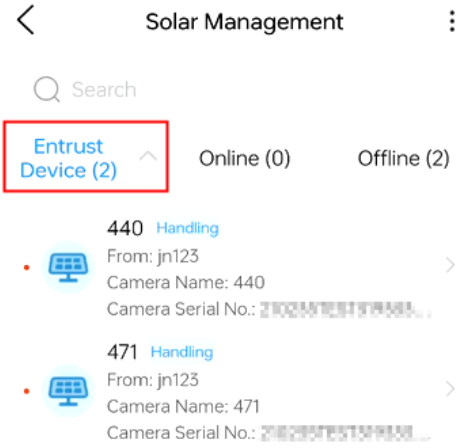
Solar Device List

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

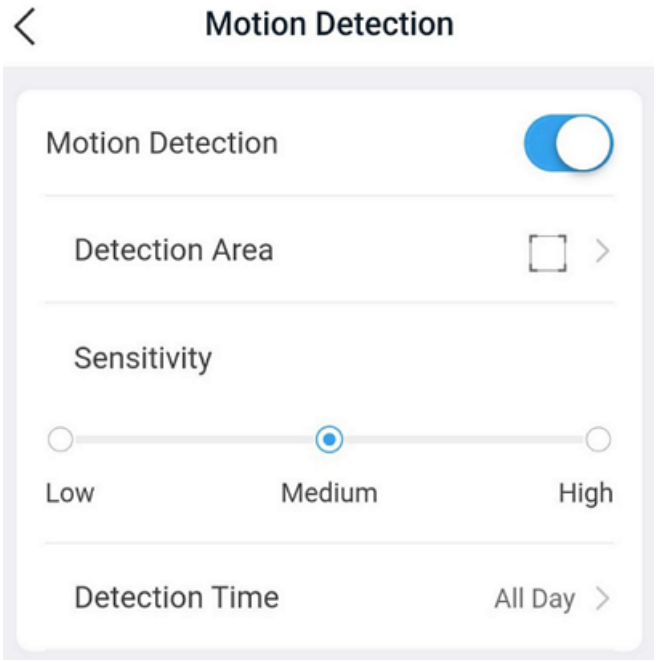
Set alarm sound, arming/disarming, and configure alarm parameters.

9.3.1 Alarm Detection

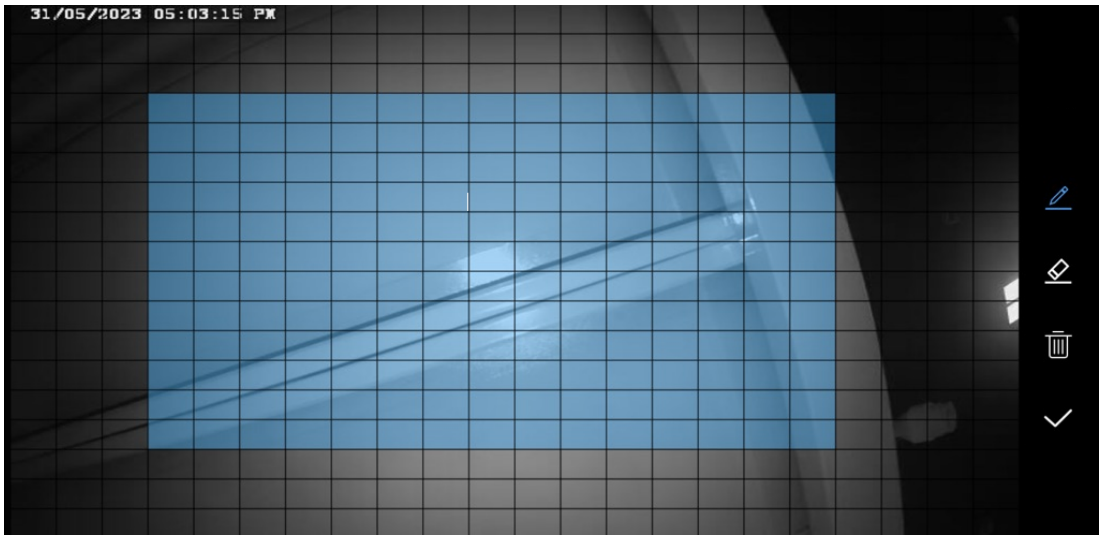
Motion Detection

Motion detection detects the motion of objects within a specified area during a specified period, based on the sensitivity set by the user.

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



2. Enable motion detection as needed. After enabling motion detection, you need to set detection area, detection sensitivity, detection time, and alarm snapshot (if applicable).
   - Draw Area: Tap to draw the detection area.



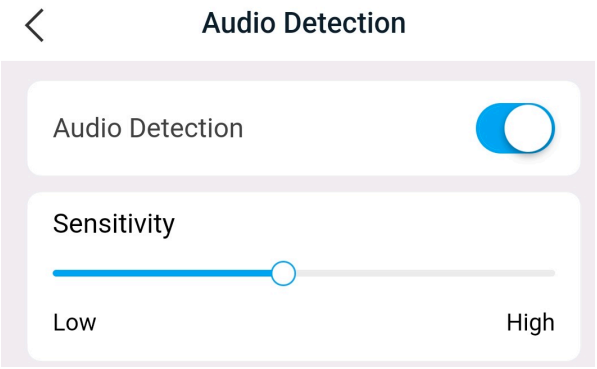
- Draw area: By default, the entire screen is the detection area (blue). Tap and then drag on the screen to erase detection area; tap and then drag on the screen to draw detection area (blue). After completing the drawing, tap to save the area.
- Redraw an area: Tap to clear the existing area on the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

- 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.
- Detection time: It can be set to all-day or a specified time period. To specify a time period, choose **Customize**, and then set the start time and end time in the pop-up box. Tap **OK**. The device will detect motion within the specified detection area during the specified time period every day.
- Alarm snapshot: When enabled, an alarm image will be attached to motion detection alarms.

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

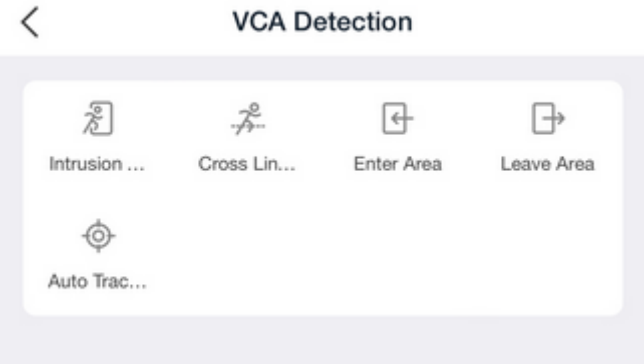
Audio Detection

Audio detection detects sound within the specified area. After enabling audio detection, you need to set and adjust detection sensitivity based on actual requirements and testing. A higher sensitivity level will result in easier sound detection.



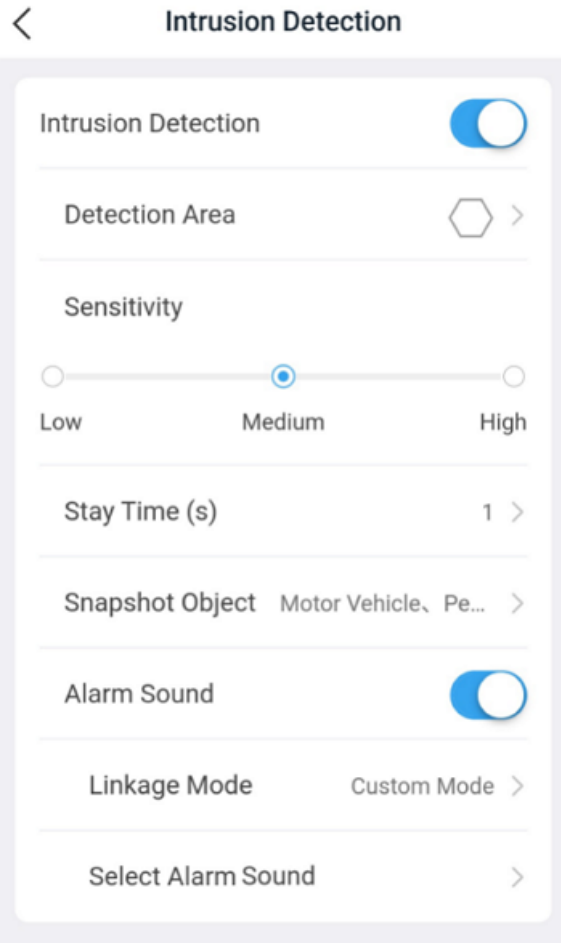
9.3.2 VCA Detection

The app supports the following types of VCA detections.



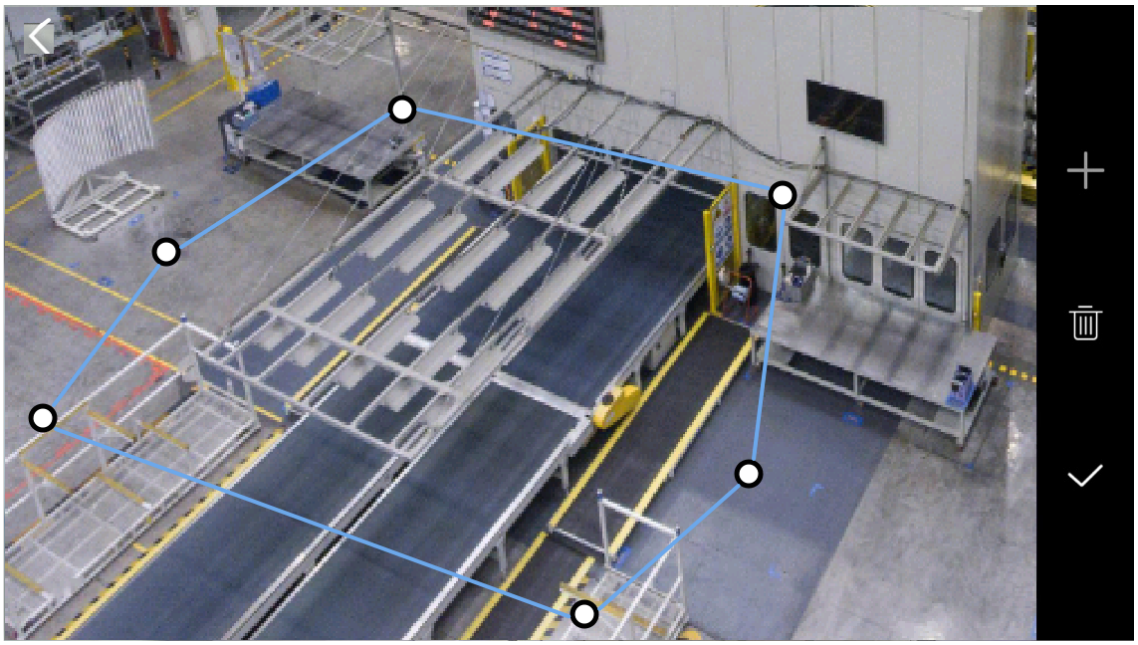
Intrusion Detection

Intrusion detection triggers an alarm when it detects an object entering the specified area in the live video and staying within the area for a certain length of time.



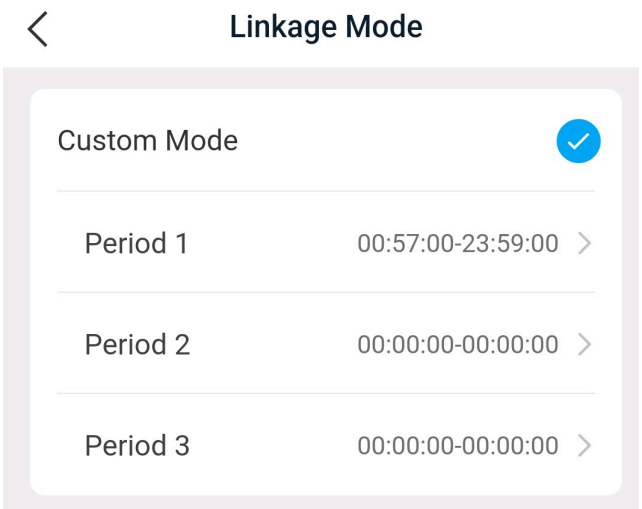
The parameters are described below.

- Detection area: Tap to draw the detection area.



- Draw an 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 an 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.

- 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.
- Stay time: If the detected object enters the area and stays in the area for the set time, an alarm will be triggered.
- Detection object: Choose an object type, including motor vehicle, non-motor vehicle, or pedestrian.
- Linkage Mode: Configure an arming schedule for the triggered alarms.



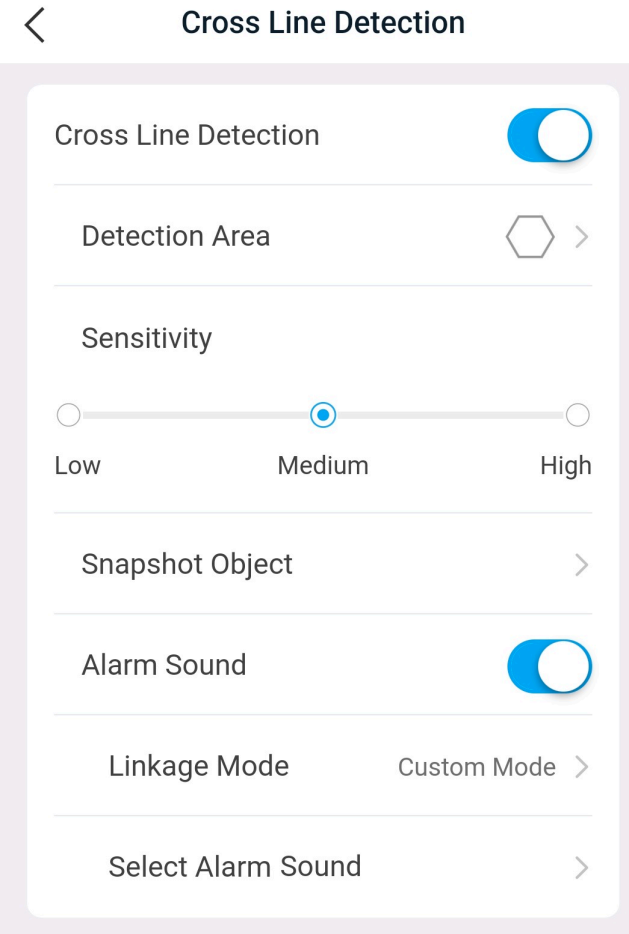
Note:

- Set the start and end time of the arming schedule. The daily schedule takes effect within the set time range.
- Up to three arming schedules can be configured. The time range of the configured schedules must not overlap.

- Select Alarm Sound:Tap and then choose an alarm sound from the list. You can choose an alarm sound provided by the system or an alarm sound that you have customized.

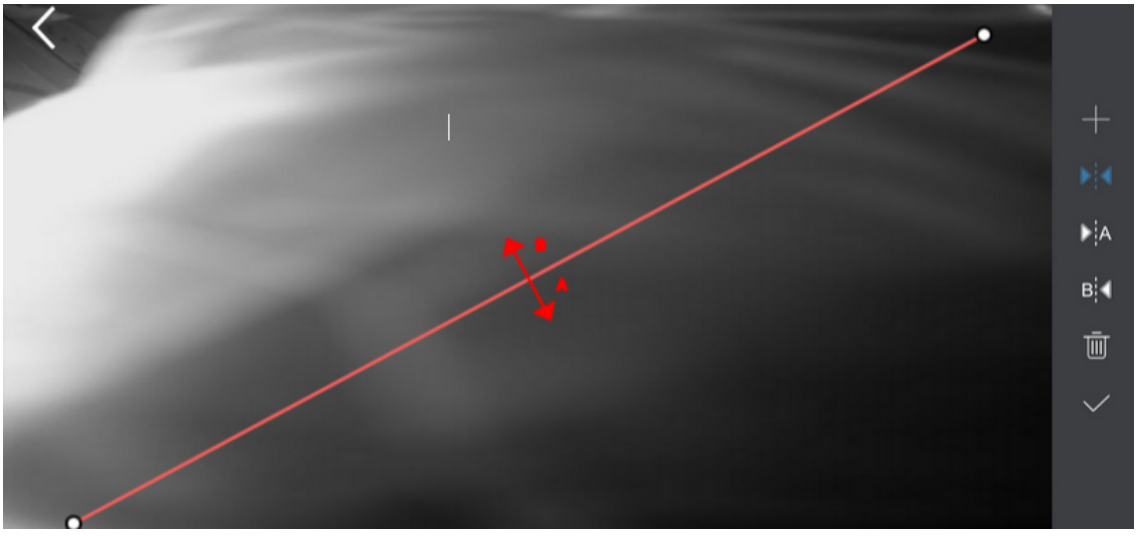
Cross Line Detection

Cross line detection triggers an alarm when it detects an object crossing the detection line in the specified direction in the live video.



The parameters are described below.

- Detection Area. An alarm will be triggered if an object crosses the detection line (also known as tripwire) in the specified direction.



  - Draw the 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

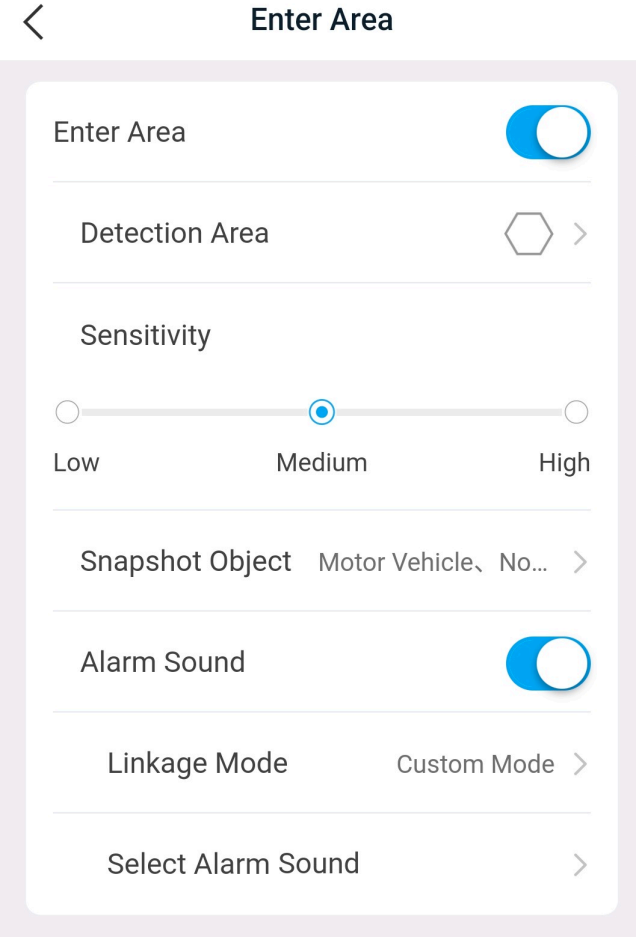
A to B; an alarm will not be triggered when the object crosses the detection line from B to A. When you complete the drawing, tap to save the detection line.

- 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 .

- For other parameters, please refer to Intrusion Detection.

Enter Area

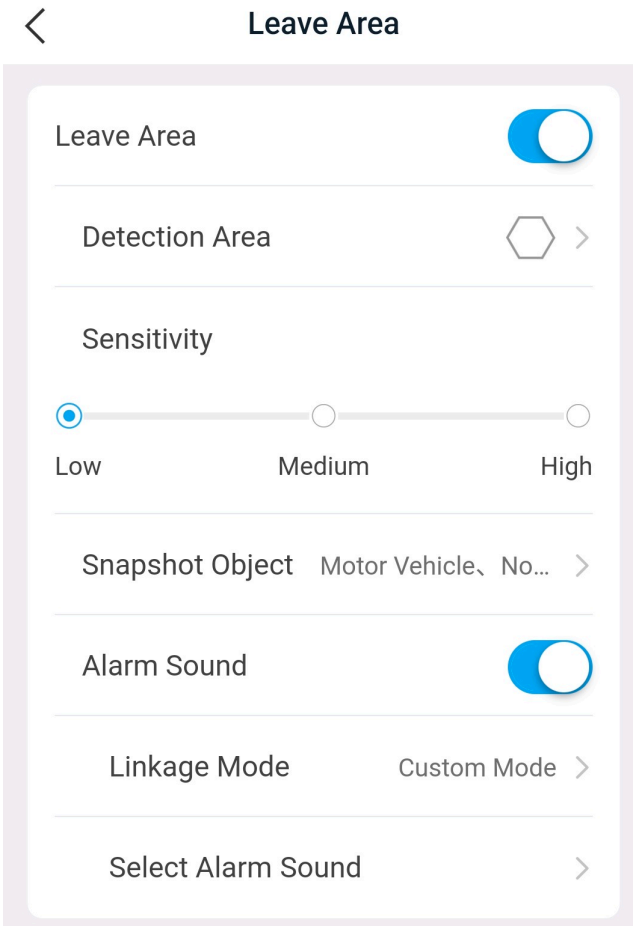
Enter area detection triggers an alarm when it detects an object entering the detection area in the live video.



For parameter descriptions, please refer to Intrusion Detection.

Leave Area

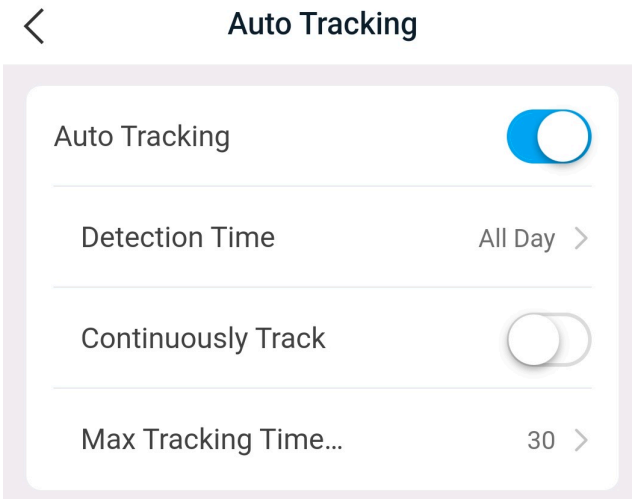
Leave area detection triggers an alarm when it detects an object exiting the specified area in the live video.



For parameter descriptions, please refer to Intrusion Detection.

Auto Tracking

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



The parameters are described below.

- Detection time: It can be set to all-day or a specified time period. To specify a time period, choose **Customize**, and then set the start time and end time in the pop-up box. Tap **OK**. The device will detect motion within the specified detection area during the specified time period every day.
- Continuously track: When enabled, the device will track the target until it leaves the surveillance area. When disabled, the device will track the target according to the maximum tracking time.
- Maximum tracking time(s): The maximum length of time for the device to track the target. For example, if the time is set to 10 seconds, and if the target does not leave the surveillance area within this timeframe after triggering the rules, the camera will cease tracking.

Note:
The maximum tracking time is displayed only when **Continuously Track** is disabled.

9.3.3 Disarm Alarm Linkage

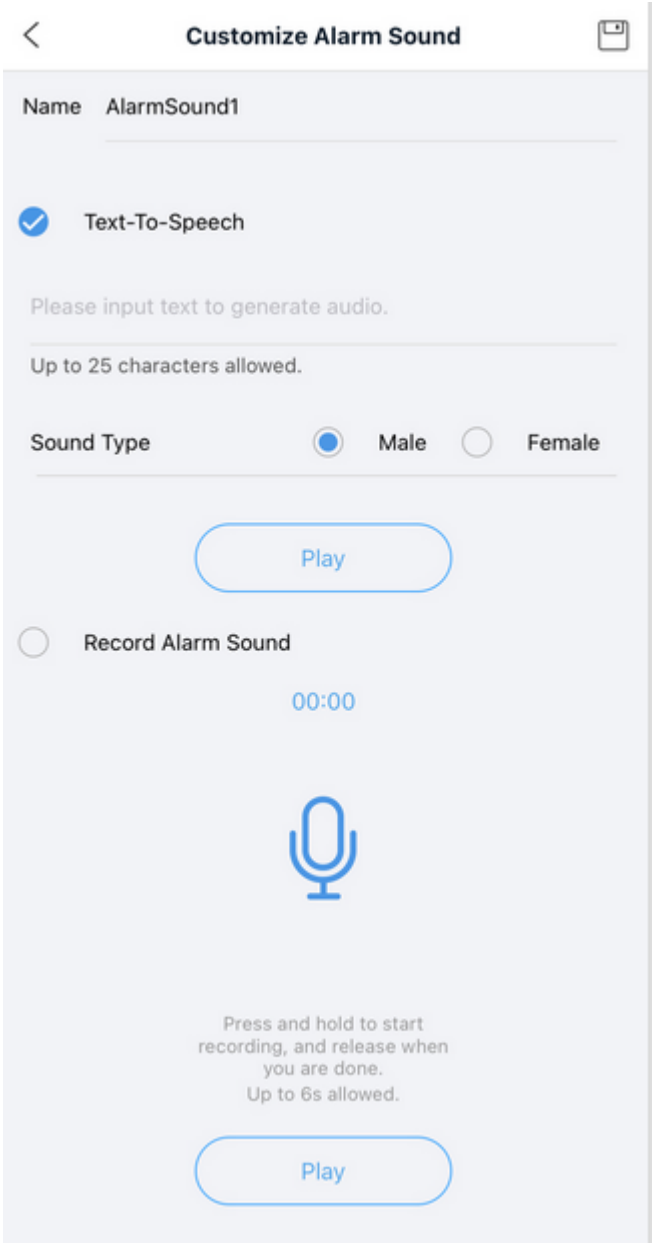
You can disarm the system to deactive alarm linkage during the disarming period.

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

9.3.4 Customize Alarm Sound

Customize alarm sound (see Set 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**.

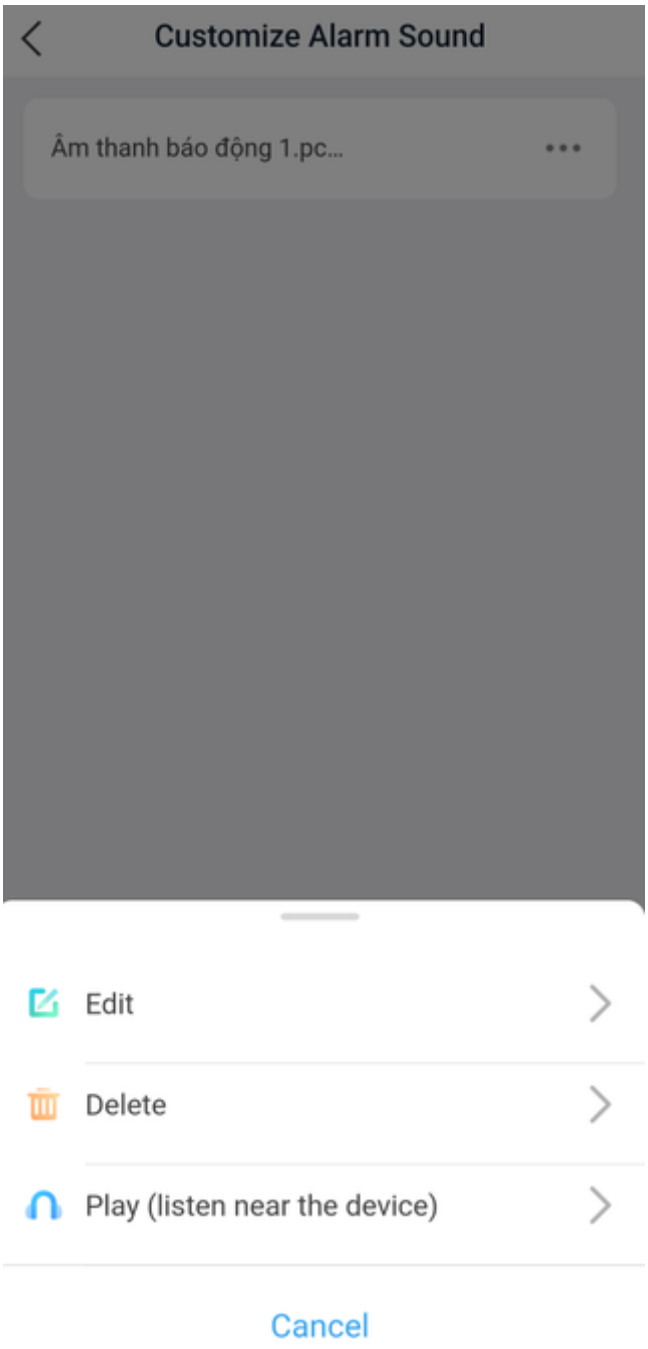


3. Enter the alarm sound name.
   - Text-To-Speech: Enter the text to be generated, choose a sound type (male or female). The system will convert the text into audio. Tap **Play** to try it on your mobile phone.

- 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:



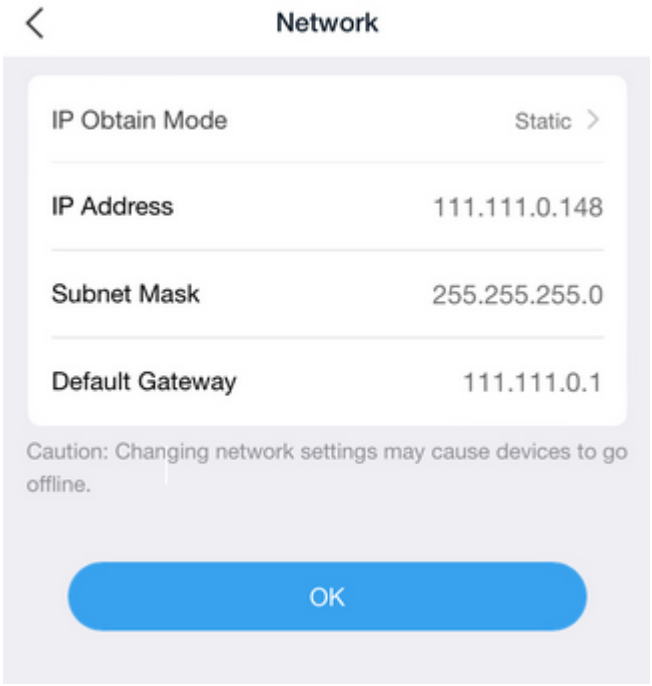
- Edit: Tap to rename the alarm sound.
- Delete: Tap to delete the alarm sound.
- Play (listen near the device): Tap to play the alarm sound on the device.

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.

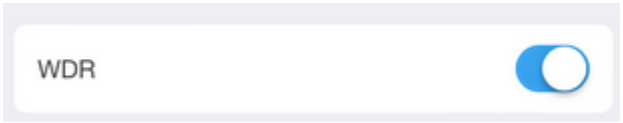
9.4.2 Image

Image configuration includes WDR, smart illumination, and day/night mode.

WDR

WDR is suitable for scenes with strong contrast between bright and dark areas on the image. When WDR is enabled, both the bright and dark areas in the image can be clearly visible.

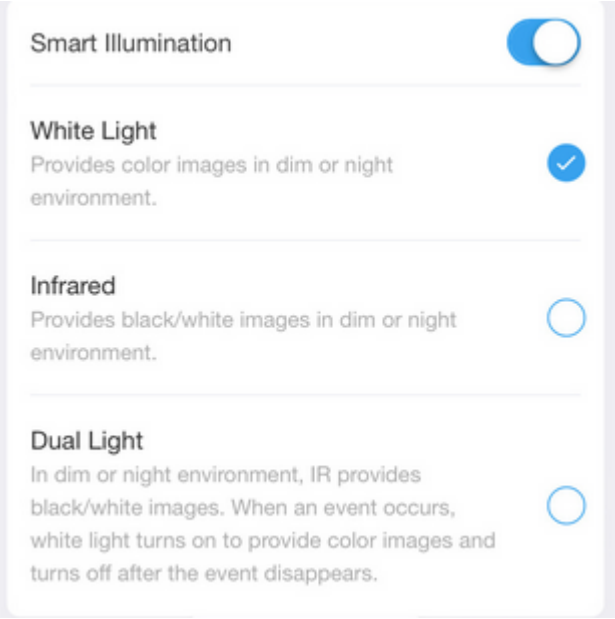
1. On the **Settings** page, tap **Image** > **WDR**.



2. Tap to enable or disable WDR.

Smart Illumination

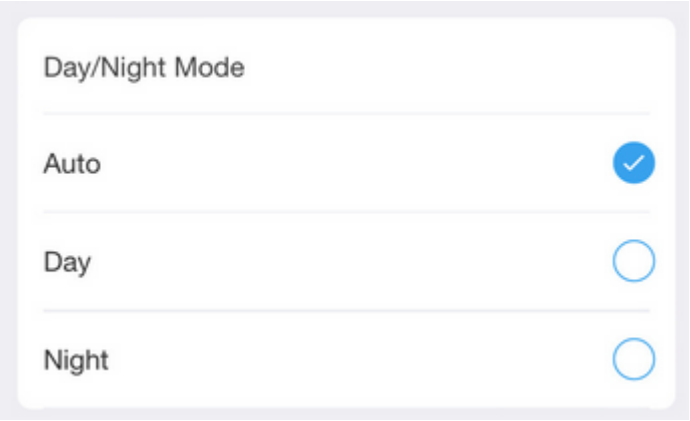
1. On the **Settings** page, tap **Image** > **Smart Illumination**.
2. Tap to enable or disable smart illumination.



3. After enabling smart illumination, choose an illumination mode.
   - 1. White light mode: The device renders color images at night or in a low-light environment.
   - 2. Infrared mode: The device renders black and white images at night or in a low-light environment.
   - 3. 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

1. On the **Settings** page, tap **Image** > **Day/Night Mode**.

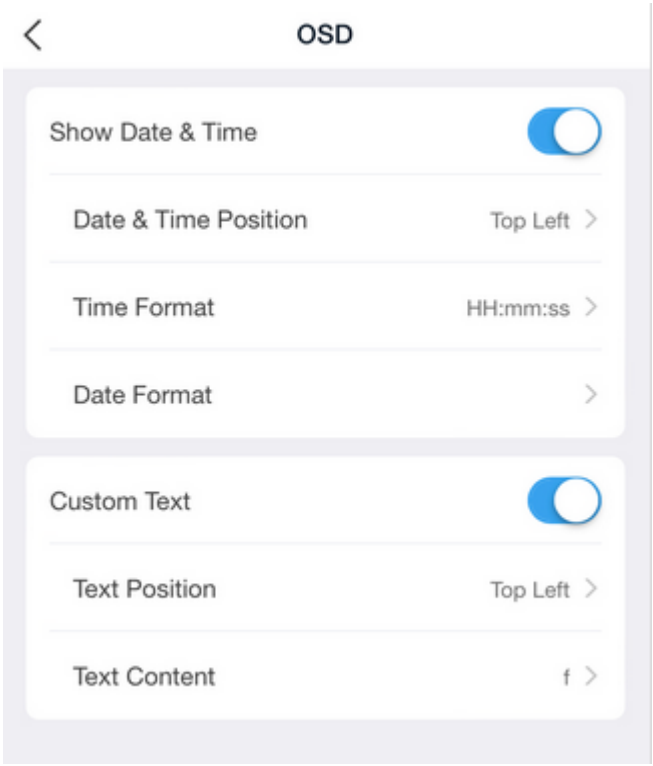


2. Choose a day/night mode as needed, and then tap **OK**. The settings take effect immediately. The day/night mode is described below.
   - Auto: The device automatically switches between black and white mode and color mode based on changes in the ambient light.
   - Day: The device uses the daylight 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.

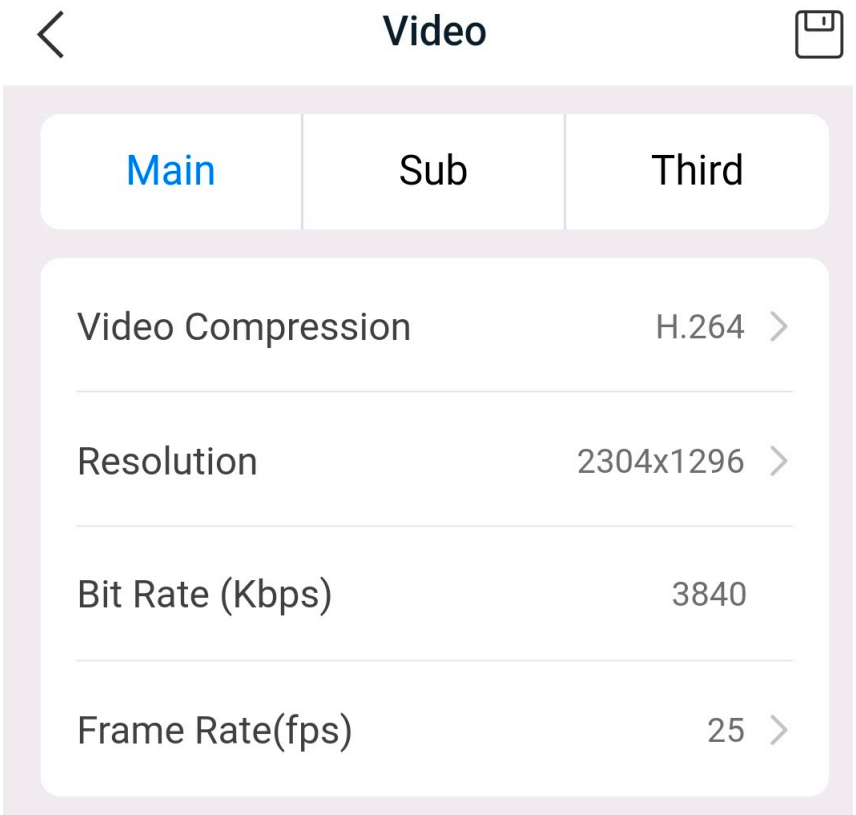
1. On the **Settings** page, tap **Image** > **OSD**.
2. Set the position and format for date and time, and customize text and its position.



9.4.3 Video

Configure video stream parameters of the device.

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



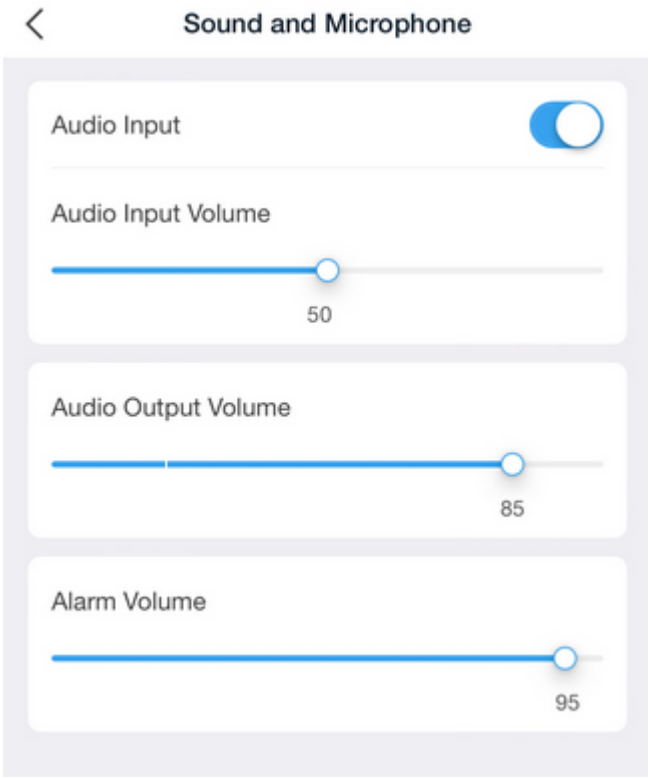
- Video compression: By using standardized video compression algorithms, the device converts videos from the original format into the selected video format for efficient transmission and storage.
- Resolution: Number of pixels per inch of image. Higher resolution means larger image size; lower resolution means smaller image size.

- Bitrate type: VBR (Variable Bit Rate) adjusts the bit rate dynamically based on the video content to ensure the clarity of dynamic images. It provides good image quality at the expense of increased compression time. CBR (Constant Bit Rate) provides a shorter compression time, but if the bit rate is not appropriate, the image quality may be affected.
- Bit rate: The amount of data encoded by the encoder per second. With the resolution fixed, the bit rate is directly proportional to the clarity of the image. This means that a higher bit rate results in higher image clarity, while a lower bit rate leads to blurriness.
- Frame rate: The number of frames per second. The higher the frame rate, the smoother the video; the lower the frame rate, the more noticeable the stutter.

3. Tap in the top right corner to save the settings.

9.4.4 Sound and Microphone

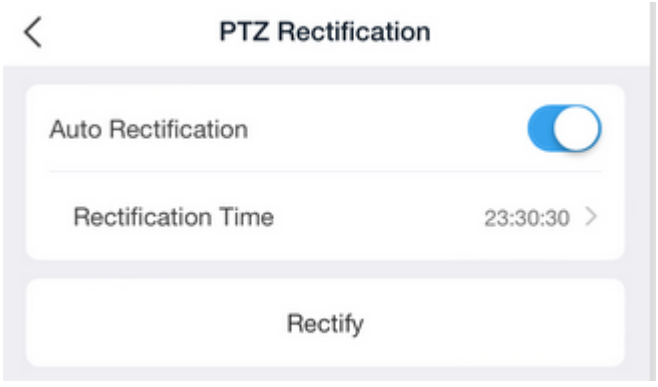
1. On the **Settings** page, tap **Sound and Microphone**.
2. After enabling **Audio Input**, you can drag the blue slider to adjust the volume of audio input/output and alarm.



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.

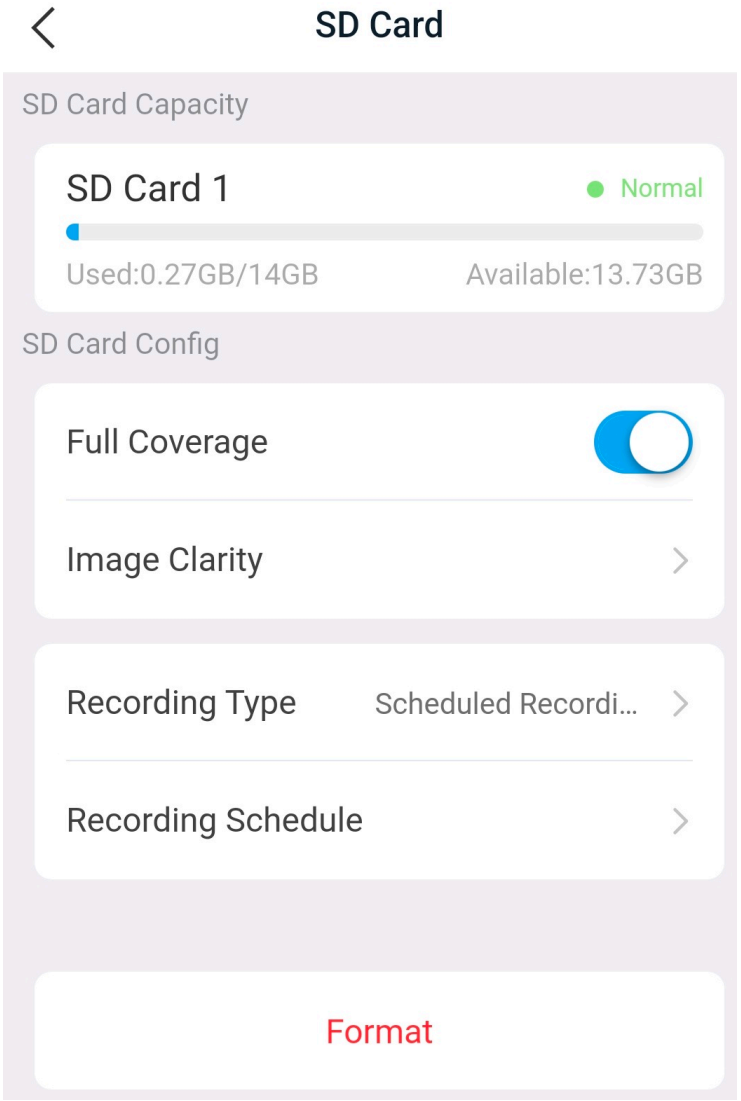
1. On the **Settings** page, tap **PTZ** > **PTZ Rectification**.



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.

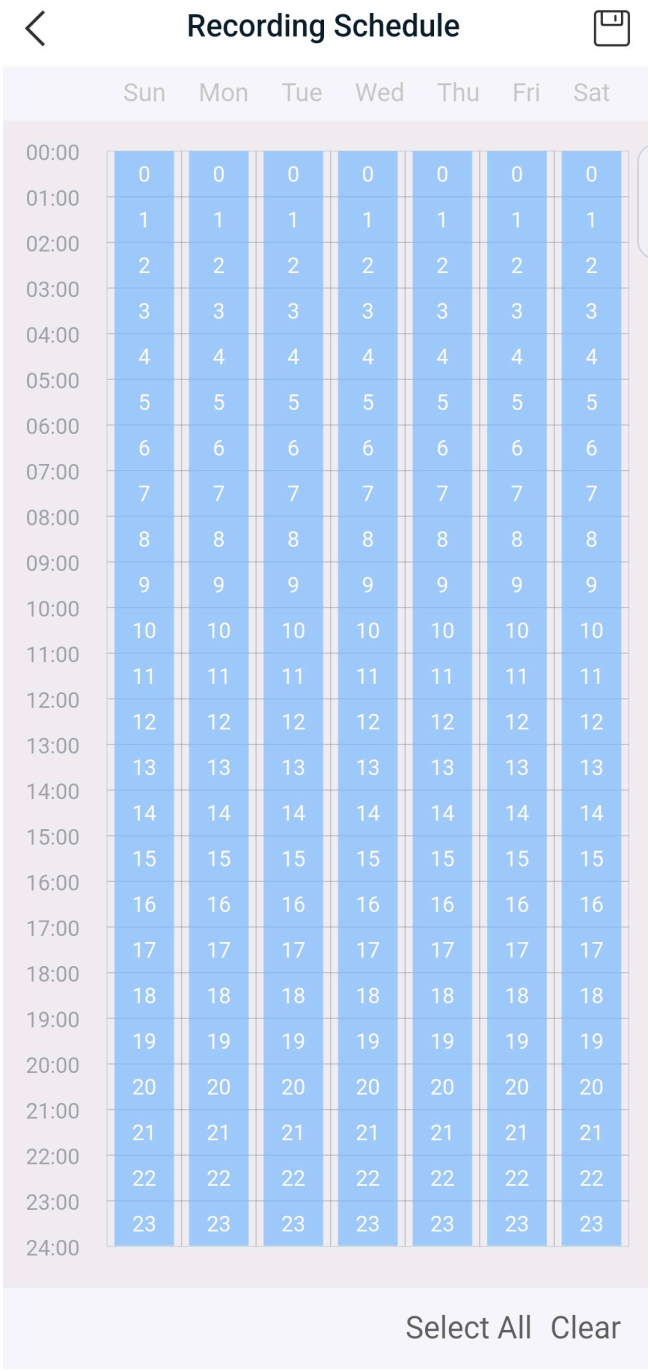
9.4.6 Storage

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.

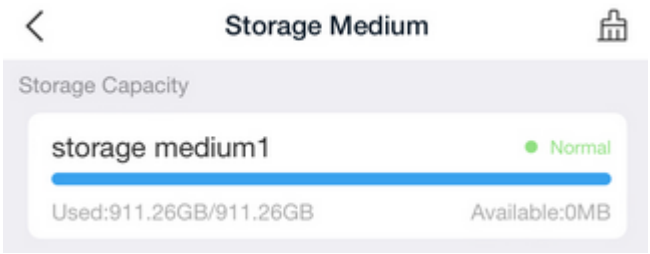
2. View and configure the SD card on the **SD Card** page.
   - Full Coverage: When enabled, the earliest recordings saved on the SD card will be overwritten when the space is used up. When disabled, video recording will stop when the space is used up.
   - Image Clarity: Choose the desired stream type. 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

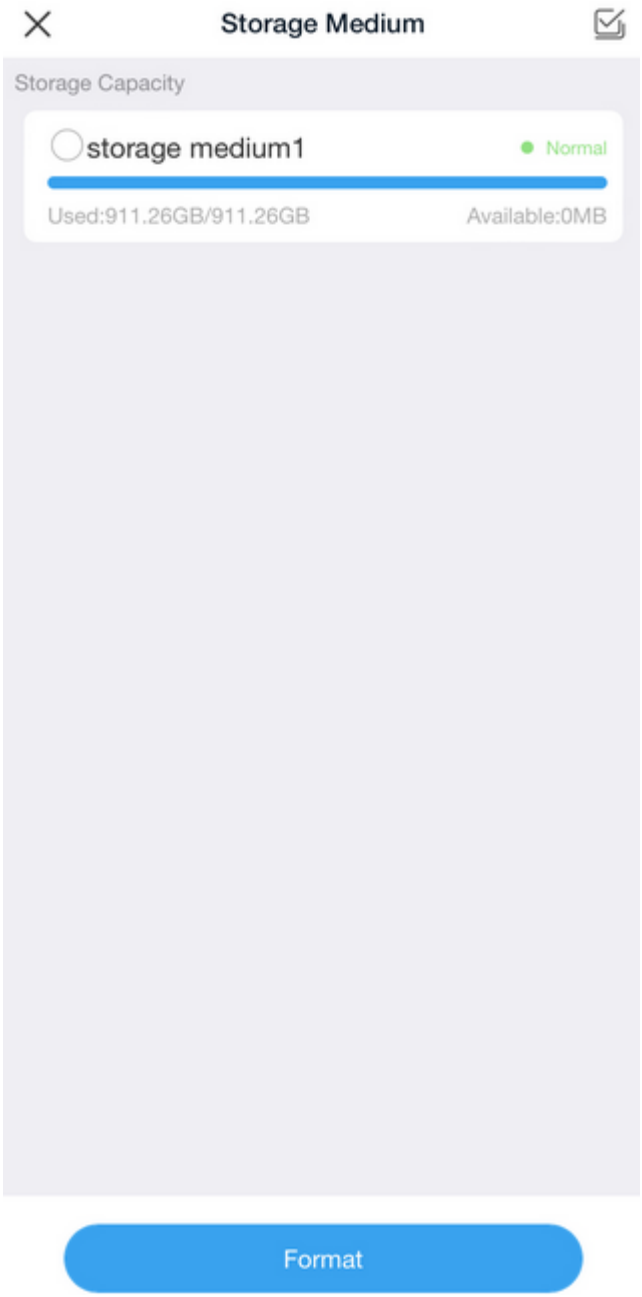
View the storage medium status of an NVR or format storage medium.

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.



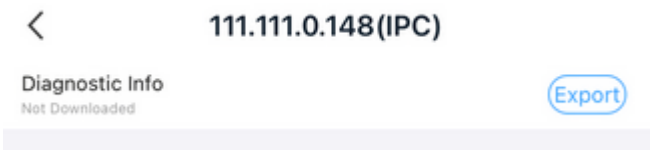
(2) Tap **Format** at the bottom, and then confirm.

9.5 More

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

Export Device Diagnostic Information

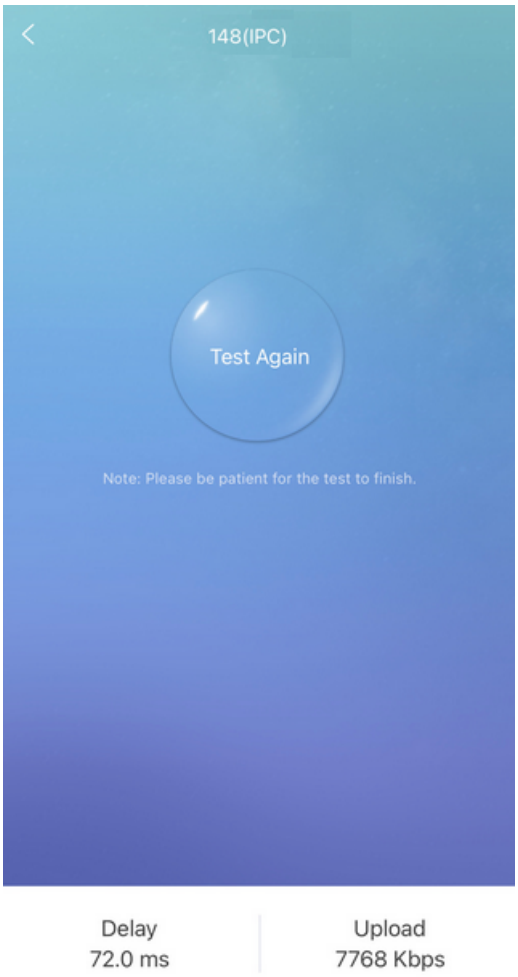
1. On the **Settings** screen, tap **More** > **Export Device Diagnostic Info**.



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

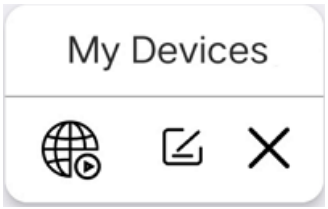
Speed Test

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.

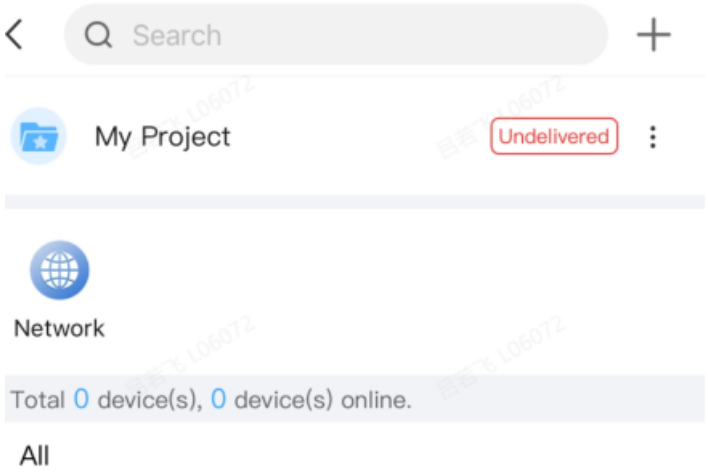
Device Restore

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

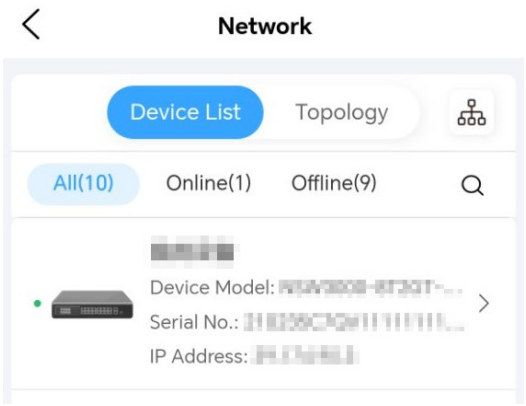
10 Switch Management

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

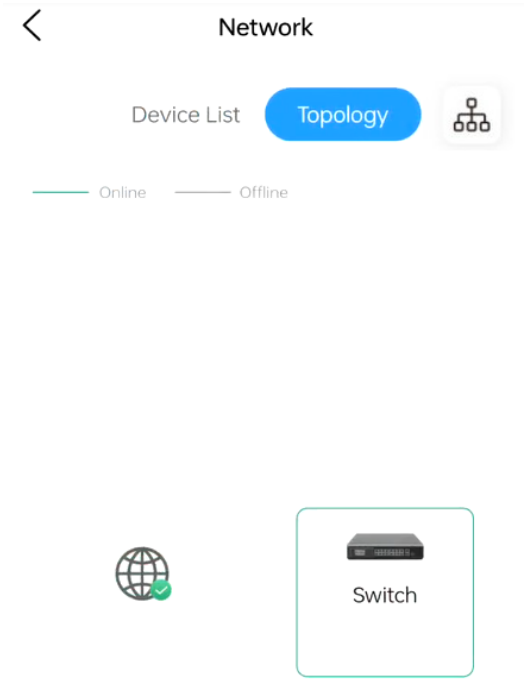
Tap on a project in the project list to view project details. Tap **Network** to view the switch information.



- Device list: View all/online/offline switches. You can search devices by device name and serial number. Tap **>** for the device to view Device Details.



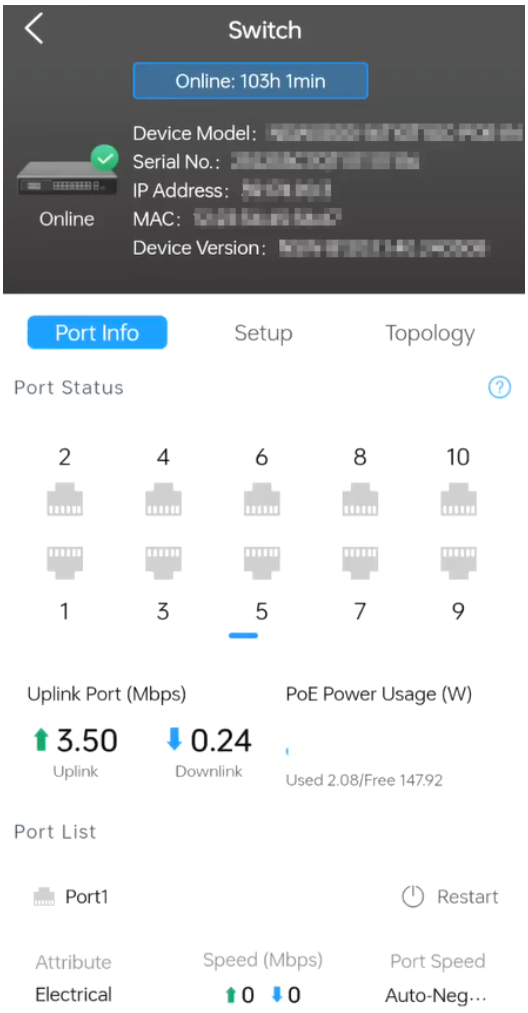
- Topology: View switch's network topology.



- Supports gesture operations: Use two fingers to pinch open/closed to zoom out/in on the topology; use one finger to move the topology.
- Tap on an switch icon on the topology to view Device Details.

10.1 Port Information

View the port information such as port list, running status, uplink speed, downlink speed, and PoE power usage.



Port Icon Description

- Port type: copper port; optical port; uplink port.
- Port status: up; down; error; PoE power supply.

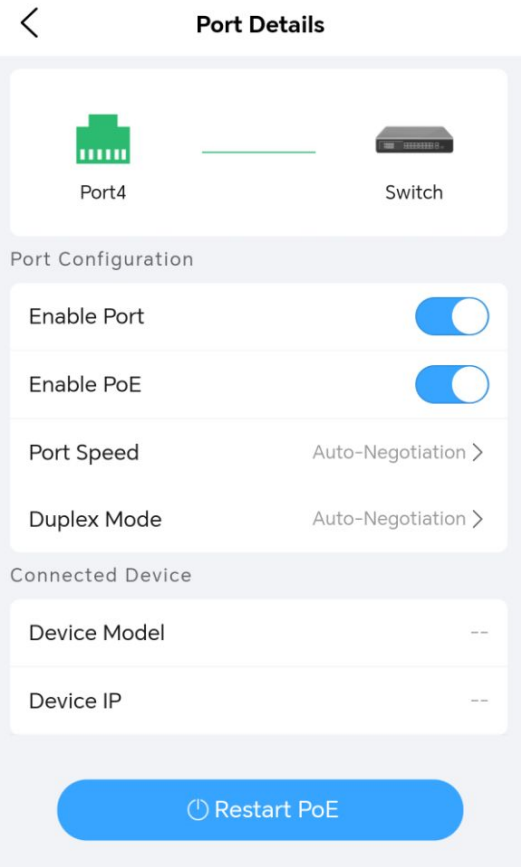
Restart Port

In the port list, tap **Restart** for the port to restart the port's PoE power supply.

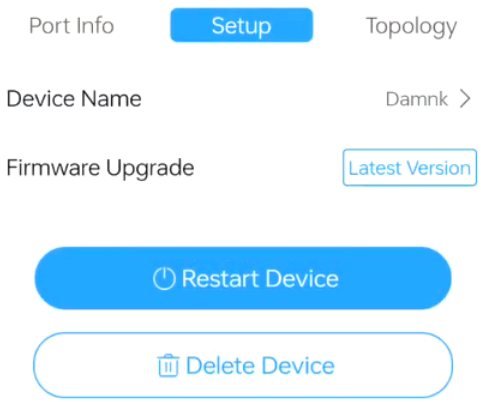
Port Details

In the port list, tap on a port information to view port details.

- View the type of the connected device (IPC/NVR/Switch/Unknown), device model, and device IP address.
- Tap to enable/disable the port and PoE. You can also set the port speed and duplex mode.
- Tap **Restart PoE** to restart the port's PoE power supply.



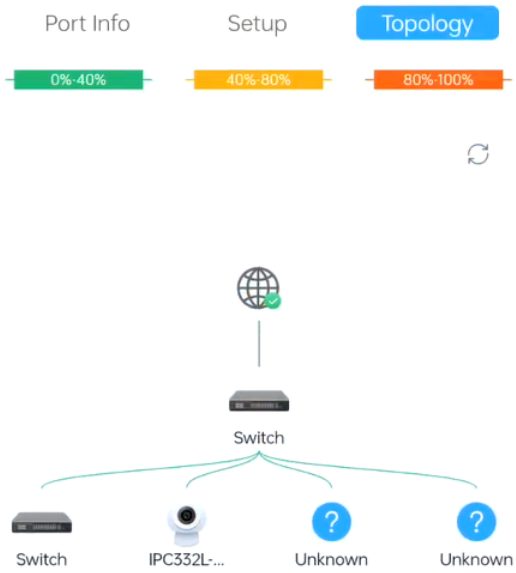
10.2 Device Setup



- Device name: Tap **>** to edit the device name.
- Firmware upgrade: For online devices, the system can detect the device's latest version automatically.
  - If already the latest version, tap **Latest Version** to view the current version information.
  - If a new version is available, tap **Upgrade** to view the current and the latest version. You can upgrade the device version by following the on-screen instructions.
- Restart device: Tap **Restart Device** to restart the switch.
- Delete device: Tap **Delete Device** to delete the device from the app.

10.3 Device Topology

View the connected devices of each port in topology.



- Supports gesture operations: Use two fingers to pinch open/closed to zoom out/in on the topology; use one finger to move the topology.
- Tap in the upper right corner to refresh the topology.

11 Message

When end users of UNV-Link app need after-sales service of devices, they can entrust devices to the contractor on the UNV-Link Pro app for maintenance and troubleshooting. Contractors can view device entrustment messages on the **Message** screen. For operations on entrusted devices, see details in Project Management.

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

Alarm & Service Message

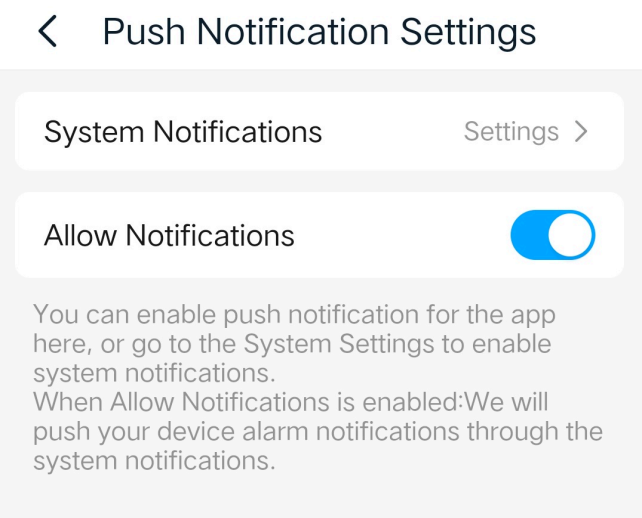
Tap and set date, device name, and device type as filter criteria as needed to filter alarms.

Tap on an alarm/service message to view details.

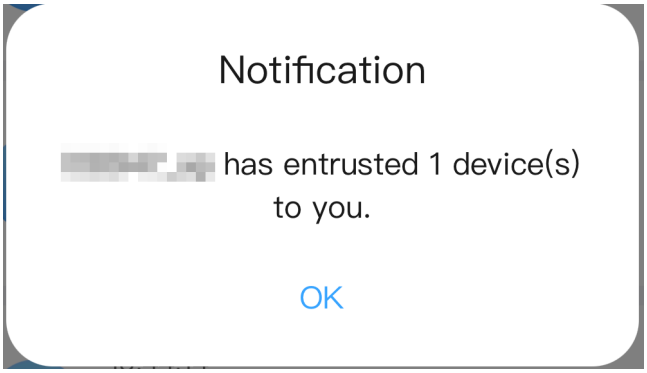
Note: Device entrustment messages remain valid for 30 days, after which they will be deleted automatically.

Push Notification Settings

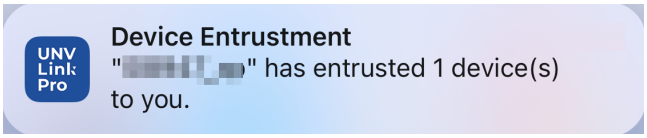
Tap > **Push Notification Settings**. There is a portal to go to System Settings to set push notification. You can also toggle **Allow Notifications** switch on/off to enable/disable app's push notification.



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

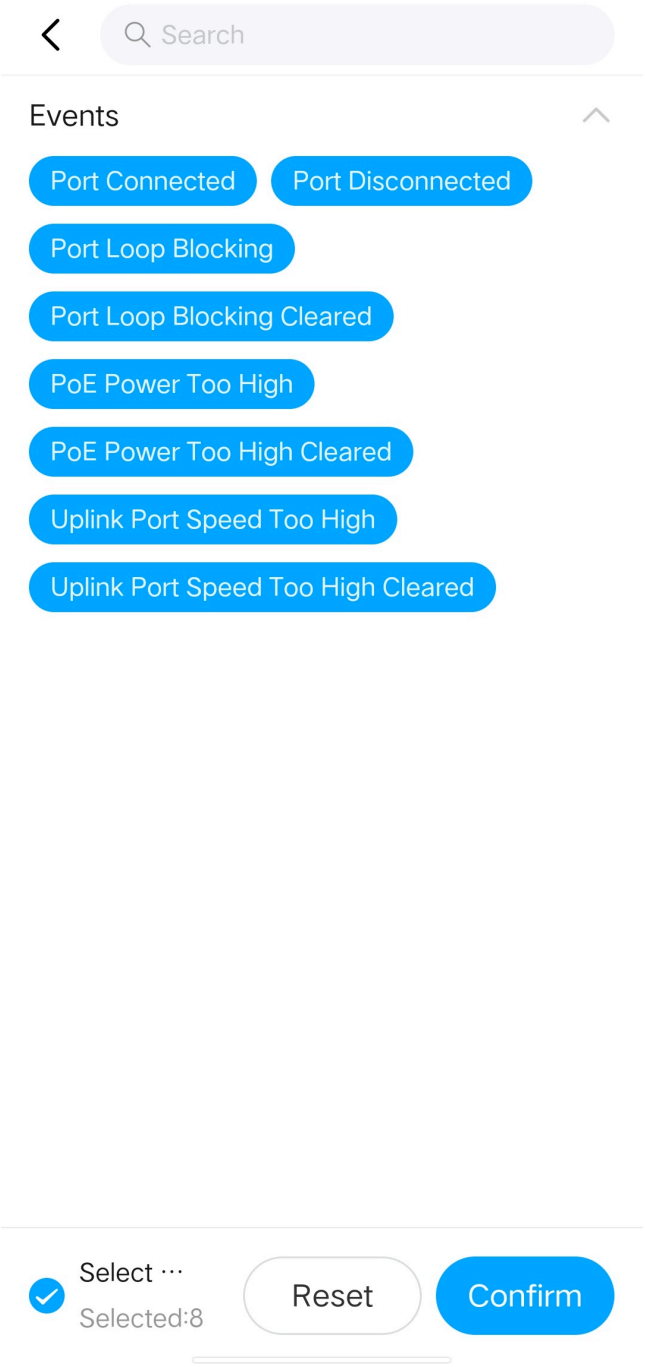


- When the app is closed or running in the background: New messages will be pushed via system notifications.



Notification Type

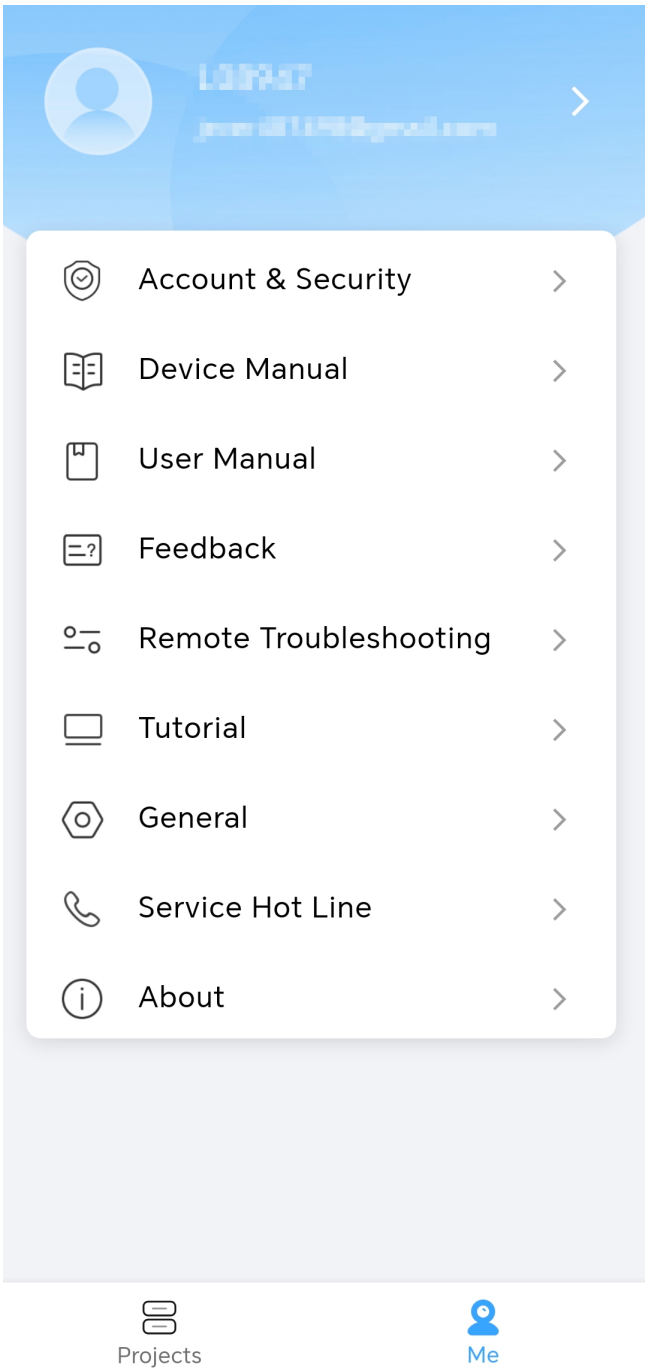
Tap > **Notification Type**. Select alarm type(s) and service type to push as needed and then save.



12 Me

On the **Me** page, you can tap your user icon to:

- Change password
- Change mobile phone number
- Adjust general settings
- View device manual
- View new user tutorial
- Generate remote troubleshooting authorization code



12.1 Basic Information

1. Tap **Me** > **Account Information**.
2. On the **My Profile** page, you can:
   - Change username: Tap your username, enter the new username, and then tap ✓ in the top right corner.
   - Change mobile phone number: Tap the mobile phone number, and then tap **Verify**. A verification code will be sent to the current mobile phone number. Enter the code you have received, and then tap **Next**. Enter your new mobile phone number, and then tap **Verify**. Another verification code will be sent to the new mobile phone number. Enter the verification code, and then tap **Complete** to finish the process.
   - Log out: Tap **Log Out**.

12.2 Account and Security

You can change your account password and cancel your account.

Change Password

1. Tap **Me** > **Account & Security** > **Change Password**.
2. Enter the old password, and then tap **Next**.
3. Enter and confirm the new password, and then tap **Finish**.

Cancel Account

1. Tap **Me** > **Account & Security** > **Cancel Account**.
2. After you have read the statement and confirmed that the account cancellation conditions have been met, tap **Request to Cancel Account**.

12.3 Device Manual

Tap **Me** > **Device Manual** to read the camera quick guide (for mounting information) and user manual (for configuration instructions).

12.4 User Manual

Tap **Me** > **User Manual** to view the app's function and operation guide.

12.5 Feedback

Tap **Me** > **Feedback**. Fill in the issue description and contact information, and send them to our technical support via email or social media apps. We will follow up and handle your feedback accordingly.

12.6 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.

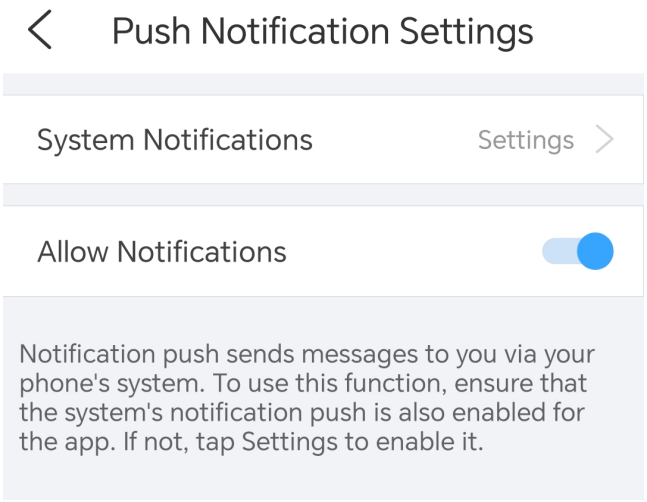
12.7 Tutorial

Tap **Me** > **Tutorial** to view the tutorial video for quick start.

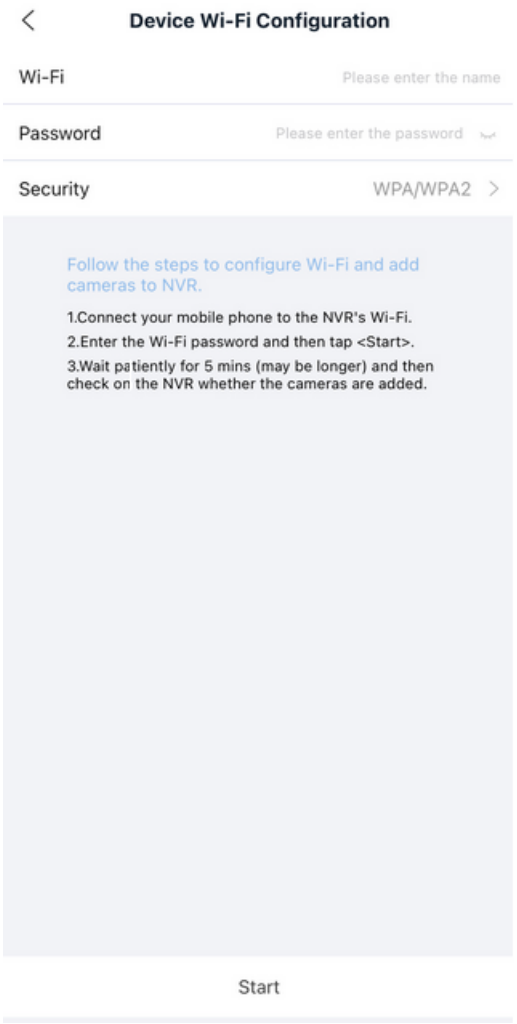
12.8 General Settings

1. Tap **Me** > **General**.
2. Adjust the general settings. The settings are described below.

- Push notification settings: Set whether to allow system notifications and whether to receive system notification push.

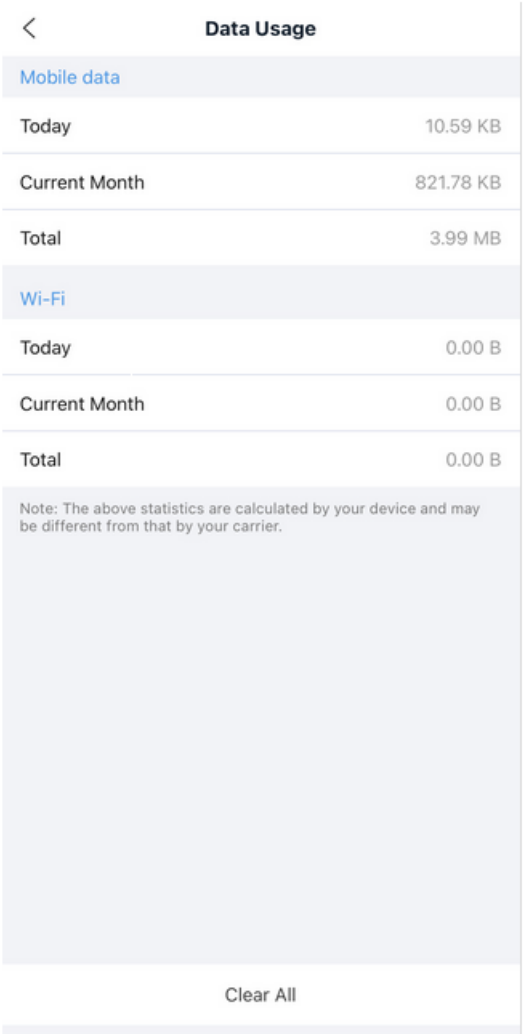


- Use device time zone: When enabled, alarms and recording playback will use the time of the device. When disabled, alarm notification and playback will use the time of your mobile phone.
- Temperature unit: Choose Celsius (°C) or Fahrenheit (°F).
- Password protection: Sets whether a password is required to open the app, including no password, pin, and pattern.
- Pause video automatically: When enabled, the app will automatically pause video if you do nothing during a certain length of time. When disabled, the app will not pause video automatically.
- Optimize video fluency: When enabled, video is smoother but may be delayed. When disabled, the delay is shorter but the video may stutter.
- Device Wi-Fi configuration: Used to add a camera to an NVR by connecting the camera to the NVR's Wi-Fi network.



Note: Only certain IPC and NVR models support this feature.

- Data usage: Allows you to view the data usage of the app, including cellular data and Wi-Fi data, displayed by day, month, and total. You can tap **Clear All** to clear the current statistics and start again.



12.9 Service Hot Line

Tap **Me** > **Service Hot Line** to view and dial the customer service hot line number.

12.10 About

Tap **Me** > **About** to view the app version, check for updates, participate in user experience program, view service agreement and privacy policy.

After tapping **User Experience Program**, you can enable **Logs** and then tap **Send** to send operation logs to maintenance engineers for troubleshooting and technical support.