Video Intercom Deployment Guide

V1.2

Zhejiang Uniview Technologies Co., Ltd.

Contents

uniview

1 Introduction

1.1 Product Overview

OEI-371S-H-W/OEI-372S-H-W indoor station is a terminal in the digital building intercom system, with functions of video intercom, security alarm, network camera monitoring, etc., providing a safe and comfortable living environment for residents. It can be widely used in building systems such as smart communities, public security, and parks.

OEU-201S-HMK-W is a terminal in the digital building intercom system, with functions of video intercom, security alarm, and video surveillance, providing a safe and comfortable living environment for residents. It can be widely used in villa residential building system.

1.2 Installation

For product installation, please see the corresponding quick guide as below.

3101C1HS-UNV-
OEI-371S-H-W-人
Indoor Station

3101C1LF-UNV-O
EU-201B-HMK-W
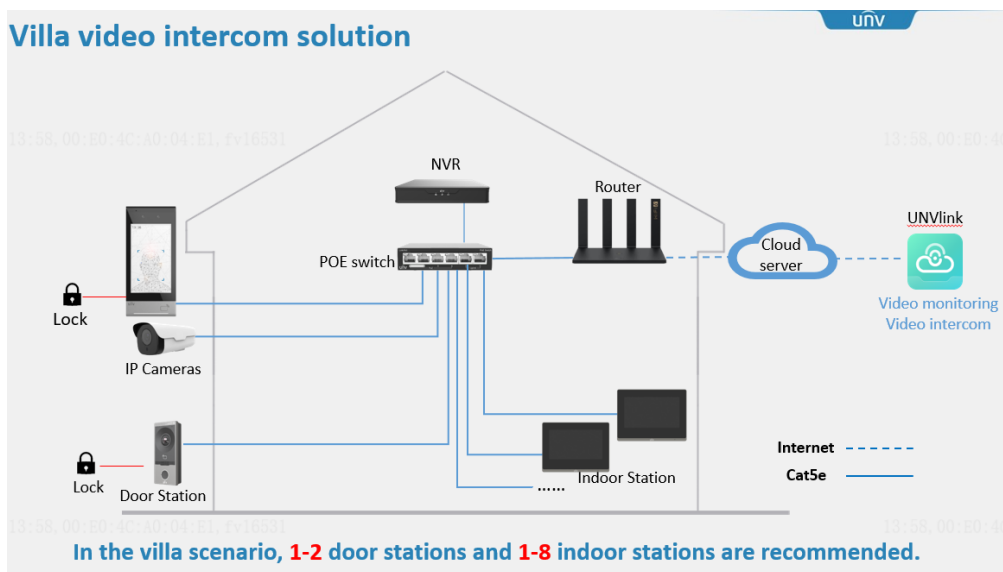Door Station

1.3 Networking

1.3.1 Device

The video intercom function involves such devices as OEI-371S-H-W/OEI-372S-H-W indoor station, PoE switch, face recognition access control terminal (hereinafter as "face recognition terminal"), door station, network camera, router, and NVR.

1.3.2 Network Environment Setup

After the devices are ready, connect them as shown in the diagram below.

Figure 1-1 Video Intercom Product Network Environment

NOTE!

- A 12V power can be used in indoor station, outdoor station (face recognition access control terminal/door station), and network camera.
- The indoor station can connect to power via the PoE interface.

1.3.3　Indoor Station Home Screen

The indoor station starts automatically after power-on, and the home screen appears. The home screen shows the current time (settable on the Web interface) and buttons including Lock Screen, Do Not Disturb, Live View, Call, Message, and Settings.

Figure 1-2 Indoor Station Home Screen
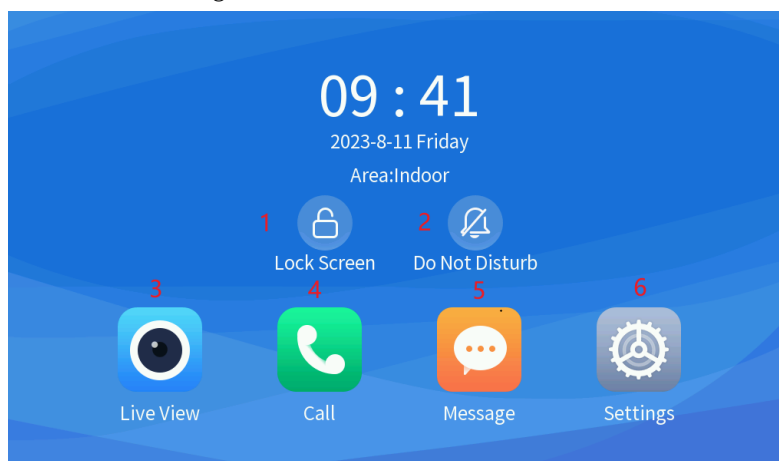
1. Lock Screen: Tap the **Lock Screen** button to lock the screen; Tap anywhere else on the screen to unlock.

By default, the screen needs to be locked manually. It can be also locked automatically.

2. Do Not Disturb: When **Do Not Disturb** is on, the indoor station does not sound when a call comes in, but the call remains on the screen until it is answered or ended by the caller. By default, this function is disabled.

3. Live View: When the indoor station is connected to the outdoor station or network camera, you can view live video on its screen.

4. Call: Used to call other extensions in the same room by inputting the corresponding number on the indoor station. You can also view the calling records.

5. Message: It is used to view the snapshot records from the live view.

6. Setting: The indoor station's screen supports sounds, display, time, password, Wi-Fi, and activation configurations.

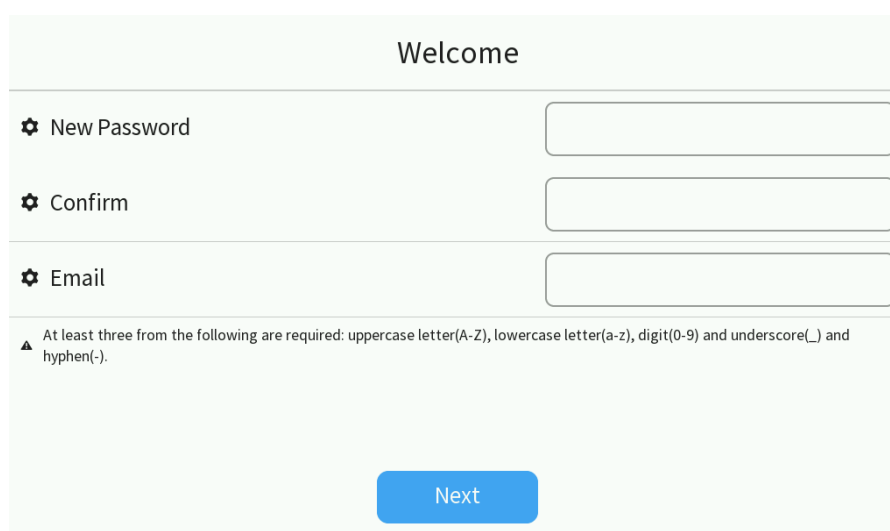# 2 Video Intercom Configuration

The indoor station can realize video intercom, remote door opening, live view, and other functions with the connected outdoor station and network camera. It can also communicate with other extensions in the same room. The following describes how to configure on both the indoor station and outdoor station.

After configurations are complete, the indoor station and outdoor station can realize functions including calling, live view, and remote door opening.

2.1 Indoor Station Wizard Configuration

The wizard page appears after your first login. You can follow the wizard to complete the first deployment configuration.

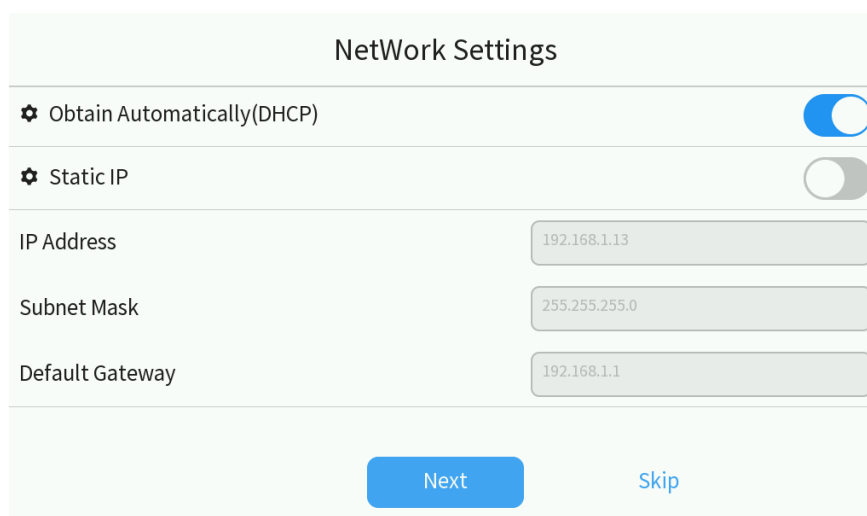Figure 2-1 Password and Email Settings

Log in to the device screen with the default username and password (**admin**/**123456**), and then the **Welcome** screen appears. Set the new password, and enter your email address so as to retrieve the activation password if you forgot the password.
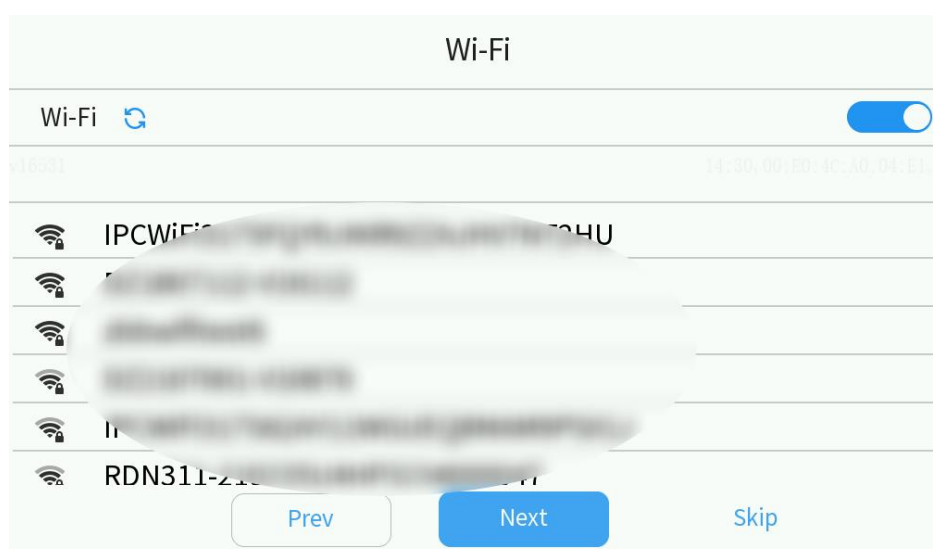
Figure 2-2 Network Settings

1. Network settings: **Obtain Automatically (DHCP)** is enabled by default, which will assign the indoor station an IP address automatically. You can skip the step if you want to keep the default configuration.

2. If you want to set a fixed IP address manually for long term use, enable **Static IP**, and then set the IP address, subnet mask, and default gateway.

3. The indoor station's IP address is **192.168.1.13** by default. When configuring a static IP for the first time, the IP address shows **192.168.1.14** by default to prevent IP conflicts during installation, which can be changed as needed.

> **NOTE!**
> The IP of outdoor station and network camera must be on the same IP segment as that of the indoor station, and then the video intercom function can be available. You can search for IP addresses in different network segments.

Figure 2-3 Wi-Fi Search

You can connect the network on the **Wi-Fi** screen. The Wi-Fi function is disabled by default. If you want to connect to Wi-Fi, enable **Wi-Fi**; otherwise, tap **Skip** to proceed.
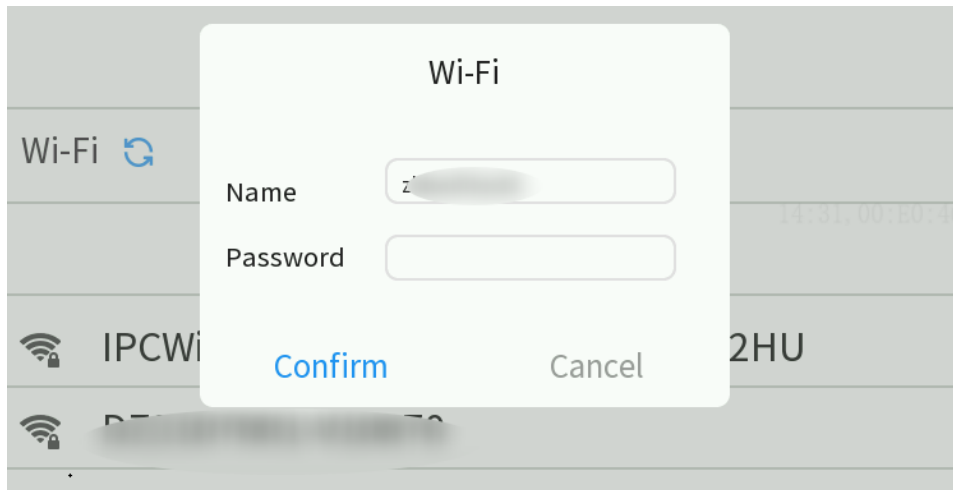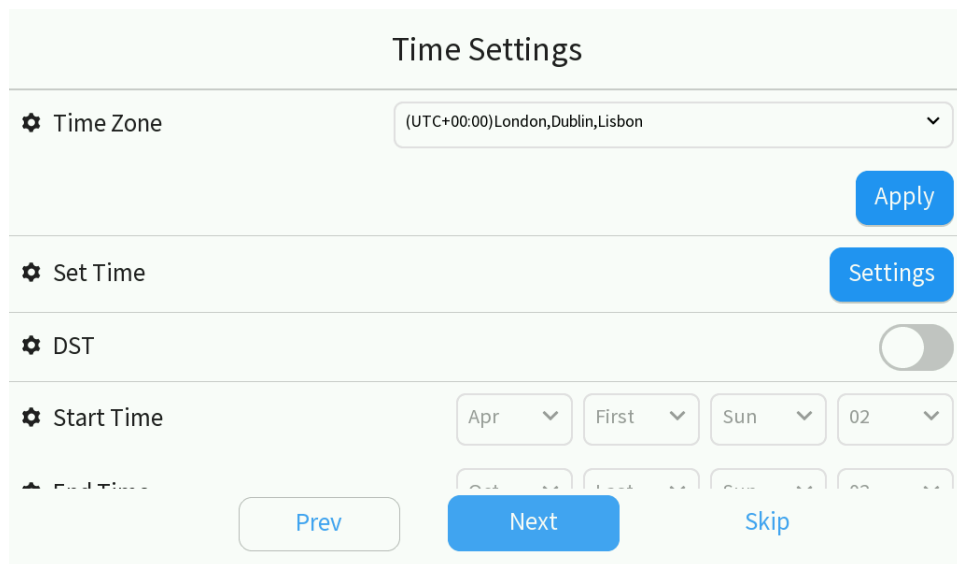
Figure 2-4 Wi-Fi Connection

Figure 2-5 Time Settings (Time Zone/DST/Time Sync)

Set time parameters, including time zone, time, and DST. If you do not need to set time, tap **Skip** to proceed.

Figure 2-6 Device Type and Location

The indoor station type includes main indoor station and extension (the extension can realize most of functions after binding to the main indoor station). The default location information of the main indoor station is District 1, Building 1, Unit 1, Room 1, extension 0 (cannot be modified); the extension location is consistent with the associated main indoor station except the extension number.

NOTE!

- The outdoor station (face recognition terminal and door station) is located at District 1, Building 1, Unit 1 by default.

- The face recognition access control terminal can call the indoor station by entering the corresponding room number on the screen. Press the physical button on the door station, and then the device that is located at Building 1, Unit 1, Room 1 will be called by default.

Figure 2-7 Device Management

1. Refresh the device management list (it will be refreshed automatically when you enter the screen).

2. Select the video intercom devices (door station/indoor station extension) you want to relate.

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3. Change the device's IP address.

4. Change the device location.

5. Confirm to relate the device to the indoor station.


![NOTE icon] **NOTE!**

- On the **Device Management** screen, the outdoor station and indoor station can be searched and their IP addresses can be changed in different network segments

- The devices must be on the same network segment and have the same room in order to communicate with each other.

- It takes 1 minute to save the related devices. If the indoor station restarts during the one minute, the bound devices cannot be saved.

2.2　Indoor Station Manual Configuration

1. After the wizard is complete or skipped, the indoor station's home screen appears after power-on.

2. Go to **Setting** > **Activation Config**, tap **Enter project password**，and enter the activation password (initial password is **123456**).

3. Enter the **Indoor Station** screen, and then set network and location parameters.

Figure 2-8 Activation Config
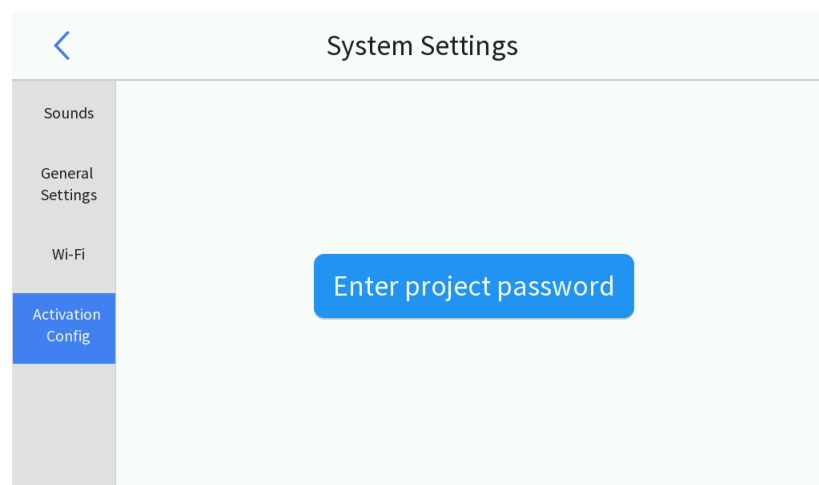
4. Configure network parameters.

(1) You can use DHCP to assign a dynamic IP address or set a static IP address.

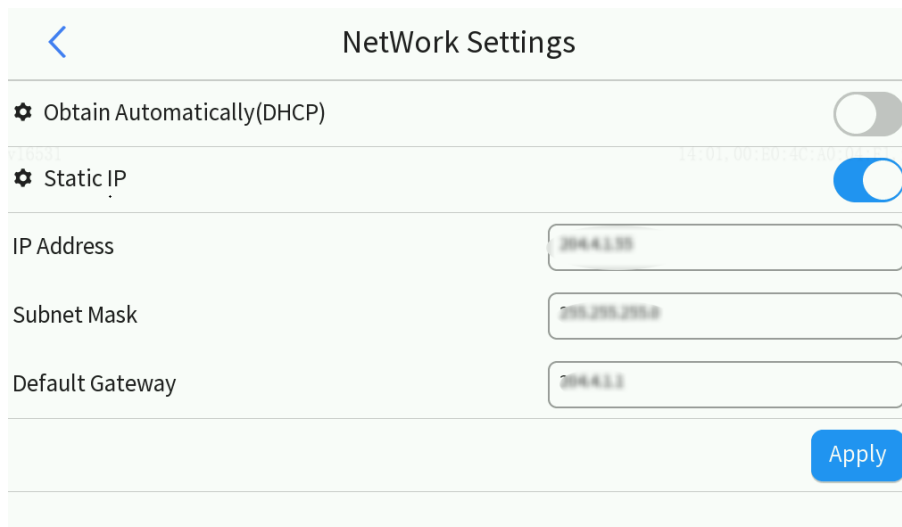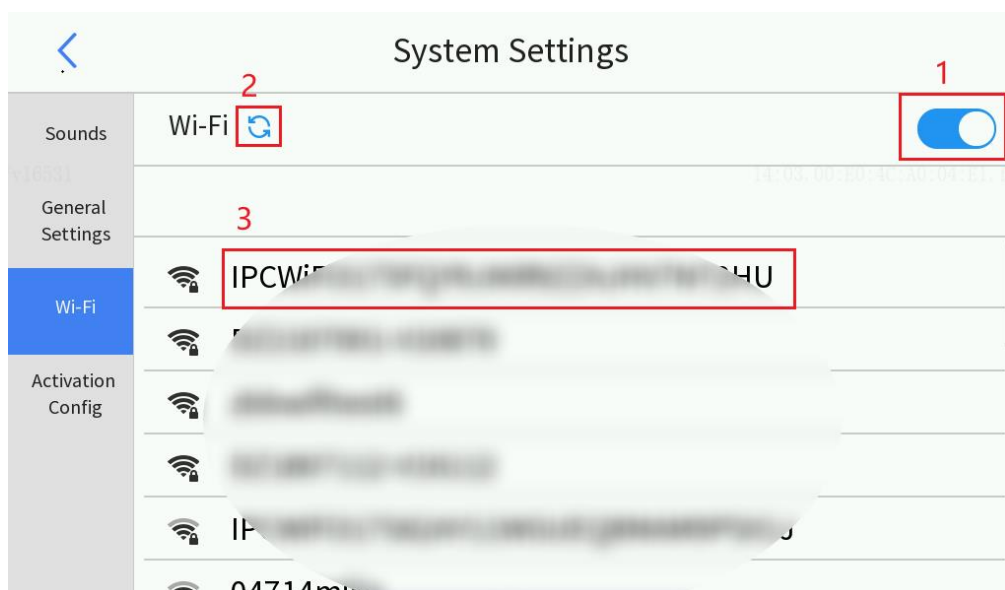Figure 2-9 Indoor Station Config
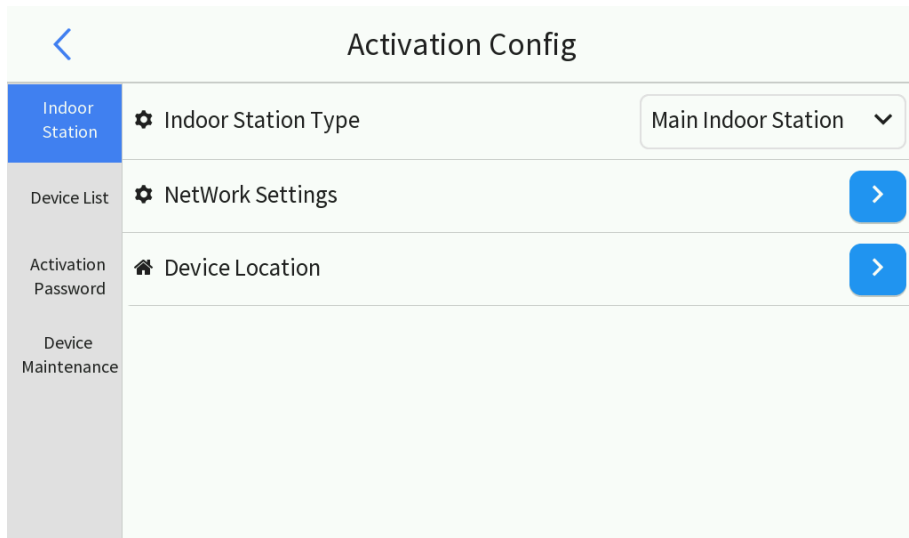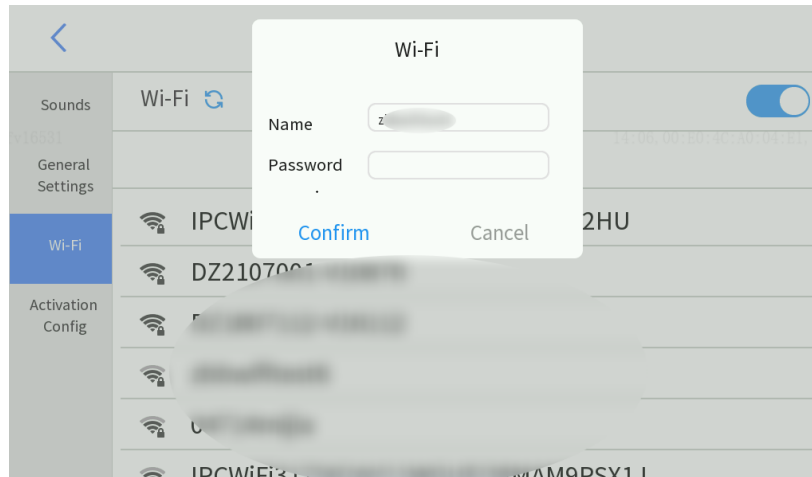

Figure 2-10 Network Settings

Figure 2-11 Wi-Fi Search

(2) Connect to Wi-Fi. 1. Enter the **Wi-Fi** screen and enable **Wi-Fi**. 2. The list will be refreshed automatically after 3 to 6 seconds. You can also tap [icon] to refresh. 3. Select a Wi-Fi to connect.

Figure 2-12 Wi-Fi Connection

5. Device location: Set the indoor station's location information including residential compound name, district number, building number, unit number, and room number, which should be consistent with outdoor station's location.

Figure 2-13 Indoor Station Device Location
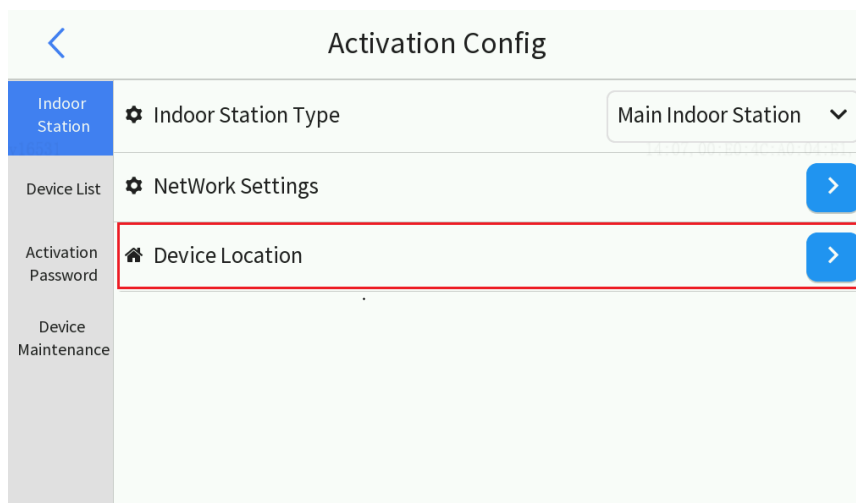
Figure 2-14 Main Indoor Station's Device Location

6. Tap **Apply** to save the settings.

Figure 2-15 Extension Device Location

> **NOTE!**
>
> On the **Device Location** screen of the extension, only the extension number can be changed. Other location information will be changed automatically with the main indoor station.

7. Connect devices: After configuring indoor station information, you need to connect the indoor station to the outdoor station, and connect the extension to the main indoor station as below.

> **NOTE!**
>
> The binding function is only available to the main indoor station mode. Calling records between extensions and other devices can be searched from the main indoor station.

Method 1: Go to **Device List** > **Device Management**, and bind devices to the indoor station.

(1) Refresh the device list.

(2) Select the device you want to relate (outdoor station/indoor station).

(3) Relate the device.

Figure 2-16 Device List
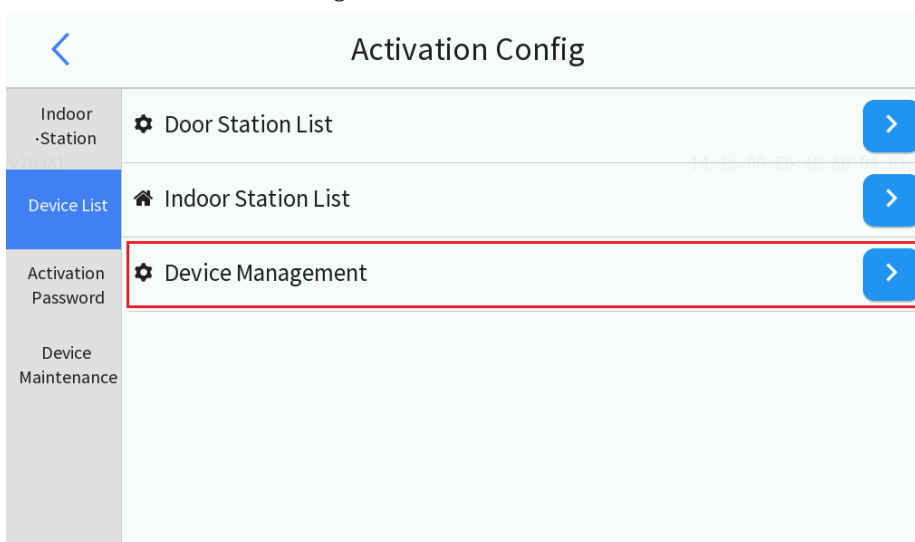
Figure 2-17 Device Management
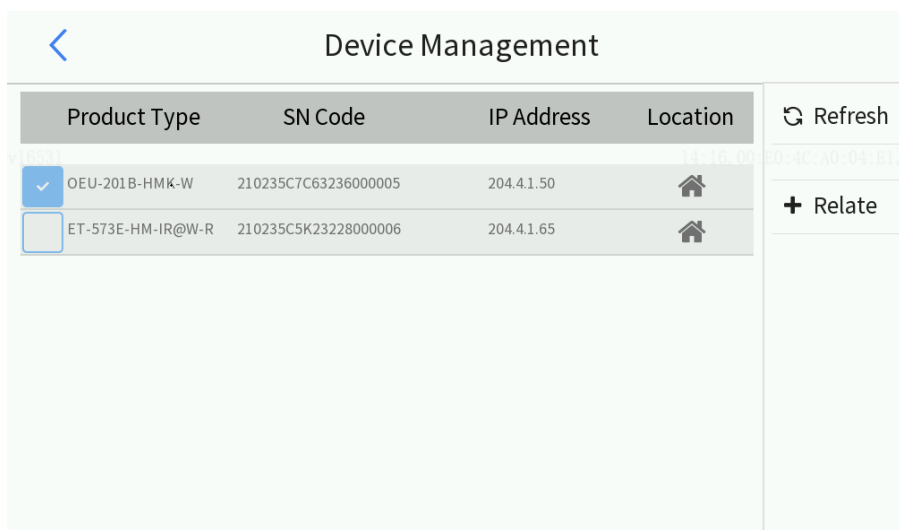
Method 2: Enter the **Door Station List** screen, tap **Add**, and set the device information as below.
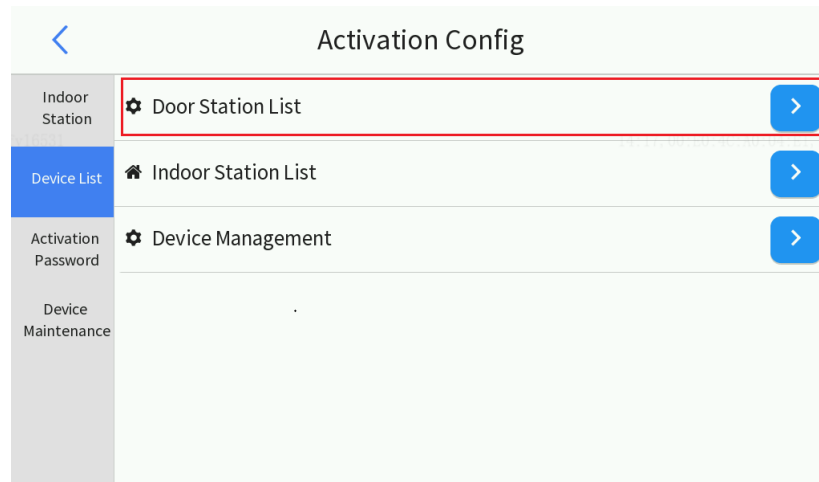
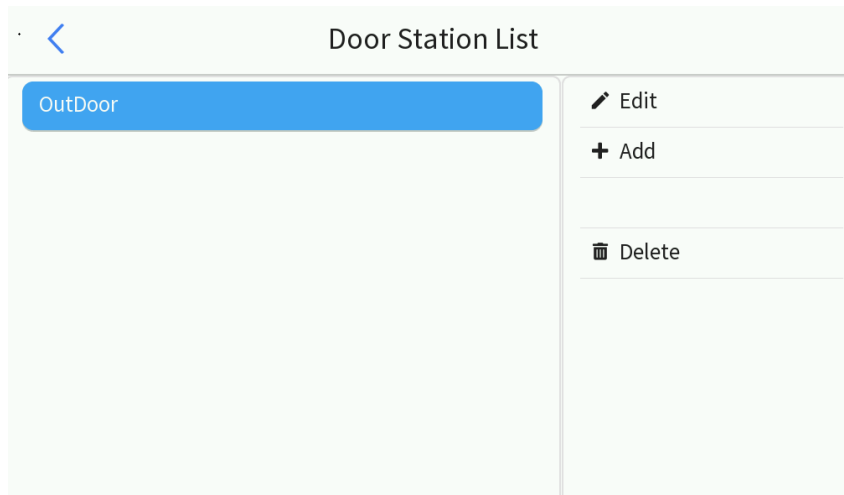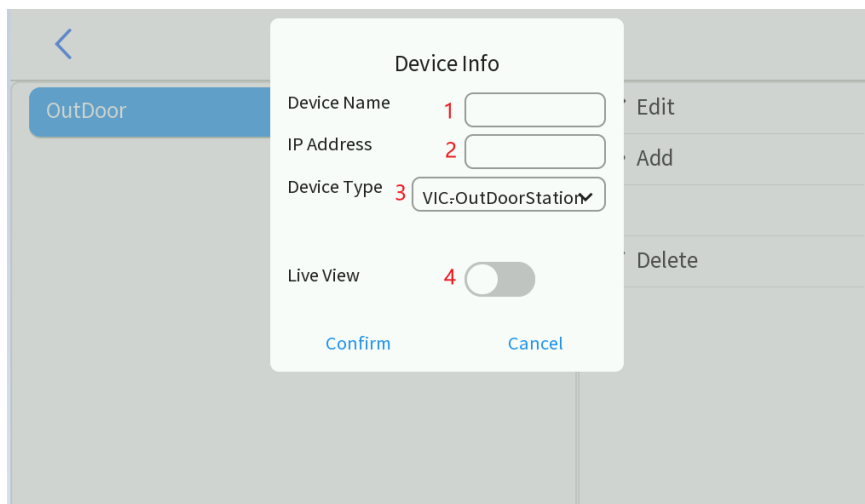Figure 2-18 Door Station List

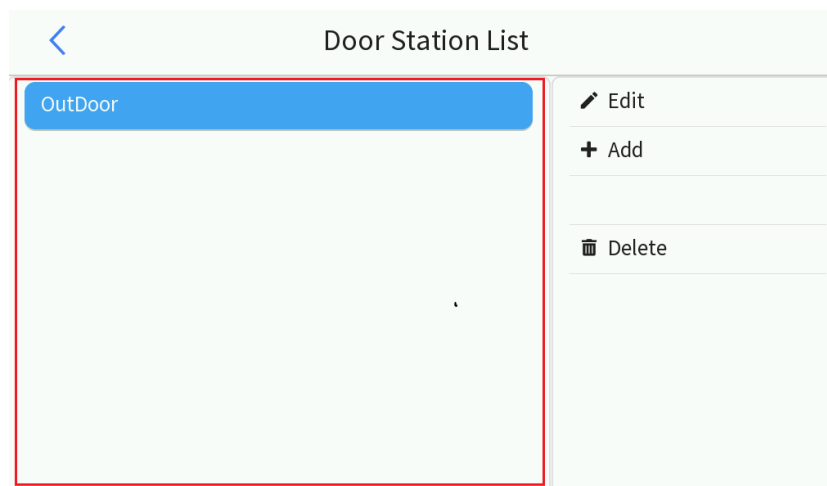Figure 2-19 Door Station List

Figure 2-20 Device Info

(1) Enter the device name (optional).

(2) Enter the IP address (required).

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(3) Select the device type (**VIC-OutDoorStation, IPC**).
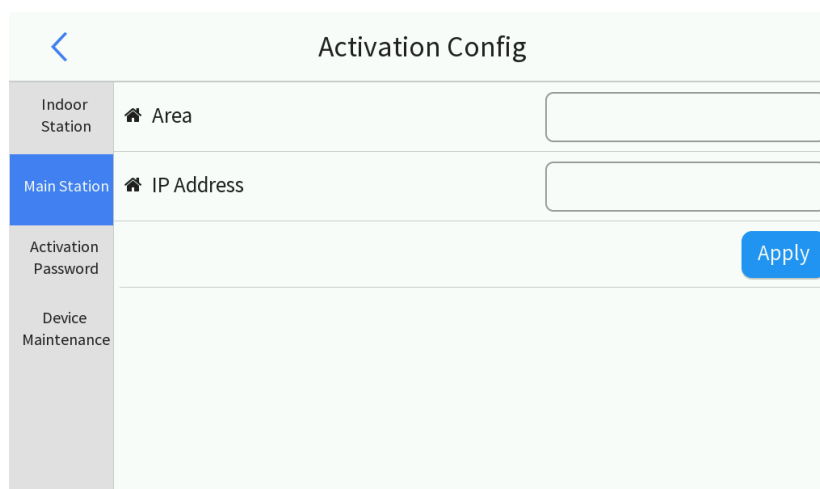
(4) Enable **Live View**.

To bind an IPC, see 2.4 Network Camera Configuration for details.

Figure 2-21 Bound Devices

The bound devices (outdoor stations and network cameras) will be displayed in the red box above. Tap **Edit** to view the device's IP address.

Figure 2-22 Bind to Main Indoor Station on Extension

To bind the main indoor station on the extension's screen, enter the **Main Station** screen of the extension, set the name of the main station you want to show on the extension, enter the IP address of the main station, and then tap **Apply**.
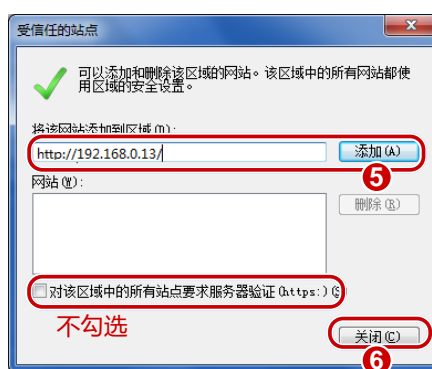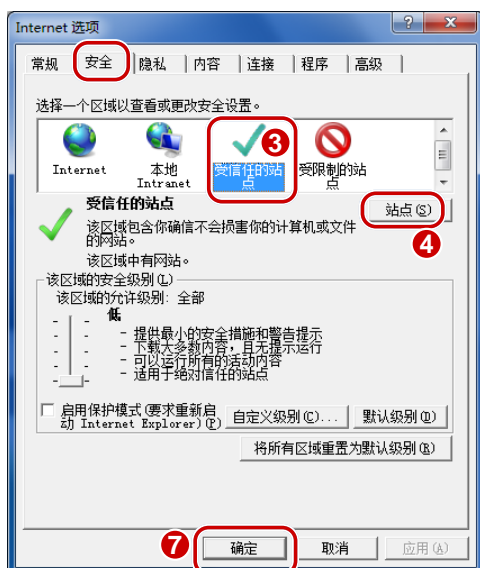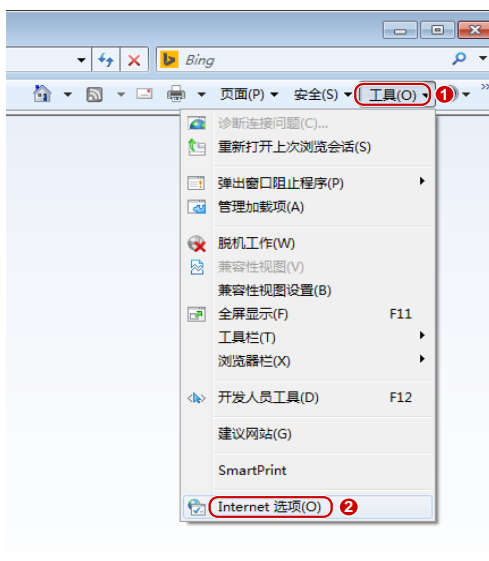
2.3　Outdoor Station Configuration
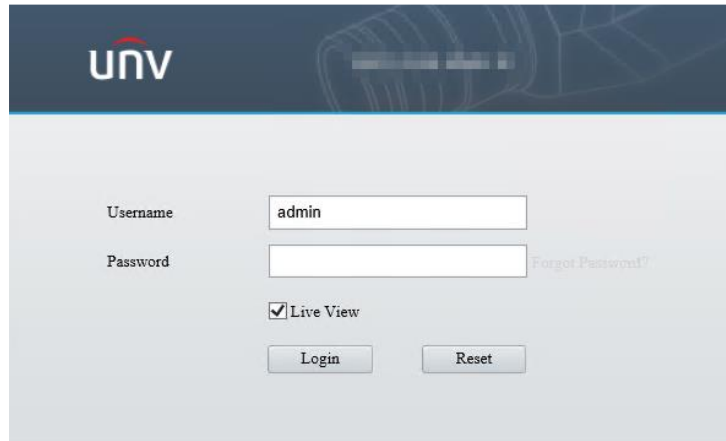
2.3.1　Door Station

Configure the network: Log in to the Web interface.

1. Before login, make sure the client computer and the door station is connected via network, and the Web browser is IE 9.0 or higher.

2. Add the door station's IP to trusted sites.

3. Enter the door station's IP address (**192.168.1.13** by default) in the address bar, and then press **Enter**.

4. Enter the username and password, and then click **Login**.

5. The default username/password is **admin**/**123456** (If the activation password has been changed, you need to use the new password to log in). A prompt will be displayed to change the default password at your first login.

(1) At your first login, you need to follow the on-screen instructions to install the latest plug-in; otherwise, you cannot view the live video.

Figure 2-23 Plug-in Installation Prompt

(2) Enter the username and password (**admin**/**123456** by default).

(3) (Optional) Select **Live View**, and then the live view will start automatically.

(4) Click **Login**, and the door station displays the **Live View** interface.

(5) After the first login, the **Change Password** dialog box appears, in which you must set a strong password and enter your email address so as to receive the security code if you forgot the password (or change the password on the interface). Then, use the new password to log in again.

Door station password: 9 to 32 characters, including digits, letters, and special characters.
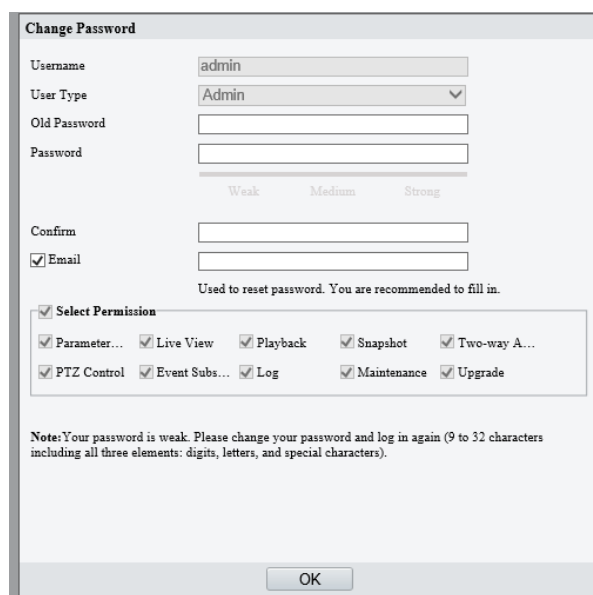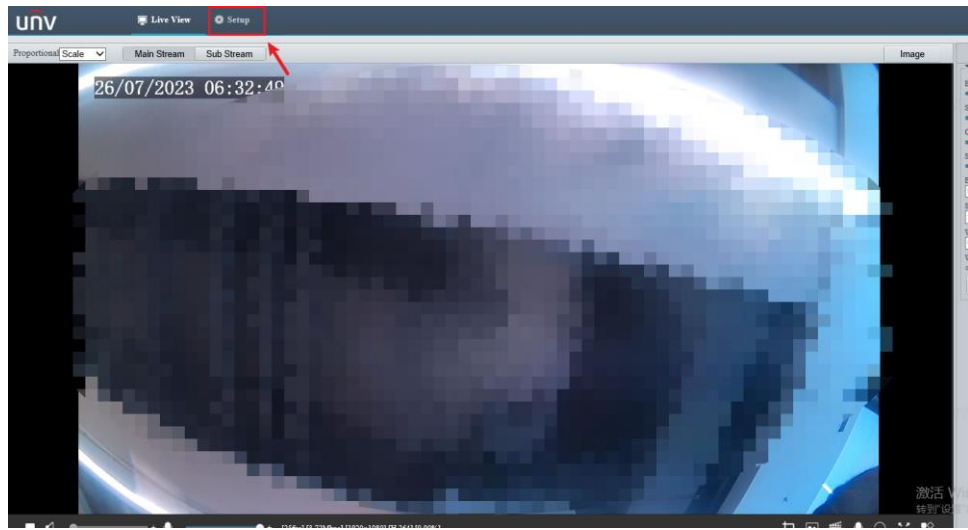
Figure 2-24 Change Password and Bind Email

Figure 2-25 Live View

To use a wired network, set **Obtain IP Address** to **Static** and then set a static IP address as shown below.

To use a wireless network, connect to Wi-Fi as shown below.

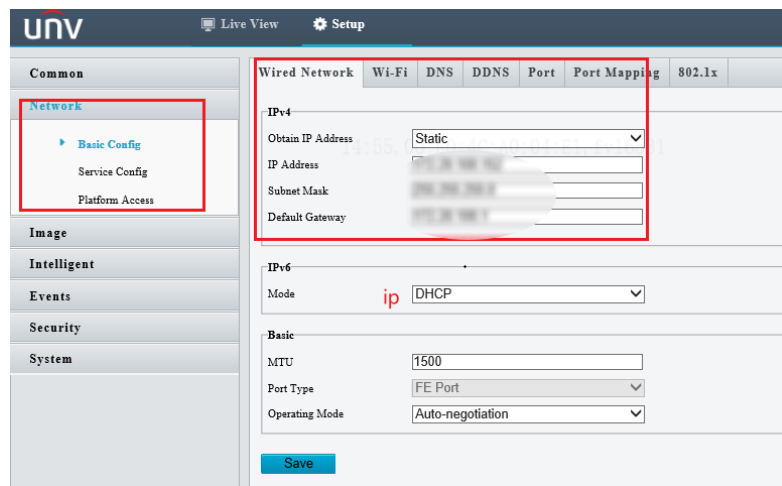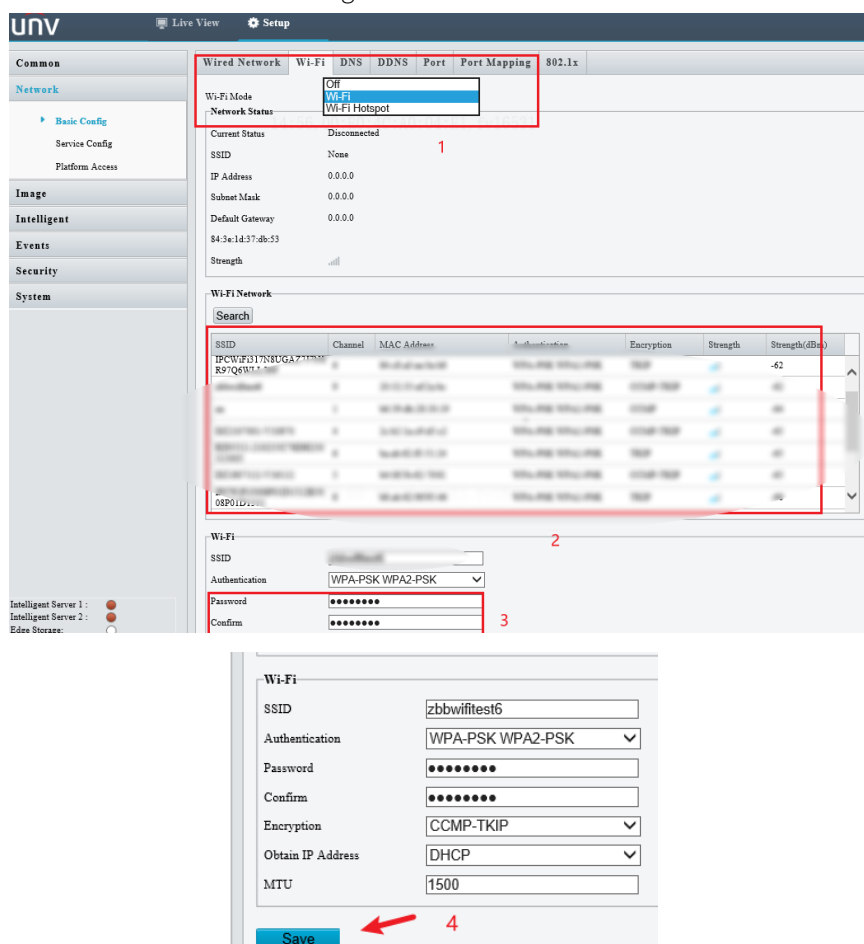Figure 2-26 Wired Network

Figure 2-27 Wi-Fi

1. Set **Wi-Fi Mode** to **Wi-Fi**.

2. Select the Wi-Fi to connect from the list.

3. Enter the Wi-Fi password and confirm the password.

4. Click **Save**, and then the Wi-Fi can be connected.

> NOTE!
>
> The IP of outdoor station and network camera must be on the same IP segment as that of the indoor station. To use a wireless network, the indoor station should connect to a same Wi-Fi as the door station.

2.3.2 Face Recognition Access Control Terminal
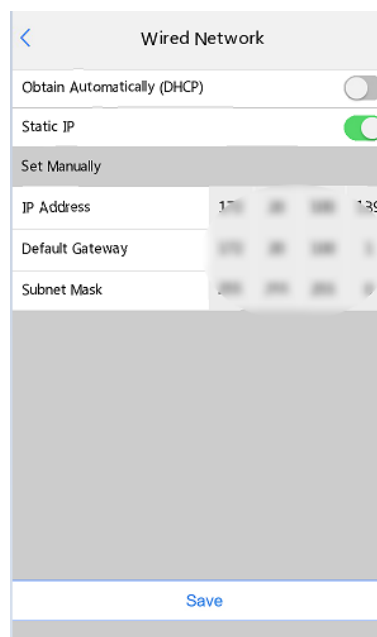
Network settings

Press and hold for 3s on the screen, and input the activation password. On the **Activation Config** screen, tap **Communication Settings**, change the device's IP address, and then tap **Save**.

Figure 2-28 Activation Config Screen
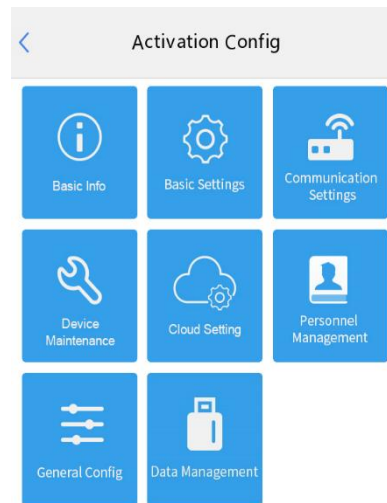
Set a wired Network. To set a fixed IP address for long term use, enable **Static IP**.

Figure 2-29 Wired Network

Location and call protocol settings:

On the device's **Activation Config** screen, go to **Basic Settings** > **Intercom Config**.

Choose **EI-3 Series Indoor Station** for the indoor station protocol.

Device location: The building and unit information (default: 1) of the face recognition terminal should be consistent with those of the indoor station.

Figure 2-30 Intercom Config

2.4 Network Camera Configuration

To view the live video of network camera on the indoor station, you need to set the camera's sub stream to H.264 and 720P or lower, and then connect the camera to the indoor station.

Figure 2-31 Sub Stream Config

1. Log in to the camera's Web interface. See for details.

2. Set the video compression to **H.264**.

3. Set the resolution to **1280x720(720P)** or lower.

   Enter the **Door Station List** screen, tap **Add**. Set the device information as below.

Figure 2-32 Add an IPC to Indoor Station.
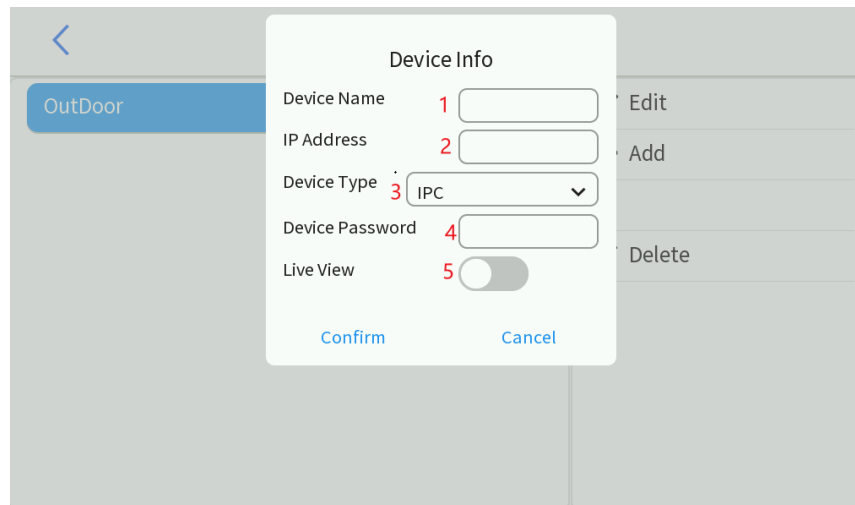
1. Enter the device name (optional).

2. Enter the IP address (required).

3. Set **Device Type** to **IPC**.

4. Enter the camera password.

5. Enable **Live View**.

3 Video Intercom Operations

3.1 Video Intercom with Door Station

After completing the video intercom configuration of indoor station and door station, press the physical button as shown below to call all connected main indoor stations and door station extensions in the same room.

3.2 Video Intercom with Face Recognition Access Control Terminal

After completing the basic settings, the devices can start video intercom. Operations are available to outdoor station and indoor station, including make calls, answer calls, door opening (door station supports 2 doors, face recognition terminal supports 1 door), and live video.

On the face recognition access control terminal screen, tap the **Call** button, enter the room number, and then press **OK** to call the corresponding indoor station.

> **NOTE!**
>
> The door station can control multiple doors, while the face recognition access control terminal can control one door. The device's calling and answering screen will show the corresponding door opening buttons based on the number of doors on the indoor station.
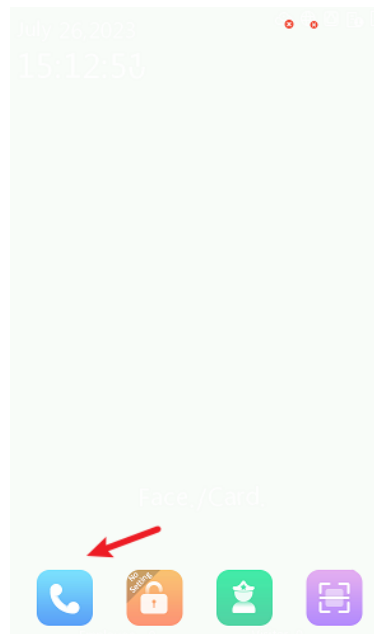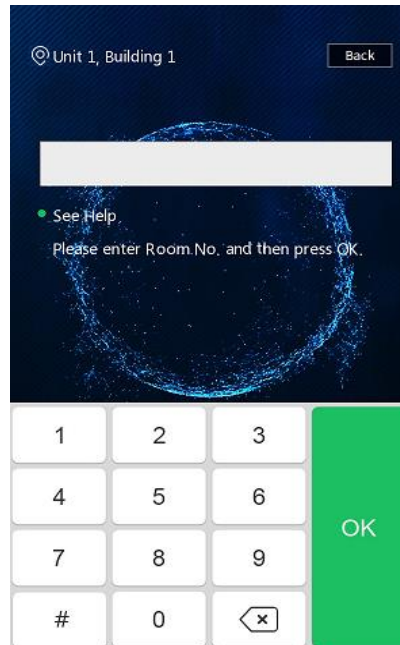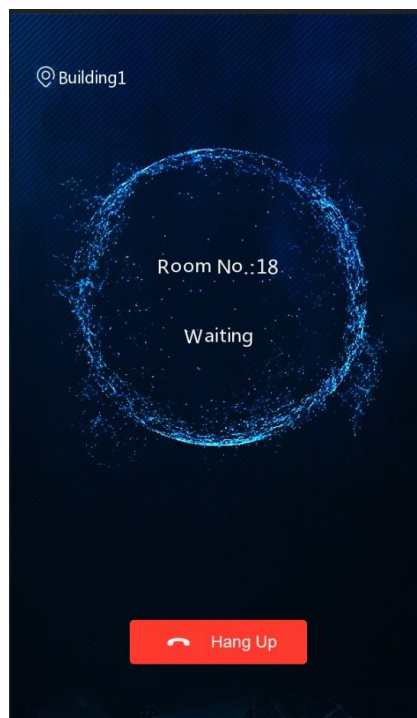
Figure 3-1 Home Screen

Figure 3-2 Dialing Screen

For example, if the room number is 18, input 18 on the screen, tap **OK**, and then the face recognition access control terminal will call all indoor stations in the room.

Figure 3-3 Calling Screen

The face recognition access control terminal screen shows a waiting status, and the indoor station screen shows an incoming call.

Figure 3-4 Indoor Station Screen Showing Incoming Call
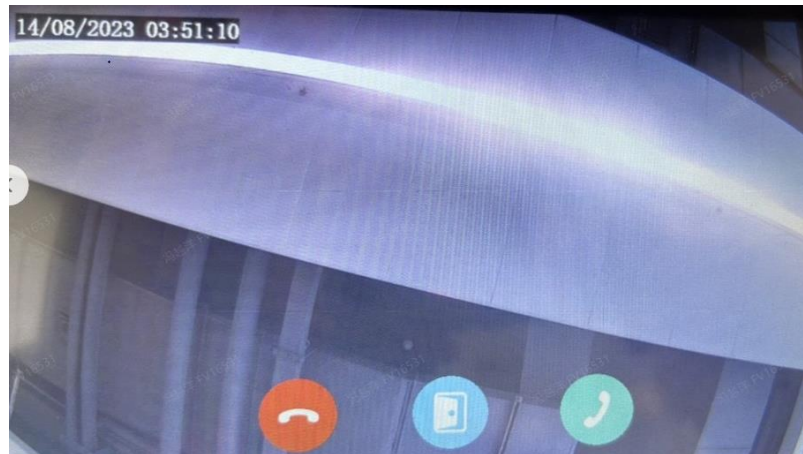
The three buttons on the screen are used to decline the call, open the door, and answer the call. To open the door, tap the **Unlock** button. To answer the call from the face recognition terminal, tap the **Answer** button.

The visual intercom terminal screen shows different status, depending on whether the indoor station answers the call.

1. The call is answered

After the call is connected, the indoor station and face recognition access control terminal screens are as shown below:

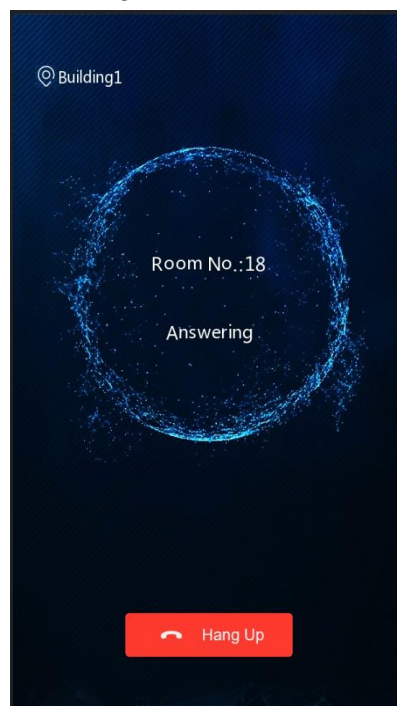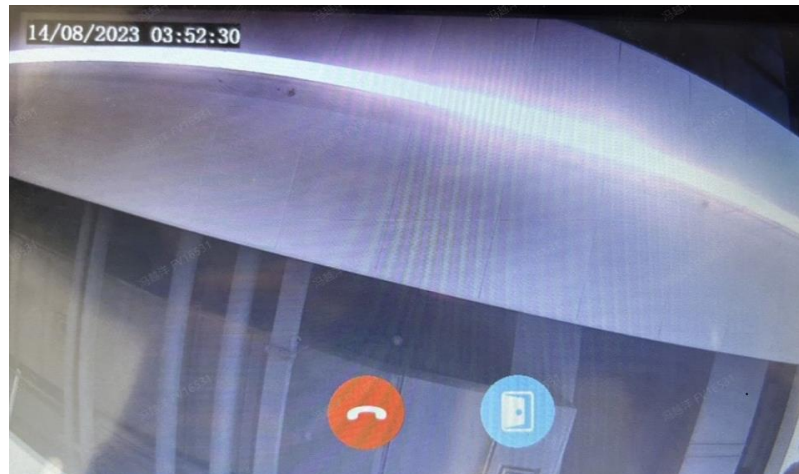Figure 3-5 Face Recognition Access Control Terminal

Figure 3-6 Indoor Station

Tap the **Hang up** button to end the call, or tap the **Unlock** button to open the door.

> **NOTE!**
>
> Currently the default length of a call is 60s. If the indoor station does not answer the call within 60s, the outdoor station automatically ends the call. The default calling duration is 60s, and the outdoor station automatically hangs up if the calling time reaches 60s.

3.3 Call Extension

Bind all extensions to a same indoor station, and set their location information to same building, unit, and room, and different extension numbers, so they can make video intercom with each other.

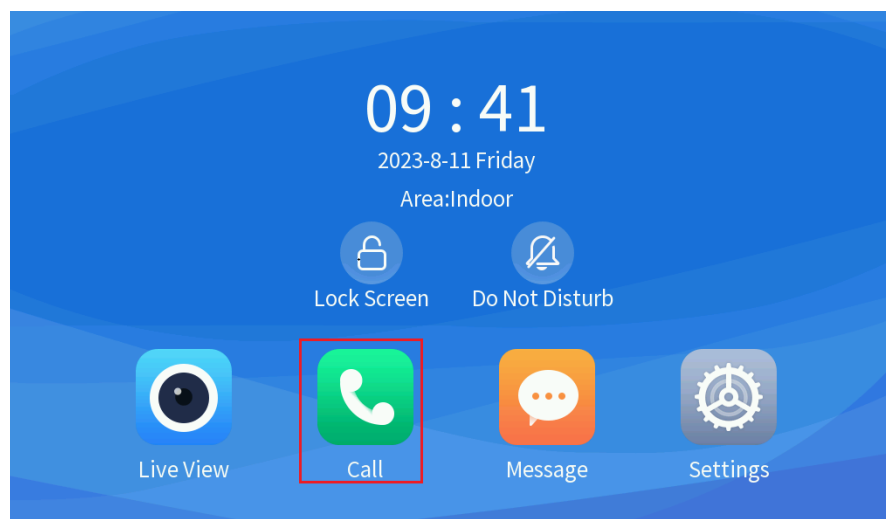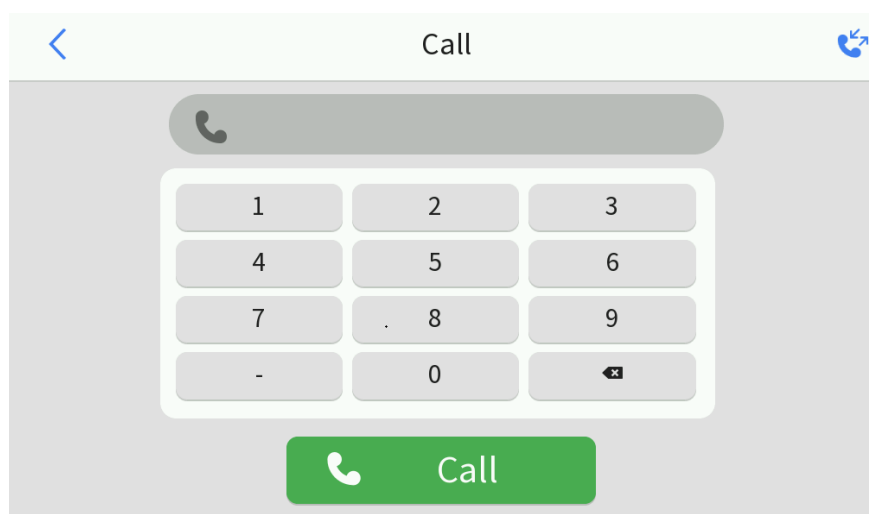Figure 3-7 Call Function of Indoor Station Extension
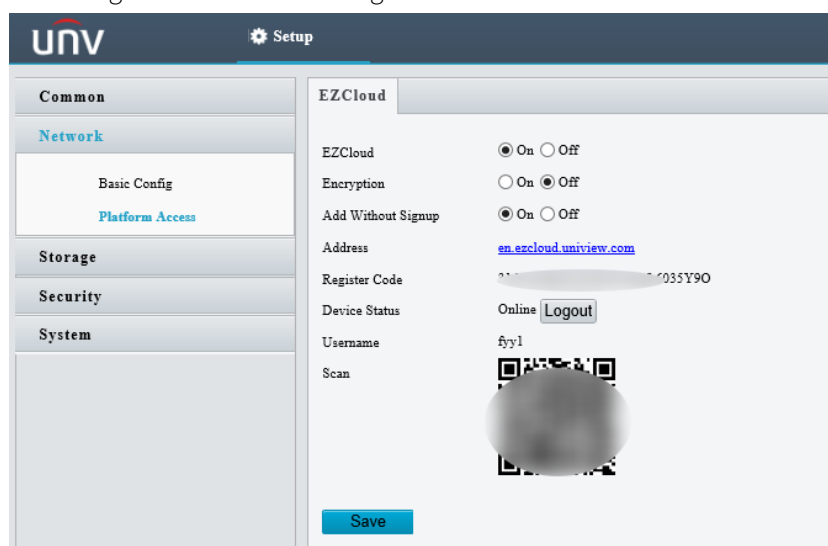
Figure 3-8 Extension Calling Screen

For example, to call the extension in a same room with the extension number of 2, you need to input 2 and then tap **Call**.

> **NOTE!**
> For the extension, the default length of a call and calling time have no limitation. The device will end the call and calling until it is hung up.

3.4 Call App

Figure 3-9 EZCloud Configuration on the Web Interface

1. After connecting the device to the network, log in to the Web interface and then configure EZCloud as shown below.

2. Check the device status. If it is online, it means that the device has been connected to EZCloud.

The register code is used to connect the device to EZCloud, which can be obtained by scanning the QR code below.

App Settings: Log in to the UNV-Link app.

25

Figure 3-10 Bind Device to App

1.

2.

3.

4.

1. Enter the login screen of app.

2. Enter the home screen of app

3. Enter the **Add Device** screen (1. Scan QR code 2. Enter the register code)

4. Enter the register code manually to add the device.
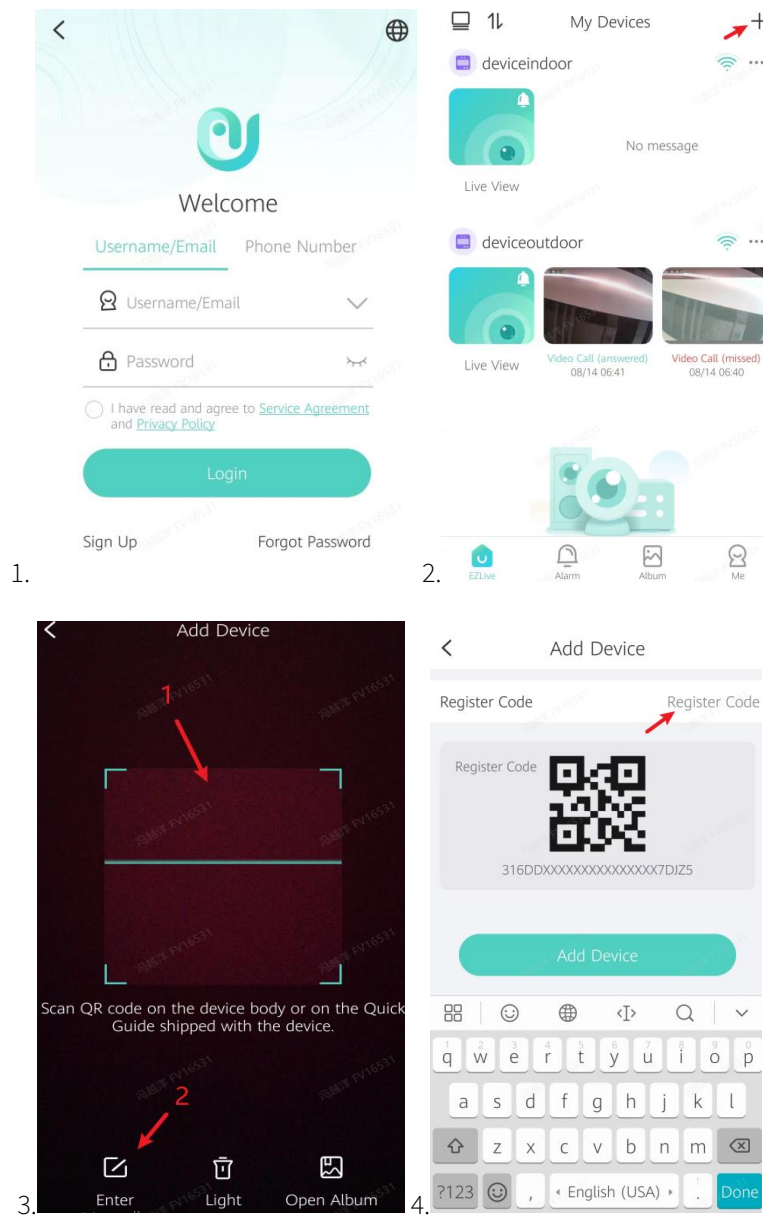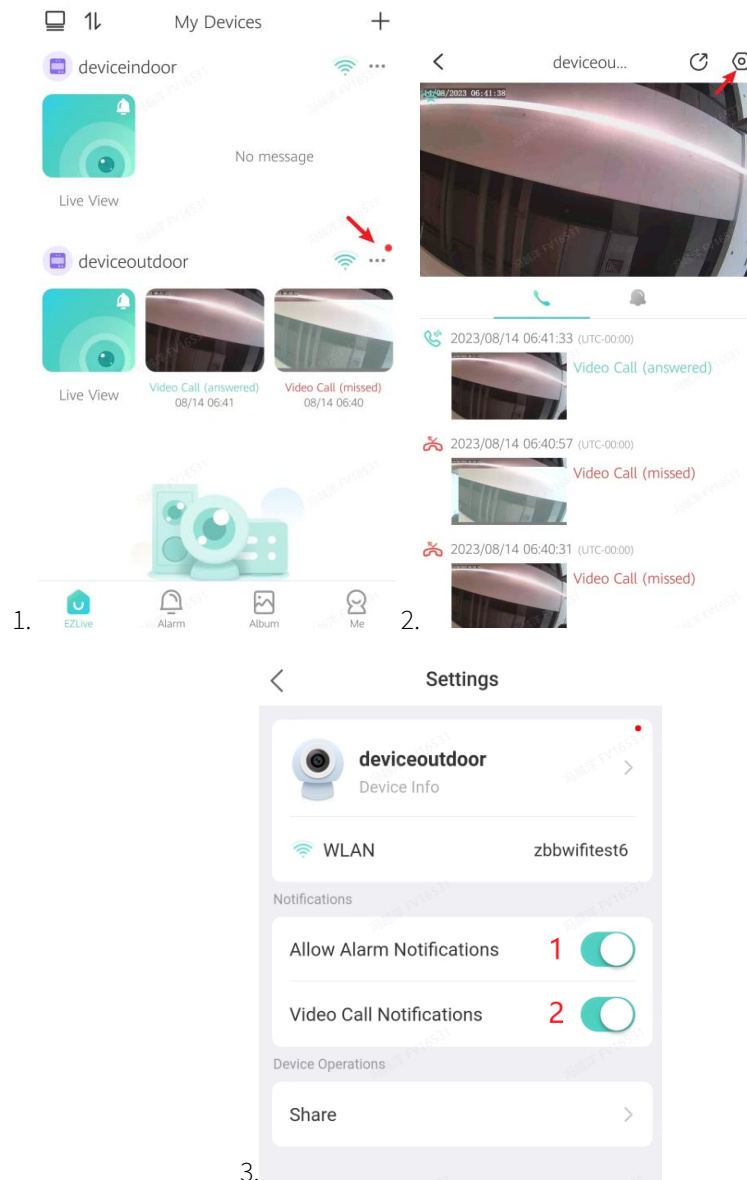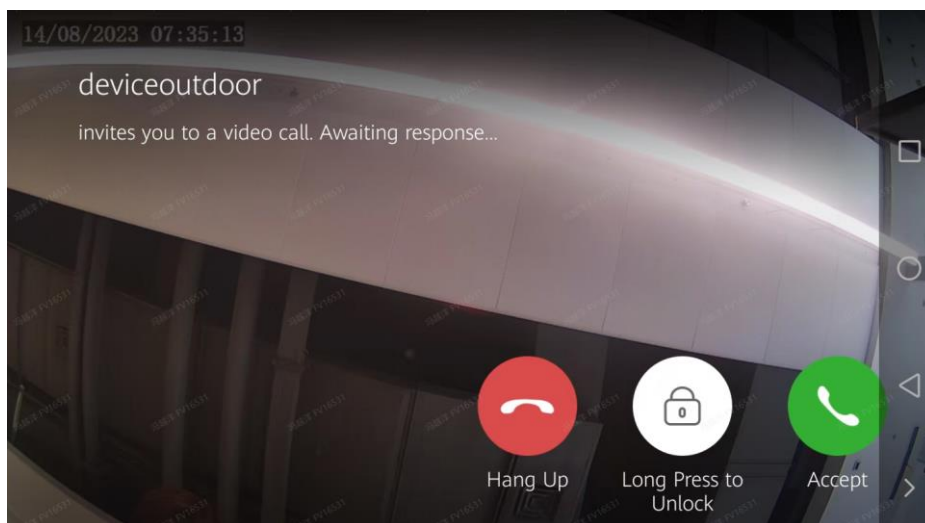
Figure 3-11 App Video Intercom Configuration

1. Enter the alarm records screen.

2. Enter the **Settings** screen.

3. 1) Enable **Allow Alarm Notifications**. 2) Enable **Video Call Notification**s.

After completing the settings, when the door station calls the indoor station, the app screen also shows an incoming call as below.

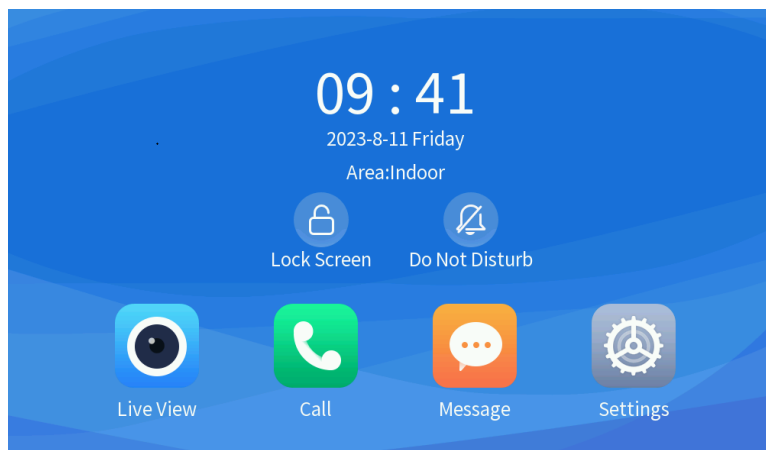Figure 3-12 App Screen Showing Incoming Call

4 Common Functions

4.1 Live View

After the indoor station is connected to the outdoor station or network camera, you can tap **Live View** on the indoor station's screen to view live video from the connected outdoor station or network camera.

Figure 4-1 Indoor Station Live View

Tap ![icon]. The live view screen appears.

By default, the right list displays the linked outdoor stations. To view the linked network cameras, enter the **Camera** tab.

- Tap the device name, and the left window will play its live video.
- The device name and the remaining play time are displayed at the top of the screen.

> **NOTE!**
>
> A 60s live video will be played by default. The screen will be automatically blacked out after 60s. To view the live video again, you need to tap the corresponding button. Snapshot and door opening functions are unavailable for the extension.
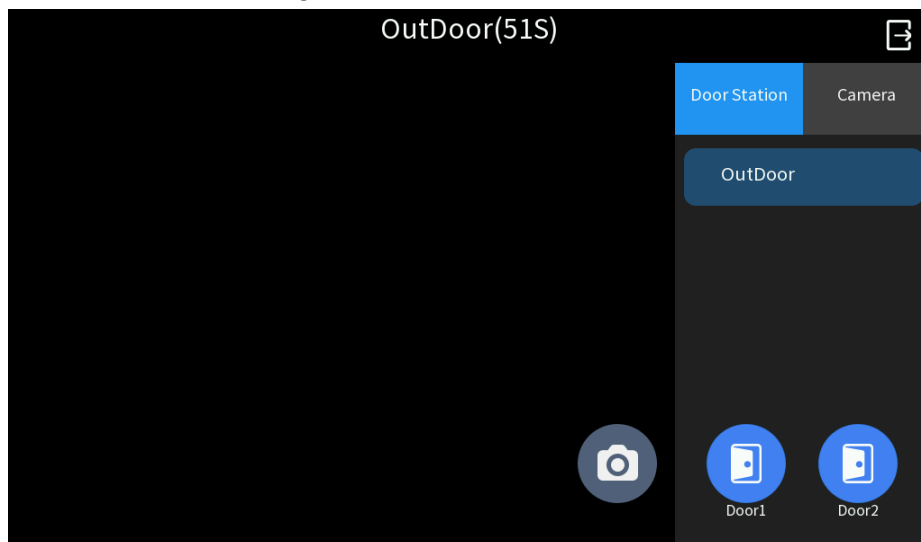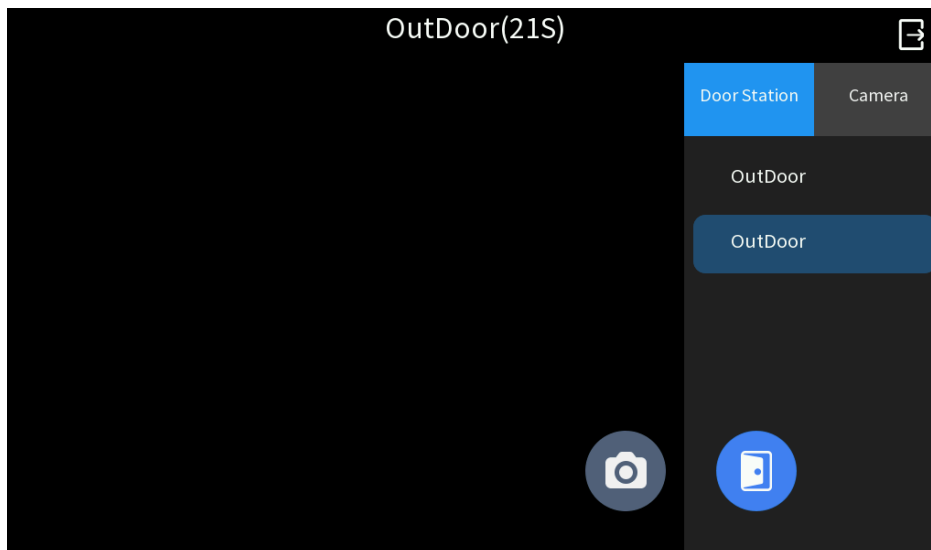

Figure 4-2 Door Station Live View


Figure 4-3 Live View of Face Recognition Access Control Terminal

- : Tap to take a snapshot for the current image. Go to **Home Screen** > **Message > Snapshot** to view the snapshot records.

- door1/door2: Tap to open the door remotely.

- : Tap to return to the home screen.

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4.2　Configuring Multiple Doors for Door Stations

Log in to the door station's Web interface. See for details.

Figure 4-4 Multiple Doors Configuration
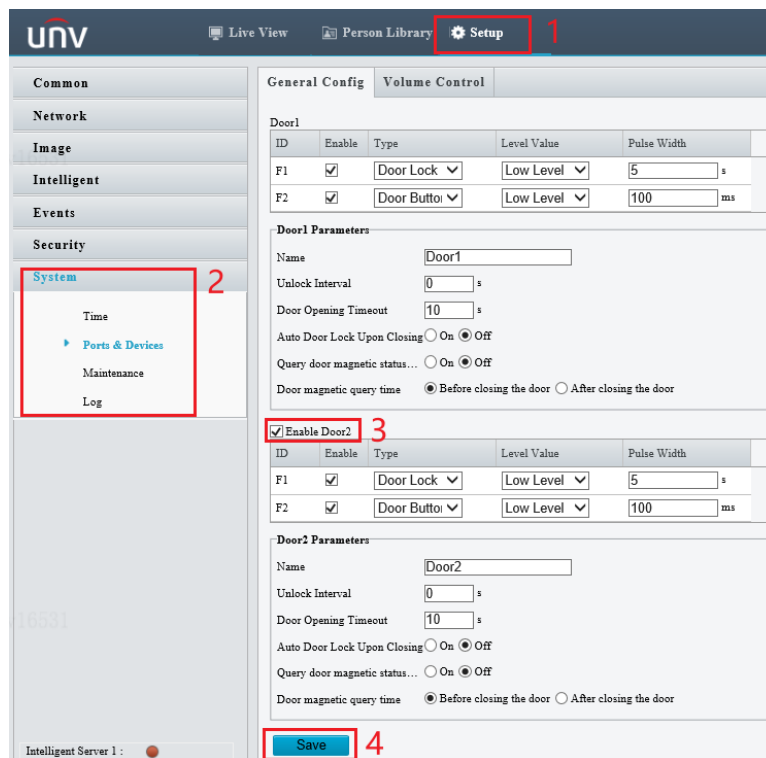
1. Enter the **Setup** menu.

2. Enter the **Ports & Devices** interface.

3. Select the **Enable Door2** check box.

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