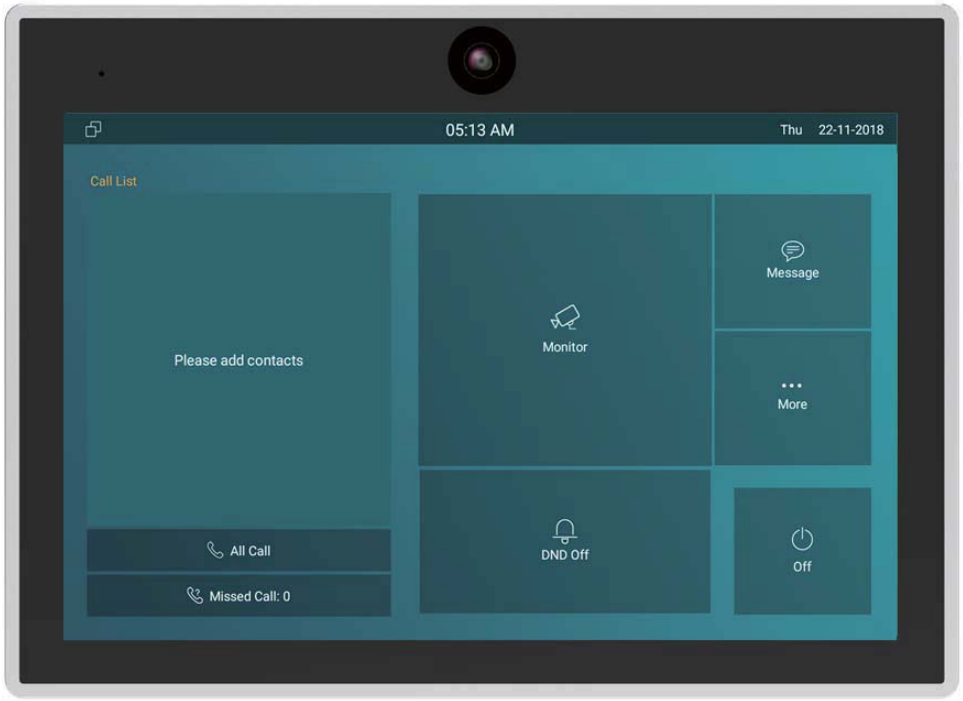
Akuvox Smart Intercom



IT83 Series Indoor Monitor Admin Guide

About This Manual

Thank you for choosing Akuvox's IT83 series indoor monitor. This manual is intended for end users, who need to use and configure the indoor monitor. This manual provides an introduction of all functions and features of the product. It is suitable for 83.31.2.3xx version. Please visit Akuvox forum or consult technical support for any new information or latest firmware.

Note: Please refer to universal abbreviation form in the end of manual when meet any abbreviation letter.

—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.
FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment should be installed and operated with minimum distance 20cm between the radiator&you body.

Content

1. Product Overview

1.1. Product Description

IT83X is an Android SIP-based with smooth touch-screenindoor monitor. It can be connected with Akuvox door phone for audio/video communication, unlocking and monitoring.

Residents can communicate with visitors via audio/video call, and it supports to unlock the door remotely. It is more convenient and safer for residents to check the visitor's identity through its video preview function.

IT83X are often applied to scenarios such as villas, apartments and buildings.

1.2. Connector Introduction

Ethernet(POE): Ethernet (POE) connector which it can provide both power and network connection.

RJ45 (PON): Share the network access from Ethernet (POE) port, and for PC and other equipments connection.

12V/GND: External power supply terminal if POE is not available.

RS485A/B: RS485 terminal.

Bell/GND: Connect a simple two-wire door bell.

Relay A/B (NO/COM/NC): Relay control terminal.

IO1- IO8/GND: Connect with different alarm detectors for 8 security zones.

Note: The general indoor monitor interface diagram is only for reference.

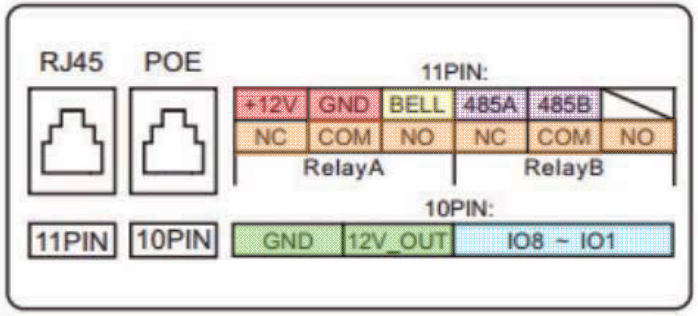


Figure 1.2-1 IT83X interface

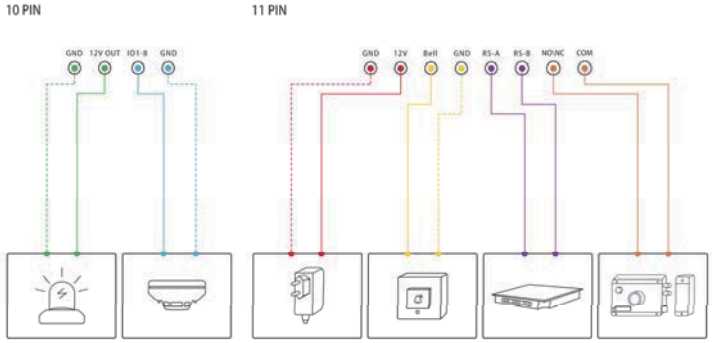


Figure 1.2-2 General interface

2. Daily Use

2.1. Starting

When booting IT83X first time, users need to choose a suitable way to connect to network,wireless or wire.

To choosea proper device mode according to specific application scenarios. IT83X supports 3 modes, including **Cloud,Discovery** and**SDMC**. It only pop up Cloud Mode and Discovery Mode for users choosing. Tap **Skip** if usersare adopting SDMC mode. Discovery mode is default mode if you don't choose any device mode.

Discovery mode: It is a plug and play configuration mode. Akuvox devices will configure themselves automatically when users power on the devices and connect them to network. It is super time-saving mode and it will greatly bring users convenience by reducing

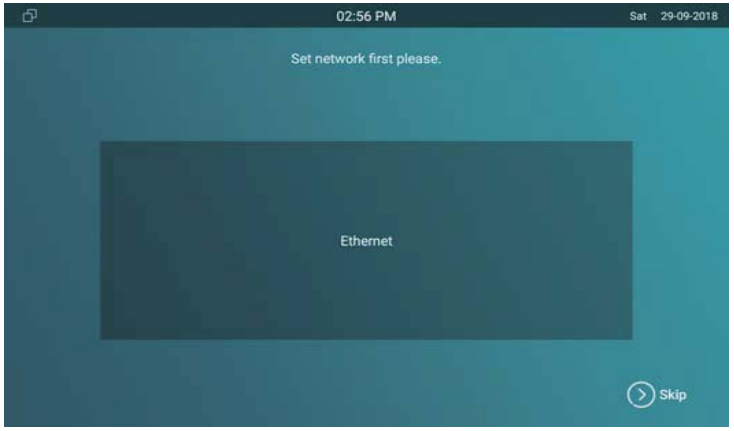


Figure 2.1-1 Network selection

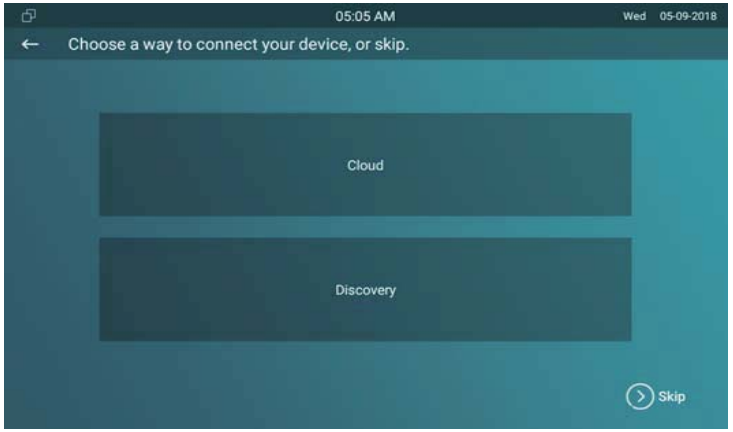


Figure 2.1-2 Device mode selection

manual operations. This mode do not need to be done any configurations previously by the administrator.

Cloud mode: Akuvox Cloud is an all in one management system. Akuvox Cloud is the mobile service that allows audio, video, remote access control between smart phones and Akuvox intercoms. All configurations in the device will be issued automatically from cloud. If users decide to use Akuvox cloud, please contact administrator, who will help to configure related settings before using.

SDMC mode: SDMC is a center management software which is suitable for managing a community in LAN. The device will get settings from SDMC automatically.

2.2. Making a Call

There are 6 ways to establish VOIP callsby IT83X.

2.2.1. Calling from Call List

In the home page, choose a number from **Call List** to make a call.

- Scroll up or down the **Call List** to choose the contact that users want to call.

Note: In Cloud or SDMC mode, the **Call List** of IT83X will be issued from the system.

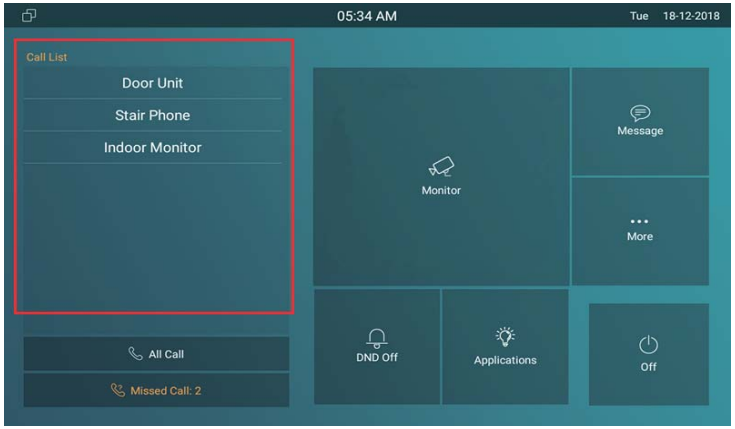


Figure 2.2.1-1 Call from call list

2.2.2. Calling from All Call

In the home page, it could call multiple indoor monitors if they are set under the same multicast address. During the session, IT83Xis listened by other indoor monitors.

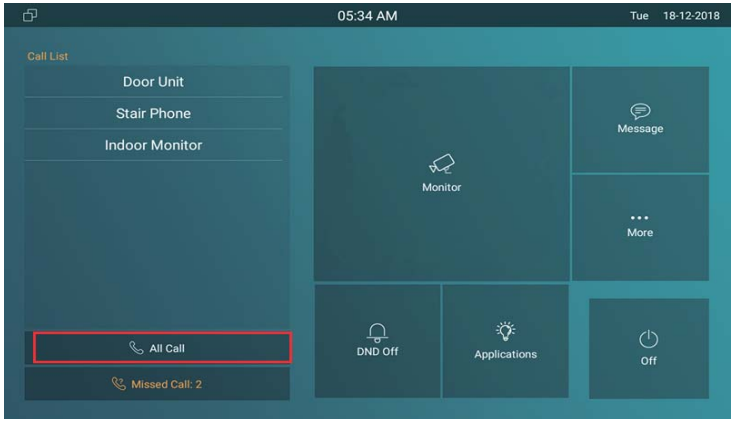


Figure 2.2.2-1 Call from all call

- Tap **All Call** icon to call other indoor monitors which are set in the same multicast group.

2.2.3. Calling from Missed Call

In the home page, missed call indicates how many calls that users missed (1 missed call for an example). Missed call could be treated as a brief call log.

- Tap **Missed Call** icon ① to view the calls that were not answered before.
- Choose the contact on the call list ② which users want to call out.
- Click account above the keypad ③ to switch accounts to make a call.
- Choose **Audio** ④ or **Video** ⑤ mode to call out.

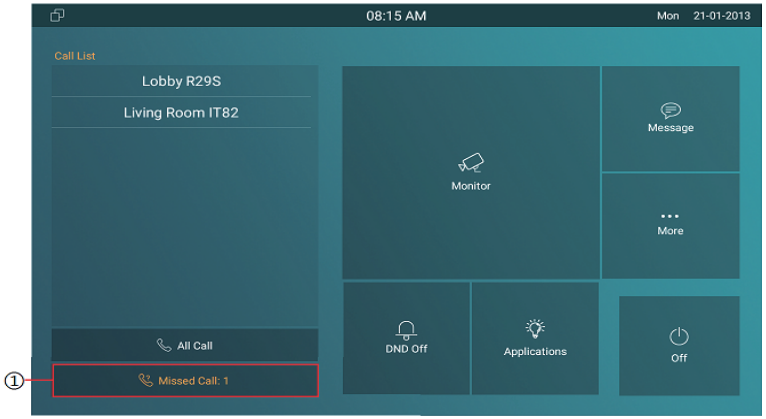


Figure 2.2.3-1 Call from miss call

Figure 2.2.3-2 Call from miss call

2.2.4. Calling from Device

It will display the devices connected with IT83X on the contact interface. On the device, go to **More** - **Contact**.

- Click **Update** ① to synchronous the contact automatically.
- Choose a device ② which users want to call.
- Choose **Audio** ③ or **Video**④ mode to call out.

Note: Only under Discovery mode, users need to press **Update** key manually.

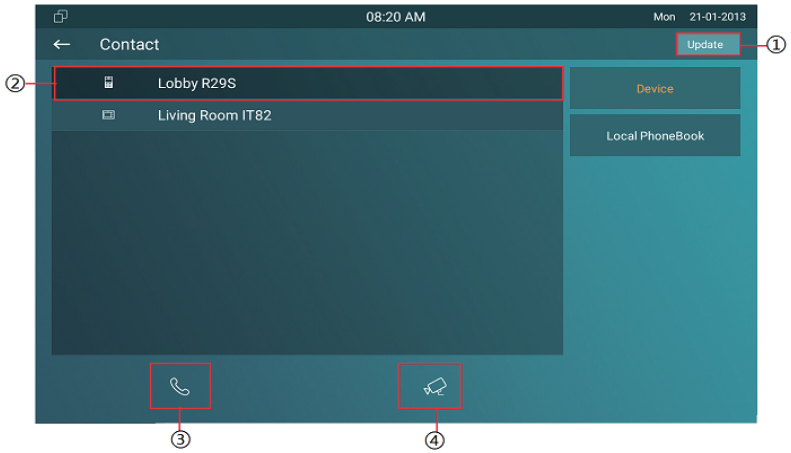


Figure 2.2.4-1 Call from device

2.2.5. Calling from LocalPhoneBook

On the device, go to **More** - **Contact** to enter the **Local PhoneBook**interface to make a call.

- IT83X supports fuzzy matching query①.To search the list by entering number or alphabet.
- Scroll up or down to select contact ② that users want to call.

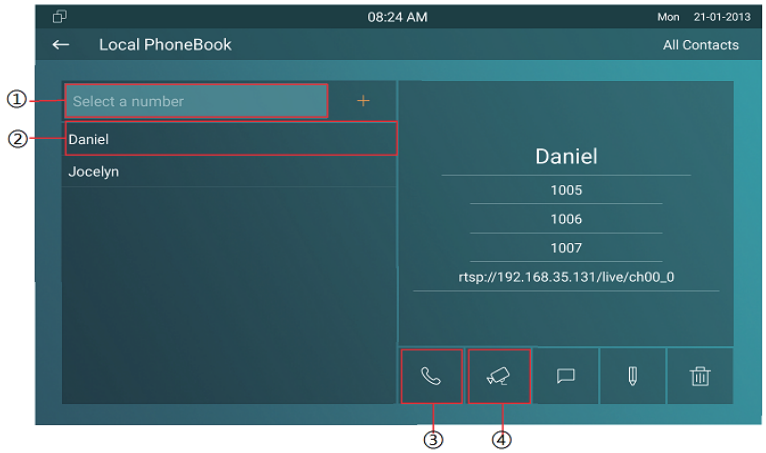


Figure 2.2.5-1 Call from local phonebook

- Choose **Audio** ③ or **Video** ④ mode to call out.

2.2.6. Calling from Keypad

On the device, go to **More** - **Call** to get access to keypad.

- Click account icon ① above the keypad to switch accounts to make a call.
- Input the SIP account /IP address to the keypad ② to call the corresponding devices or soft phone.
- Choose **Audio** ③ or **Video** ④mode to call out.

Figure 2.2.6-1 Call from keypad

2.3. Receiving a Call

2.3.1. Receive an Incoming Call

IT83X supports to preview the caller when it receives an incoming call from door phone.

- Tap **Answer** to pick up the incoming call.

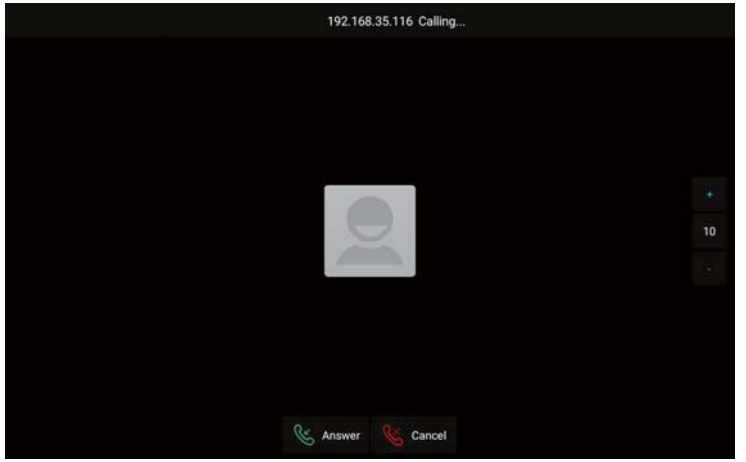


Figure 2.3.1-1 Incoming call

- Tap **Cancel** to reject the incoming call. Press “**+**” or “**-**” of the volume on the right side to adjust the ring tone volume.

2.3.2. During the session

- Tap **Unlock** to open the corresponding door (if the call is from outdoor unit).
- Tap **Capture** to take a screen shot of current interface.
- Tap **Mute** to eliminate the voice on IT83X’s side.
- Tap **Switch** to switch from video call to audio call or vice versa.
- Tap **Cancel** to hang up the current call.

Figure 2.3.2-1 During session

2.4. Monitor

Monitor feature enables users to view the real-time video from IP cameras or door phones anytime. Click **Monitor** in the home page.

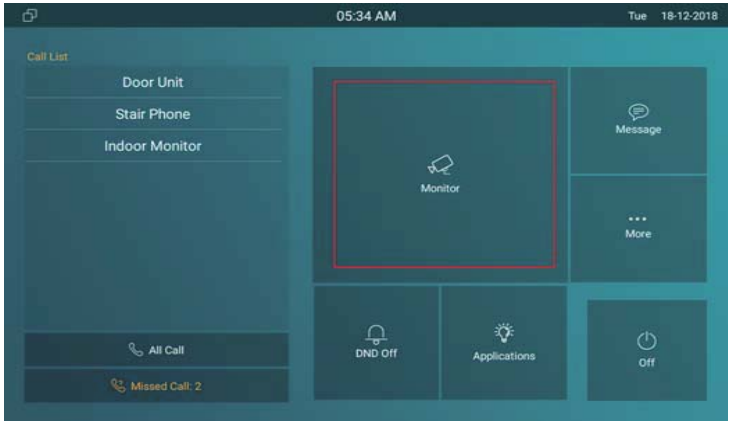


Figure 2.4-1 Monitor

2.4.1. Checking the Monitor

Choose the outdoor devices from the list. The real-time video from the door phone or IP camera will show in the screen.

- Press**Unlock** to open the door which is connected with door phone.
- Press **Capture**to take a screen shotof current interface.
- Press **Cancel** to exit the monitoring.
- Press**List button** inthe bottom right corner to wake the outdoor video list.
- Press the **Monitor list** in the right side to choose the outdoor videos.

Note: Only under Discovery mode, users need to press **Update** key manually to synchronous the devices which is in the same node.

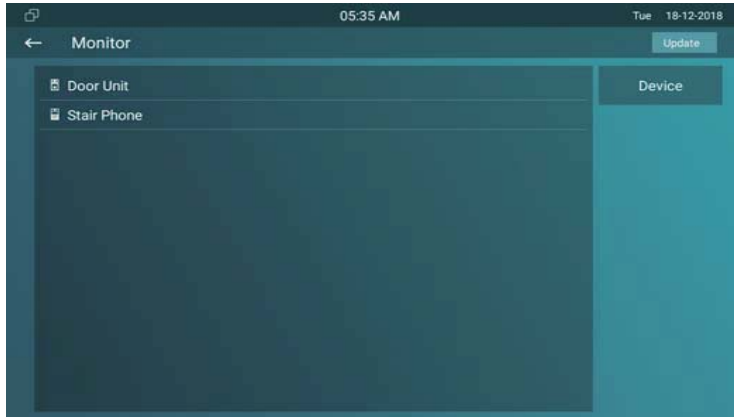


Figure 2.4.1-1 Live view list

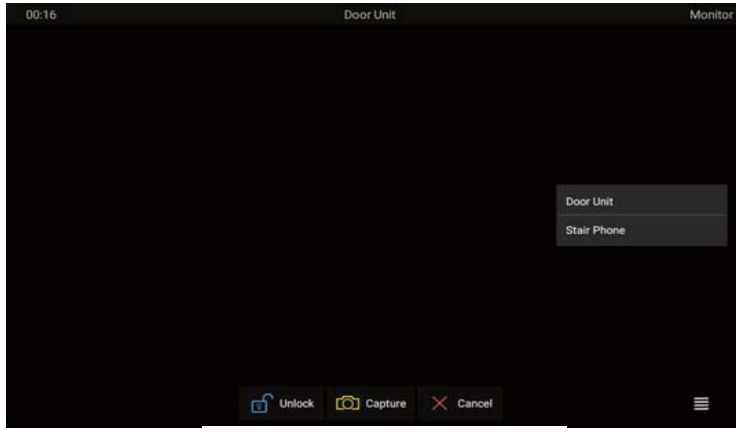


Figure 2.4.1-2Live view video

2.5. Message

Message① indicates how many messages are unread(An unread message for an example). Or directly enter the message interface to manage.

2.5.1. Text Message

- Tap **Message** ① on the main interface to view the unread message.
- Tap the unread message ② to view the message in details.

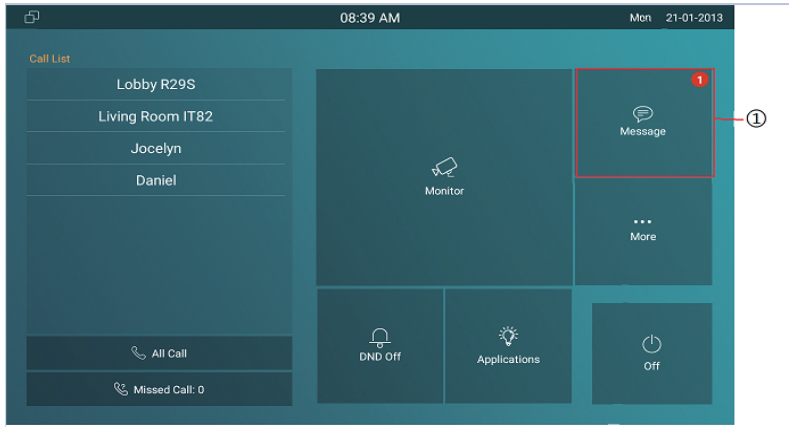


Figure2.5 -1 Message

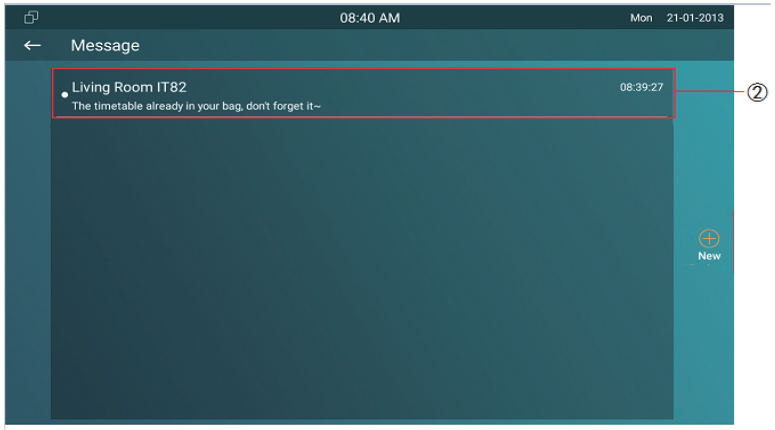


Figure 2.5.1-1 Text message

2.5.2. Creating a Message

- Press **New** key ① to create a new message.
- Enter the destination number manually②orchoose the contact from the **contact list**③or select the device quickly from the below list ④.
- Choose the **frequentlyused message**⑤ , such as “Hello,” “Help.” Or input the message content which users want to send ⑥.
- Press**Send** key ⑦to send.

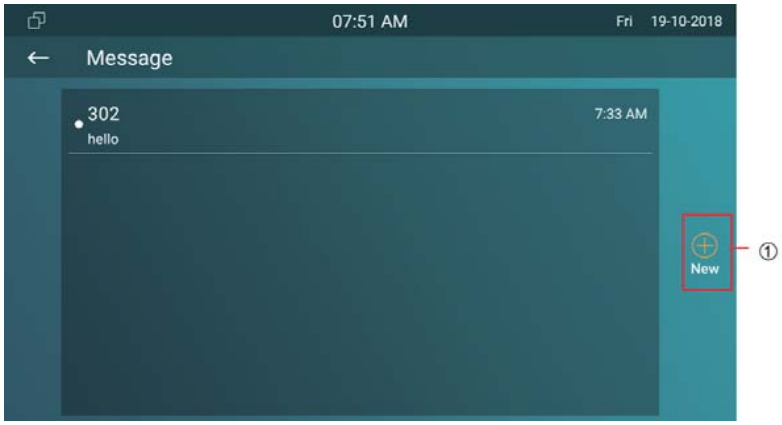


Figure2.5.2-1 Create message

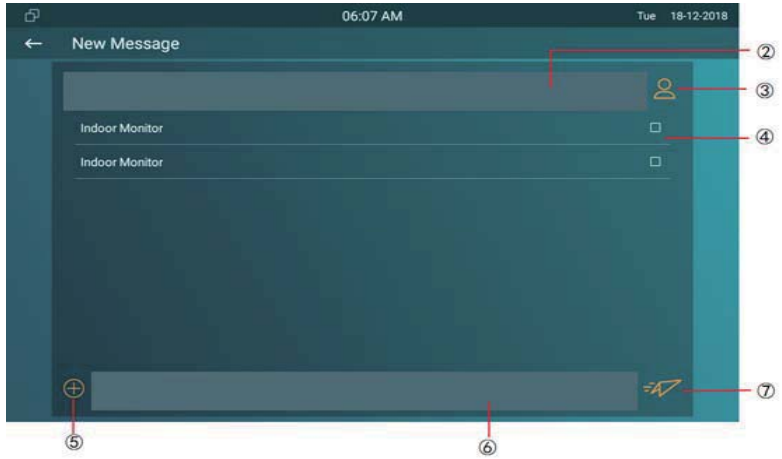


Figure2.5.2-2 Create message

2.5.3. Deleting a Message

- Long press the message ① to select it.
- Click **Select All** ② to select all message in the message lists.
- Click **Delete** ③ to delete the messages have been selected.
- Click **Cancel** ④ to cancel the operation.
- Click **Back** icon ⑤ to exit the message interface.

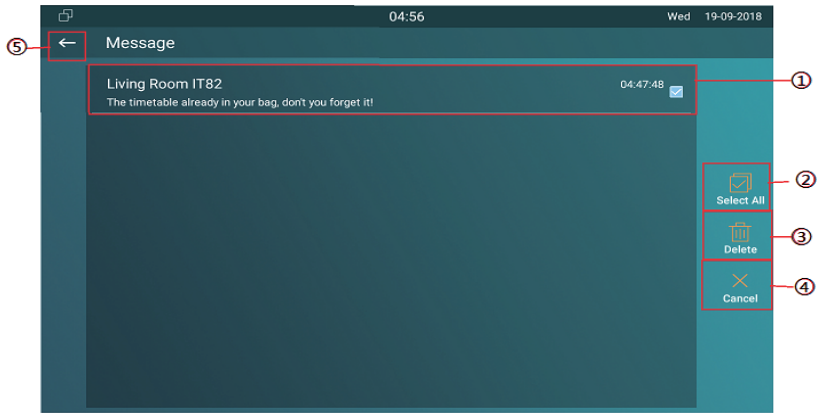


Figure2.4.2-1 Delete message

2.6. Arming

Tap **Arming** to enter the Arming interface. Arming feature is not displayed by default. Users can ask administrator to enable it. Please refer to chapter 3.4.10.

IT83X supports 4 modes, including **Home** mode, **Night** mode, **Away** mode and **Disarmed** mode.

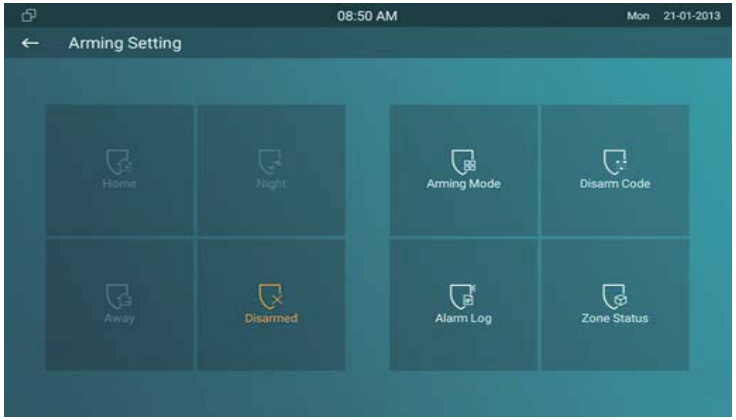


Figure2.6-1 Arming

2.6.1. Arming Mode

Go to **Arming- Arming mode**. Users can see all of the 8 zones andcorresponding sensor types. Slide down to check more informationin this interface.

- Adjust **Defence delay time**. It means when users change the arming mode from other modes, there will be 90 seconds delay time to get activated.
- To setup the **Alarm delay**. It means when thesensor triggered,

Figure2.6.1-1 Arming mode

there will be 90 seconds delay time to announce the notification.

- The**Status** in the corresponding zone means whether the zone is available or not.
- Press **Save** in the top right corner to save the modification.

2.6.2. Disarm Code

Go to**Arming** - **Disarm Code**to enter the disarm code settings interface. Users can modify the disarm code here.

- Enter the **original disarm code** ①first, and it is 0000 by default.
- Enter the **new disarm code**②.
- Enter the new disarm code again ③for confirming.
- Press **Save** to save the modification.

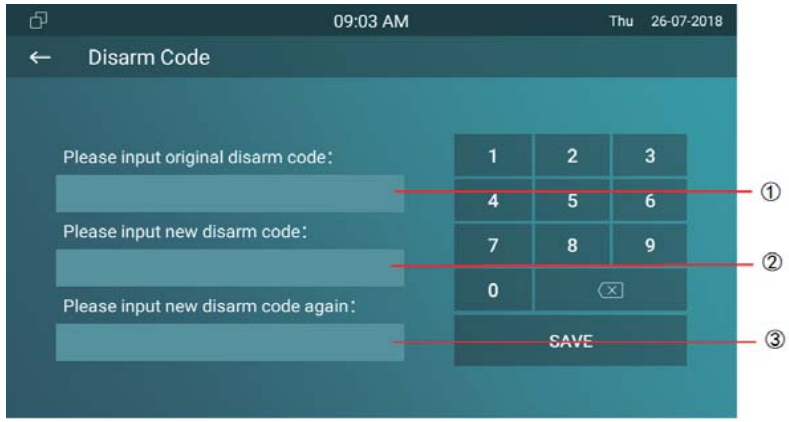


Figure 2.6.2-1 Disarm code

2.6.3. Alarm Log

Go to **Arming** - **Alarm Log** to enter the alarm log interface. Users can check the alarm log, including“location,”“zone,”“zone type” and “alarm time.”

- Hold an **alarm log**① and it will show up delete prompt.
- Press **Select All**②to delete all alarm log or select a part of existed messages then click **Delete** ③.
- Press**Cancel** ④ to cancel to deletion.

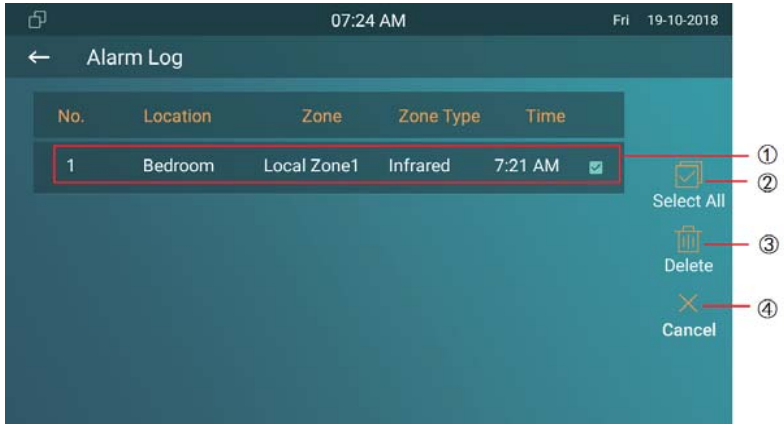


Figure 2.6.3-1 Alarm log

2.6.4. Status

Go to **Arming** - **Zone Status**to enter the zone status interface.Users can check the status of zones, including “location,”“zone type,”“trigger mode” and “status.”

Figure 2.6.4-1 Alarm status

3. Basic Features

3.1. Accessing the System Settings

3.1.1. Advanced System Setting

On the device, goto **More-Settings-More** (Default password is 123456) to accessadvancedsystem settings.

The latter **More** interface have more advanced features' settings.

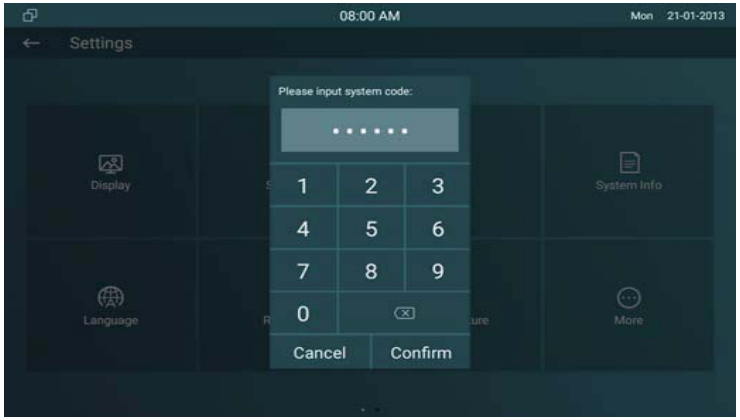


Figure3.1-1 System setting

3.2. Accessing the Website Setting

3.2.1. Obtaining IP address

On the device, go to**More-System Info-Network** to check the device's IP address.

Figure3.2.2-1 Network status

3.2.2. Accessing the Device Website

Type the device's IP address on browser, and input default user name and password: **admin**/**admin** to access the web interface.

Note: The recommended browser is Google Chrome.

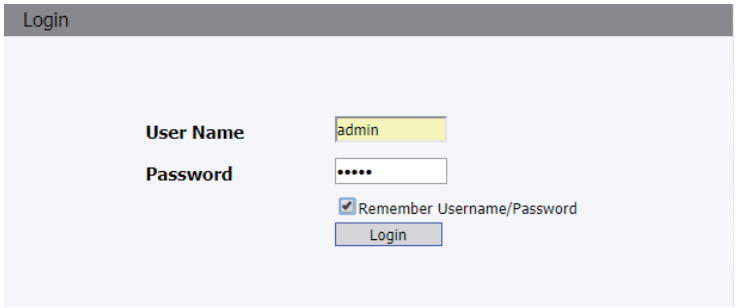


Figure3.2.2-2Login web

3.3. Password Modification

3.3.1. System Code Modification

On the device, go to **More** - **Settings** - **More** - **System Code**.

System code is used to enter higher level **More** interface, and the **originalsystem code**①is 123456.Administrator can edita **new system code** ② to prevent someonefrom tampering with the advanced configurations, and then confirm the new one ③ and click submit④to save.

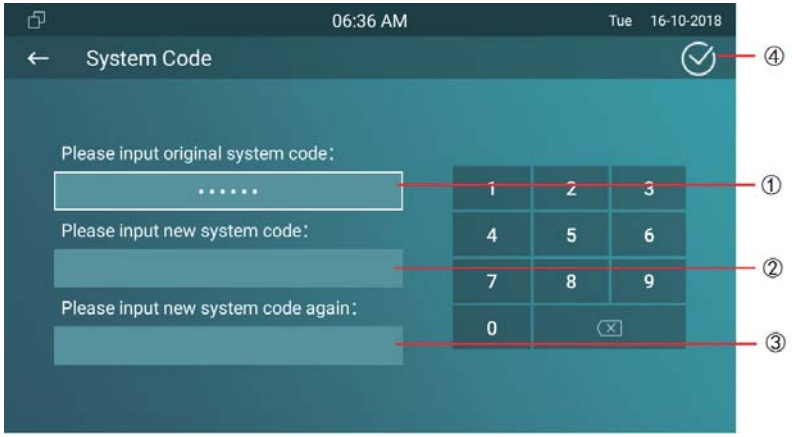


Figure3.3.1-1 System code

3.3.2. Setting Code Modification

On the device, go to **More** - **Settings** - **More** - **Setting Code**.

Setting code is used to enter “Setting interface,” and the **original setting code**①is null. Administrator can edita **new setting code** ② to prevent someone from entering the setting interface, and then confirm the new one ③ and click submit ④to save.

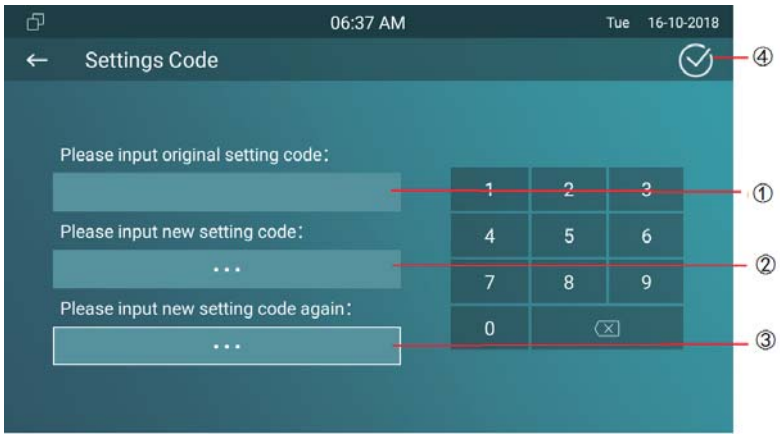


Figure3.3.2-1 Setting code

3.3.3. Web Password Modification

Access the website, go to **Security-Basic**to modify the default website password “admin.” Enter the original password and new password, and confirm the new password again.

Confirm Password: To enter the new password again to confirm there is no mistake.

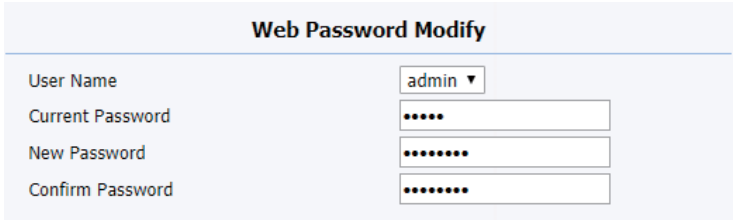


Figure3.3.3-1 Web Password

3.4. Phone Configuration

3.4.1. Language

On the device, go to **More** - **Settings** - **Language** to choose a suitable phone screen display language, and it is English by default. In the website,go to **Phone** - **Time/Lang** to select a web language, and it is English by default.

Figure 3.4.1-1 Phone language

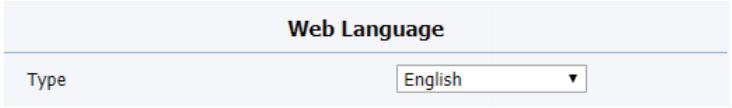


Figure 3.4.1-2 Web language

3.4.2. Time

On the device, go to **More** - **Settings** - **Time** to enter the time setting interface.

Automatic Date Time: Tick to enable NTP server.

Set Date: To set the date manually.

Set Time: To set the time manually.

Time Zone: To select which time zone user is in.

Use 24-Hour Format: To enable 24 hours format for a day.

Date Format: To select different date format.

NTP Server: To fill in the NTP server to get time automatically.

On the web portal, go to **Phone** - **Time/Lang**.

Time Zone: To select which time zone user is in.

Primary Server: To fill in NTP server to get time automatically.

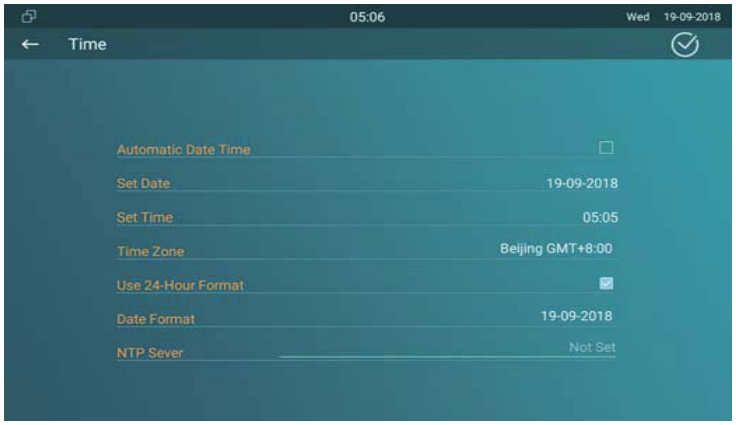


Figure 3.4.2-1 Time setting

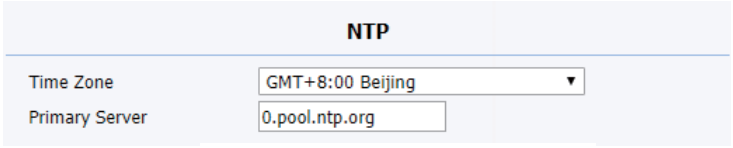


Figure 3.4.2-2 NTP setting

3.4.3. Network

3.4.3.1. Network Status

On the device, go to **More** - **System Info** - **Network**.

Users could check the basic network status from this interface, including access mode, IP address parameters and so on.

On the web portal, go to **Status** - **Basic** - **Network Information** to check network information.

Figure3.4.3.1-1 Network info

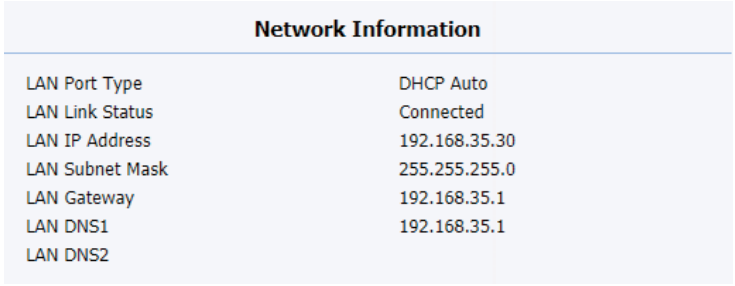


Figure3.4.3.1-2 Web network info

3.4.3.2. Network Settings

On the device, go to **More** - **Settings** - **More** - **Network**.

DHCP: Tick the DHCP option to configure the network as DHCP mode, and then IT83X will obtain the IP address, and other network parameters automatically.

Static IP: Fill in the parameters of LAN IP, subnet mask, gateway, pri DNS server and sec DNS server manually.

On the web portal, go to **Network** - **Basic** to configure the network settings.

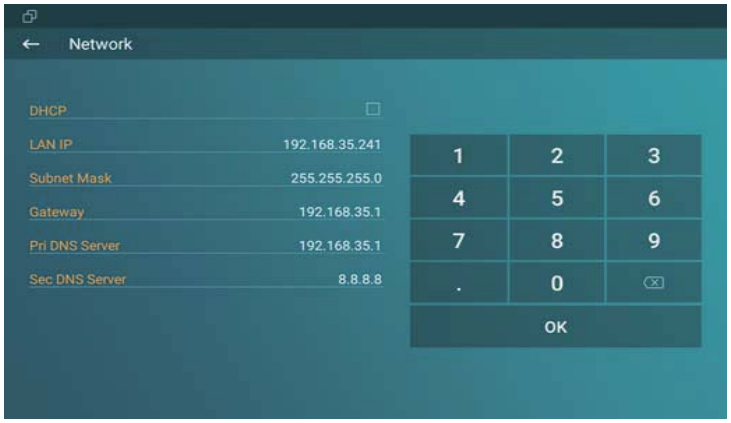


Figure 3.4.3.2-1 Wire network setting

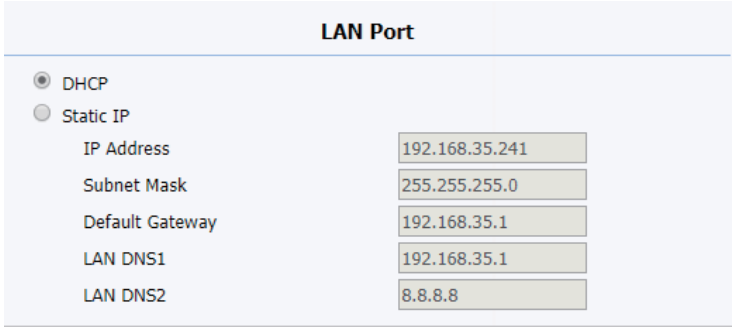


Figure 3.4.3.2-2 Wire network setting

3.4.3.3. WIFISetting (optional)

On the device, go to **More** - **Settings** - **More** - **WiFi** to enable the WIFI feature, choose the suitable AP (Access point), and thenenter the password to connect to it.

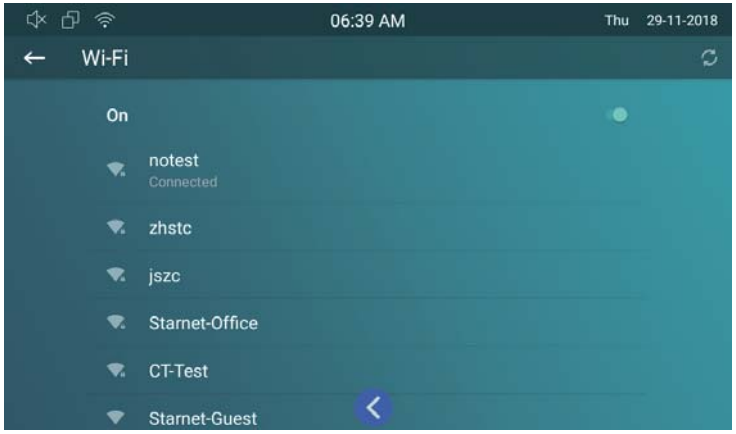


Figure3.4.3.3-1 Wireless network

3.4.3.4. Local RTP

On the web portal, go to **Network** - **Advanced** - **Local RTP**.

Starting RTP Port: To determine the minimum port for RTP stream.

Max RTP Port: To determine the maximum port for RTP stream.

Figure 3.4.3.3-1 RTP setting

3.4.4. Bluetooth (optional)

Bluetooth is a proprietary, open wireless technology standard for exchanging data over short distances from fixed and mobile devices, and creating personal area networks with high levels of security.

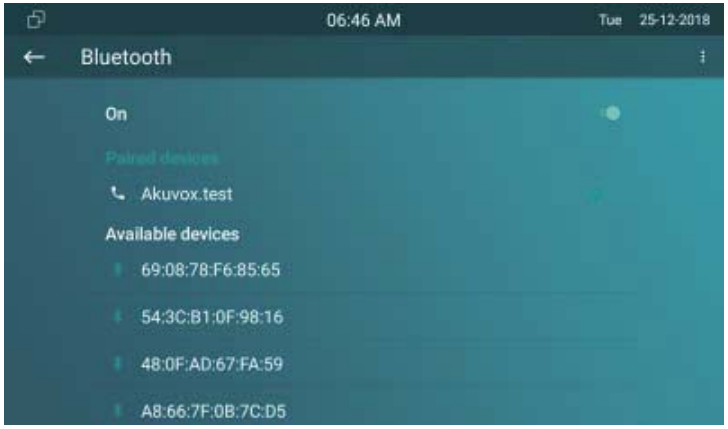


Figure 3.4.4.1 Turning on/off BLE

3.4.4.1. Turning Bluetooth On /Off

In the device, go to the More - Settings -Bluetooth, click On to enable the bluetooth.

3.4.4.2. Changing Bluetooth Device Name

The IT83A/W uses “rk312x” as Bluetooth device name by default. The device name will be visible to other devices when connecting them. In the device, click top right corner ,choose “Rename this device” to modify the device name, click **RENAME** to save.

3.4.4.3. Paring With Another Bluetooth Device

After enable bluetooth, the available devices will be shown in the list. If you want to refresh the device list, click top right corner to Refresh.

- Choose which one you need to connect,

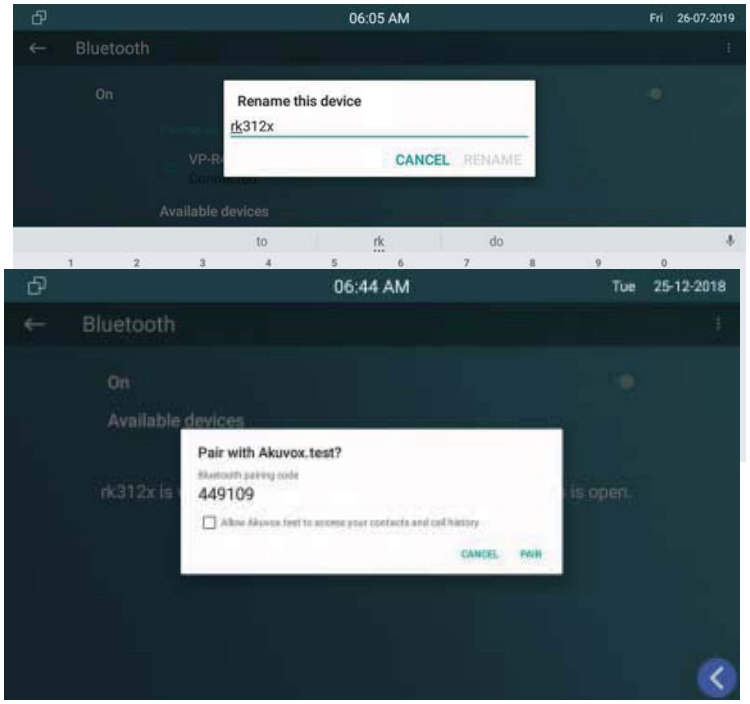


Figure 3.4.4.3 Paring the BLE

- Click PAIR in the prompt windows in both sides.
- The Device will be connected successfully.

3.4.4.4. Transfer By bluetooth

After connection, users can choose bluetooth to transfer and receive some files. And user can check the received file in the top right corner “Show received files”.

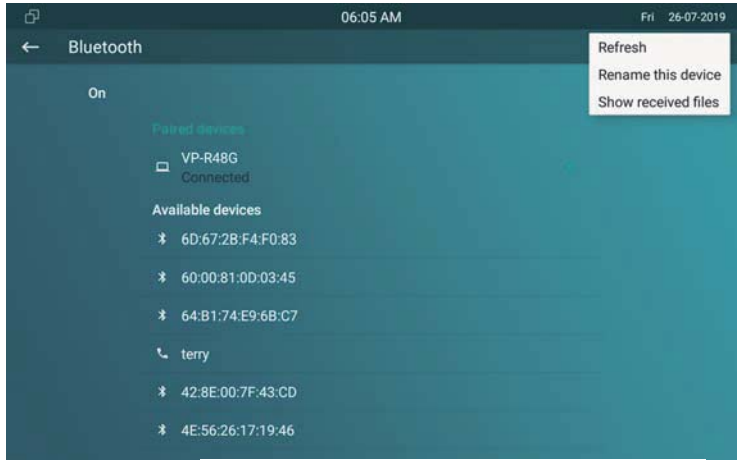


Figure 3.4.4.4 Show received fiels

3.4.4.5. Unparing the Bluetooth Device

- Click the connected device.
- Click OK in the prompt windows.
- The Device will be disconnected successfully.

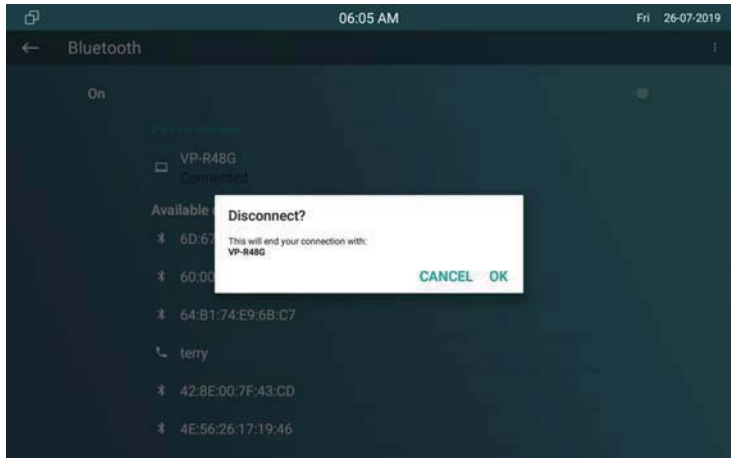


Figure 3.4.4.5 Unparing the BLE

3.4.5. Display Settings

On the device, go to **More** - **Settings** - **Display**.

Brightness: To adjust the brightness which is 145 by default. The range is from 0 to 255. The bigger value means the brighter screen.

Sleep: To configure the sleep delay which is 1 minute by default. If there is no any operation in 1 minute, it will turn to sleep screen.

Screen Saver Lock Time: To configure the time to make it display sleep screen when it is in screen savor mode.

Screen Saver: To enable screen saver mode.

Screen Lock: To enable the lock of screen, the device will be unlocked over the sleep time.Users are required the face recognition (Face ID) or password to wake up IT83X.

Screen Clean: Press screen clean to clean the screen, and it will keep users from misusing.

Font Size: To adjust the size of words which is displayed on the screen.

Figure 3.4.4-1 Display setting

3.4.6. Sound Settings

On the device, go to **More** - **Settings** - **Sound**.

Ring Volume: To set ring volume for incoming calls.

Talk Volume: To set talk volume during the call.

Tone Volume: To set tone volume.

Ring Tones: To set different ring tones for incoming call.

Notification Sound: To set notification sound when receiving message.

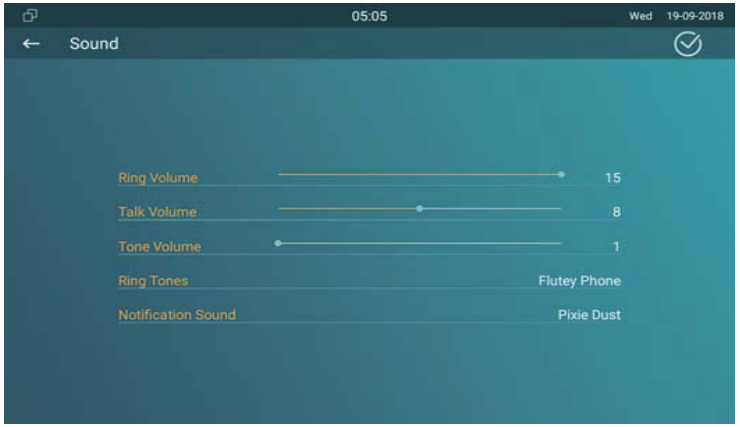


Figure 3.4.5-1 Sound setting

3.4.7. Door Bell Sound

On the web portal, go to **Phone** - **Audio**.

Upload: To choose the suitable sound file from the local folder. Click Import to save. Please note the tip about the sound file format.

Sound File: Choose one sound file from imported sound files before.

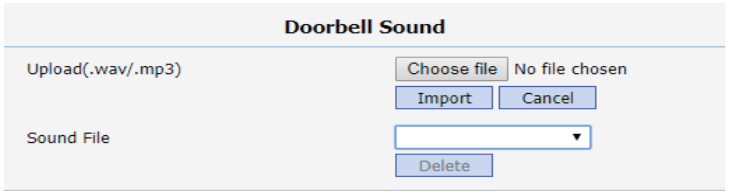


Figure 3.4.6-1 Doorbell sound

3.4.8. DND

The full name of DND is Do Not Disturb. It allows IT83X to ignore any incoming calls.

- On the device home screen, tap the **DND** to able or disable DND function.

On the web portal, go to **Phone** - **Call feature** - **DND**.

DND: Enable or disable this function.

Return Code When DND: To configure the return code to caller when rejecting the call.

DND On Code: The code is used to turn on DND on server's side, if configured, IT83X will send a SIP message to server to turn on DND on server side if users press DND when DND is off.

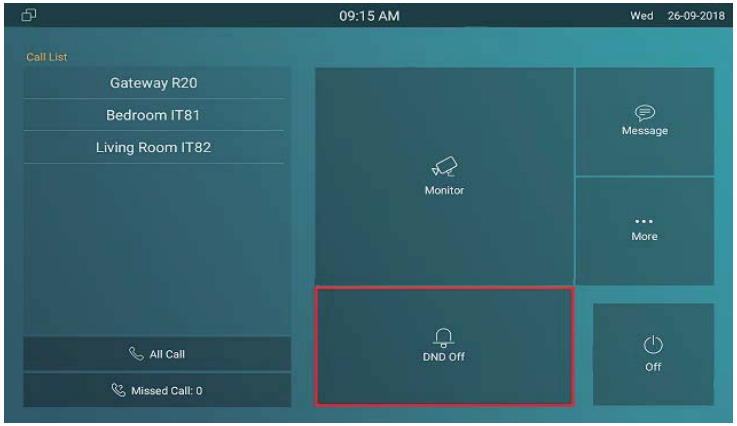


Figure 3.4.7-1 DND switch

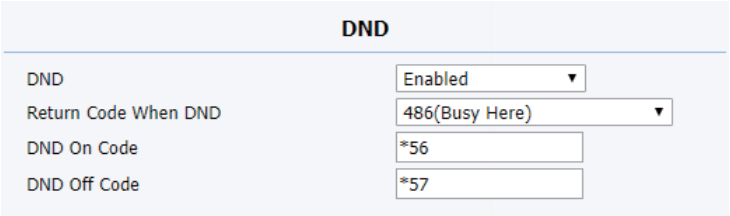


Figure 3.4.7-2 DND setting

DND Off Code: The code is used to turn off DND on server's side, if configured, IT83X will send a SIP message to server to turn off DND on server side if users press DND when DND is on.

3.4.9. Capture

On the device, go to **More** - **Settings** - **Call Feature**.

IT83X will automatically take a screenshot from the visitor during the talking, or users can tap the **Capture** key during the live view or calling manually and the capture will be saved in the default path.

Users can change the default path by themselves.

Figure 3.4.8-1 Capture path

3.4.10. Logo

On the web portal, go to **Phone** - **Logo**.

Users are able to upload the logo picture, IT83X will display the logo when powering up.

Click **Reset** to reset the boot logo to original one.

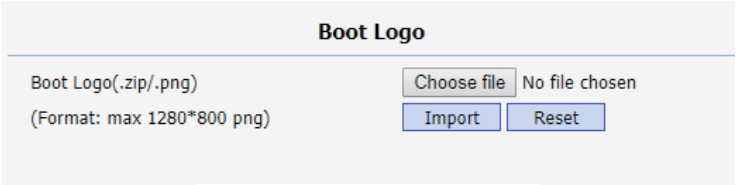


Figure 3.4.9-1 Boot logo

3.4.11. Key Set of IT83X Monitor

On the web portal, go to **Phone** - **Key/Display**. Users can customize the feature icon display, to choose which feature will be shown and where it will be displayed.

Type: To select which function shall be displayed on the home page or more page. “DND” and “Message” are displayed on home page, “Call,”“Contact,”“Settings” and “Status” are displayed on more interface by default.

Value: To fill in corresponding parameters for some types. For example, if users want to display a third party APP on the home screen, the type shall be chosen as “Custom APK” and fill in the value with corresponding package name and class name.

Example: To view the display example of IT83X on home page interface or more interface.

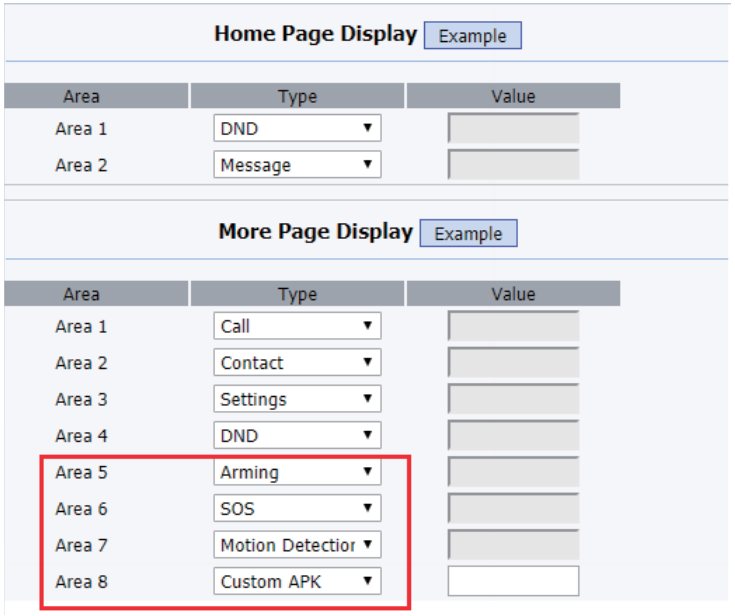


Figure 3.4.10-1 Icon display

3.5. Local PhoneBook

3.5.1. Adding a Contact

On the device, go to **More** - **Contacts** - **LocalPhoneBook**.

- Enter Contact interface, and then press **+** symbol ① to add new contact.
- Type in new contact name ② .
- Click **Number 1/2/3** ③ to enter number 1/2/3, which could be SIP number or IP number. It is supported 3 numbers for each of the contact person.
- Click **CameraUrl**④to enter RTSP URL of outdoor unit.

Note: The RTSP URL of Akuvox door phone is rtsp://device_IP/live/ch00_0.

- Tap **Cancel** ⑥ to cancel the operation or press **Confirm** ⑤ to make changes to the contact setting.

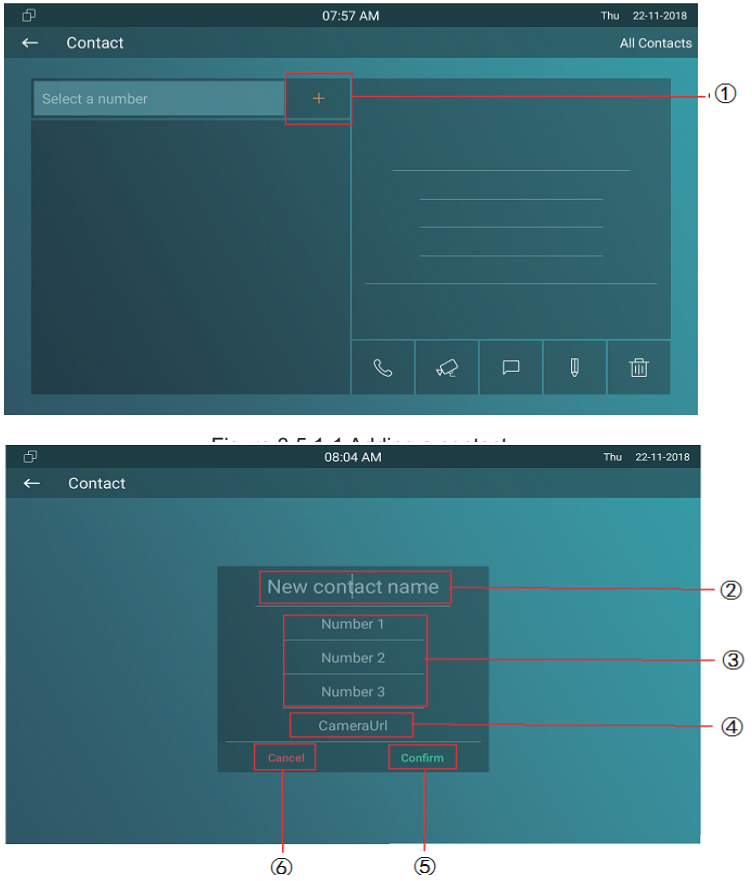


Figure 3.5.1-2 Adding a contact

3.5.2. Editing a Contact

On the device, go to **More** - **Contacts** - **Local PhoneBook** to enter contact interface, and select one existed contact.

- Press **Edit** icon ① to modify the exited contact.
- Press **Delete** icon ② to delete a existed contact.

On the web portal **PhoneBook** - **Local Book**, users can also do some modification about contact.

Contact: To display all contact or black list.

Search: To search the contact by entering number or name.

Dial: To dial out the number that users have filled in.

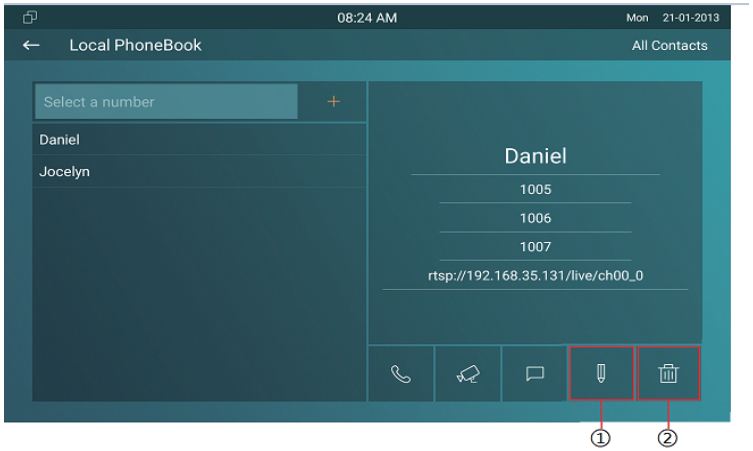


Figure 3.5.2-1 Editing a contact

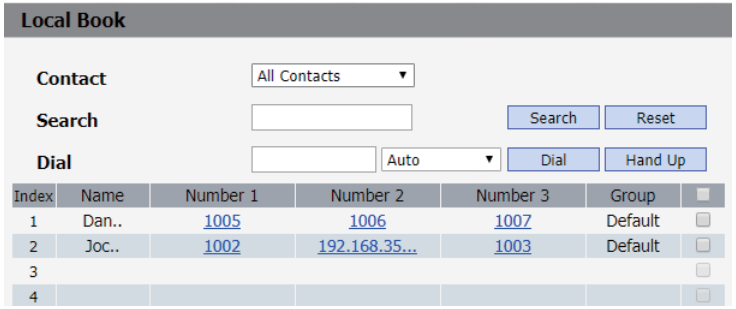


Figure3.5.2-2 Web contact

3.5.3. Contact Import/Export

Import/Export: To import or export the contacts in bulk, please make sure the format is correct.

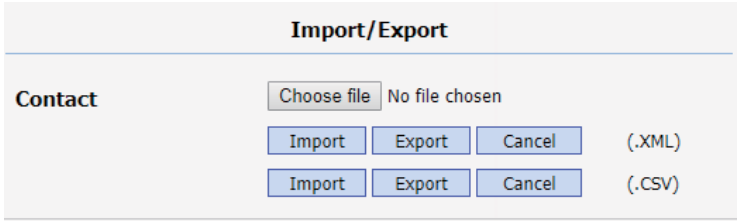


Figure3.5.3-1 Import/Export contact

3.5.4. Black List

On the device, go to **More** - **Contact** - **LocalPhoneBook** - **Black List**.

- Click **All Contacts** ① to switch the local phone book from all contacts to black list or vice versa.
- Press **+** ② to add number into black list.
- Click phone book icon ③ to view the existing contacts in local phone book.
- Tap contacts ④ to select the corresponding contact person into black list.
- Tap **Select All** ⑤ to select all contacts.

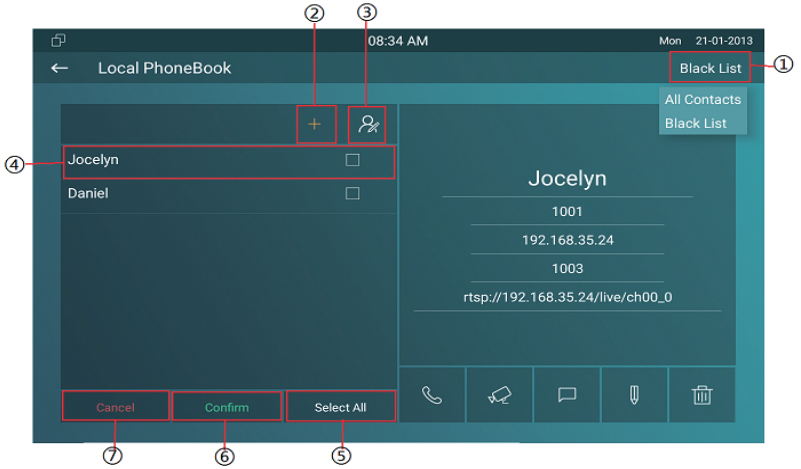


Figure3.5.4-1 Black list

- Tap **Confirm** ⑥ to add contacts into black list.
- Tap **Cancel** ⑦ to cancel the operation.

On the web portal, **PhoneBook** - **Local Book** - **Contact** - **Blacklist**.

User can also do some configurations.

Contact: To display black list or all contact.

Search: To search the contact by entering number or name.

Dial: To dial out the number that users have filled in.

BlackList Setting: To add new contact to black list.

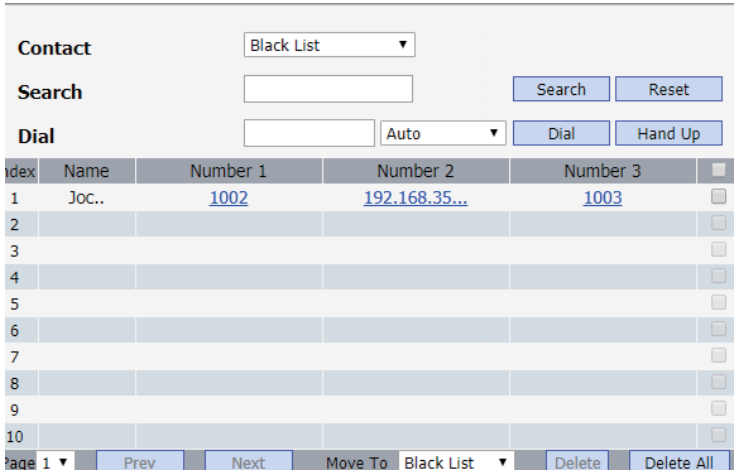


Figure3.5.4-2 Blacklist in web

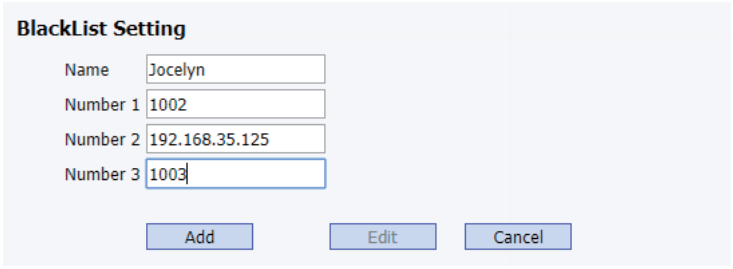


Figure3.5.4-3Add blacklist

3.6. Intercom Call

3.6.1. IP Direct Call

Without sip server, users can also use IP address to call each other, but this way is only suitable in the LAN.

On the web portal, go to **Phone** - **Call Feature** - **Others** - **Direct IP** to enable the direct IP function.

Enter the IP address of the caller, and then press **Audio Call** or **Video Call** to make a call.

Figure3.6.1-1 IP call switch

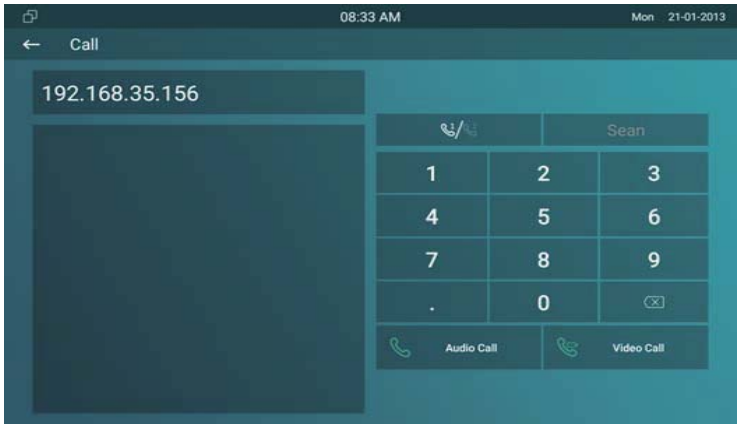


Figure3.6.1-2Direct IP call

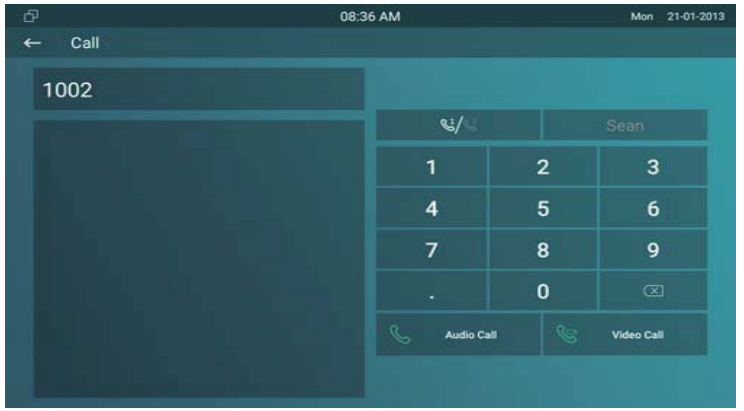


Figure3.6.2-1 SIP call

3.6.2. SIP Call

Sip call uses sip number to call each other which should be supported by sip server. Users need to register an account and fill some sip feature parameters before using it.

3.6.3. Account Status

On the device, go to **More** - **System Info** - **Account**.

Users could check the basic SIP account status here, registered means it is ready for using.

On the web portal, go to **Status** - **Account** information to check the basic information of SIP account.

Figure3.6.3-1 Account status

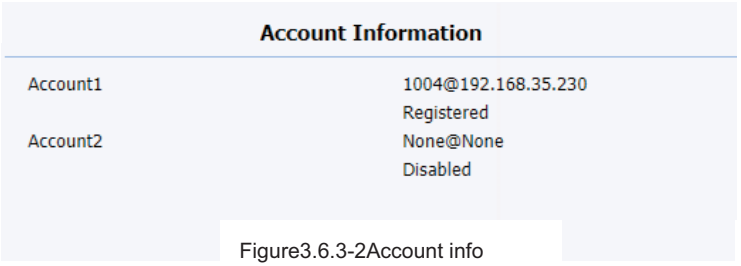


Figure3.6.3-2Account info

3.6.4. SIP Account

On the device, go to **More** - **Settings** - **More** - **Account**.

Active: To activate SIP account.

Label: To enter the label name of this account, which will show on the account status interface.

Display Name: To enter the display name of this account, which will show on other devices when making calls.

Register Name: To enter the number registered onto SIP server.

User Name: To enter the extension number registered onto SIP server.

Password: To enter the password of the corresponding users.

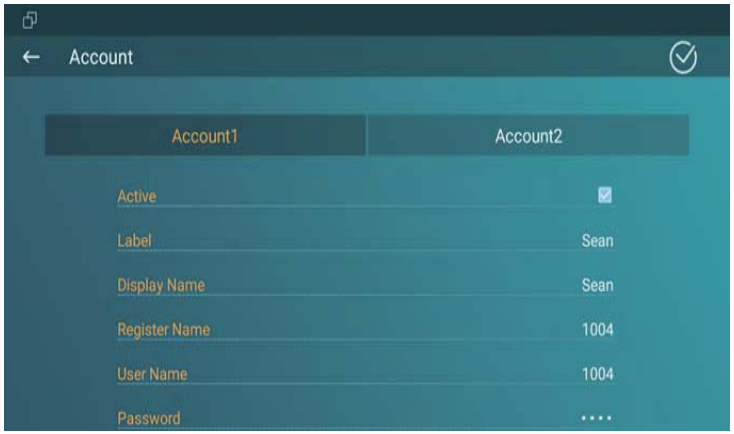


Figure3.6.4-1 SIP account

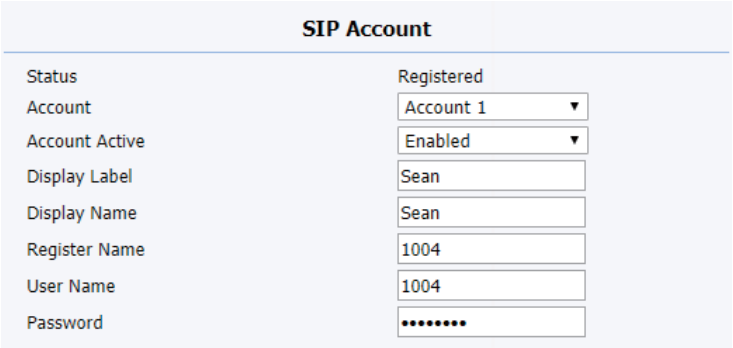


Figure3.6.4-2Web SIP account

3.6.5. SIP Server

Enter the SIP account address which points to the sip server.

Server IP: To enter SIP server's IP address or URL.

Port: The specified port number for the sip server.

Registration Period: The registration will expire after registration period, and IT83X will re-register automatically within registration period.

On the web portal, go to **Account** - **Basic** to check the information of SIP account in details.

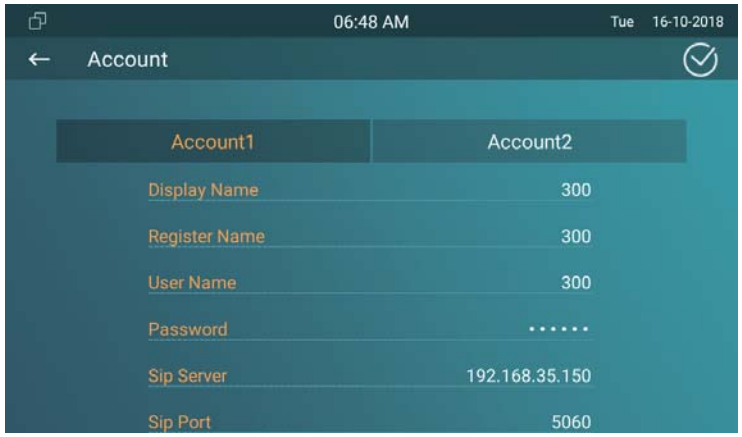


Figure 3.6.5-1 SIP server

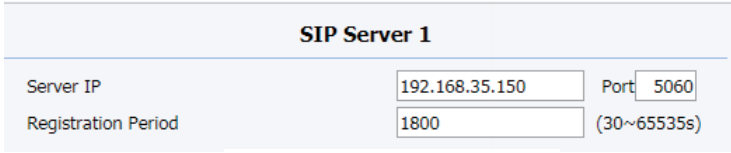


Figure 3.6.5-2 SIP server

3.6.6. Outbound Proxy Server

On the web portal, go to **Account** - **Basic** to setup outbound proxy server.

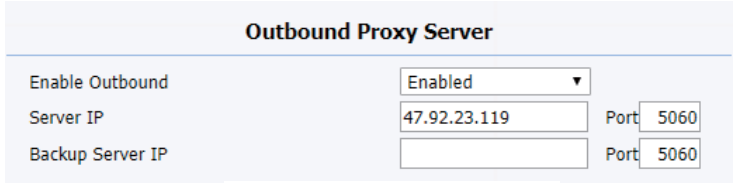


Figure 3.6.6-1 Outbound server

Outbound Proxy Server: To configure the proxy server to receive all initiating request messages and route them to the designated SIP server.

3.6.7. Transport Type

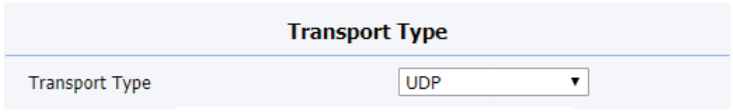


Figure3.6.7-1 Transport type

On the web portal, go to **Account** - **Basic** to setup transport type.

- UDP: UDP is an unreliable but very efficient transport layer protocol.
- TCP: Reliable but less-efficient transport layer protocol.
- TLS: Secured and reliable transport layer protocol.
- DNS-SRV: DNS record for specifying the location of services

3.6.8. Auto answer

On the web portal, go to **Account** - **Advanced** to enable /disable auto answer feature. It will auto answer all incoming calls if it is enabled.

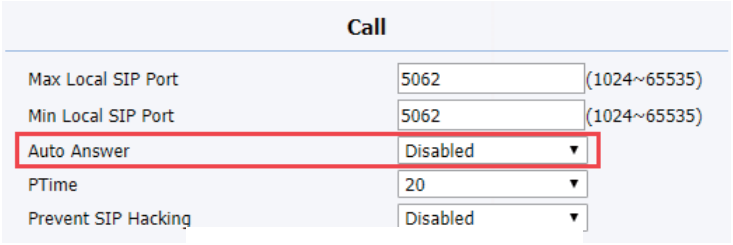


Figure3.6.8-1 Auto answer switch

Note: Auto answer is only available with SIP accounts.

On the web portal, go to **Phone - Call Feature** to setup auto answer whitelist. It will auto answer the incoming calls when the caller is in white list.

Device Location: To enter the device name /location.

SIP/IP: To enter the SIP /IP number of the corresponding devices.

Auto Answer WhiteList: To display the SIP /IP number stored in IT83X's white list.

Note: White list takes effect both SIP account and IP address.

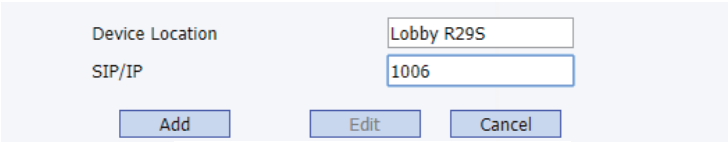


Figure3.6.8-2 Whitelist setting

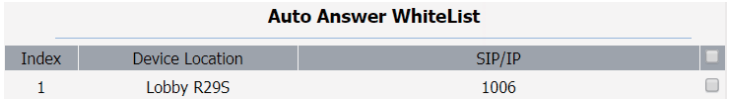


Figure3.6.8-3 Whitelist setting display

3.6.9. Assistance call

Assistance call is used to call out the emergency numbers in loop times when users need help. Users could choose to display SOS on the home /more page, please refer to chapter 3.4.10 about the feature display setting.

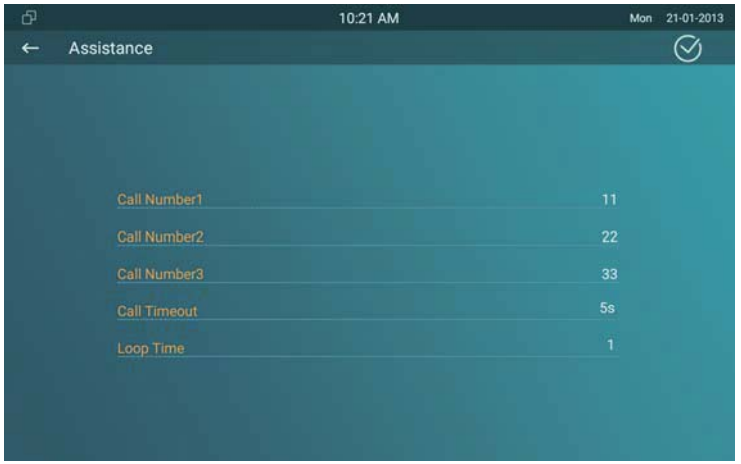


Figure3.6.9-1 SOS call

Call Number: To setup 3 SOS numbers. Once users press SOS key on the home page (SOS display key shall be set on the web manually), IT83X will call out the number in order.

Call Timeout: Setup the timeout for each number. Once users call out, if the other side will not answer within the timeout, IT83X will continue to call the next number.

Loop Times: To setup the call loop times.

3.6.10. Multicast

Multicast function could only be applied among indoor monitors. After configuration on the web portal, users could tap **All Call** on the home page of the device to make a call.

On the web portal, go to **Phone** - **Multicast**.

Multicast Setting: To set the IT83X in one of the groups or disable this function.

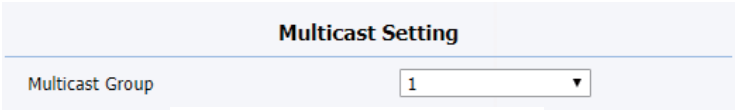


Figure3.6.10-1 Multicast group

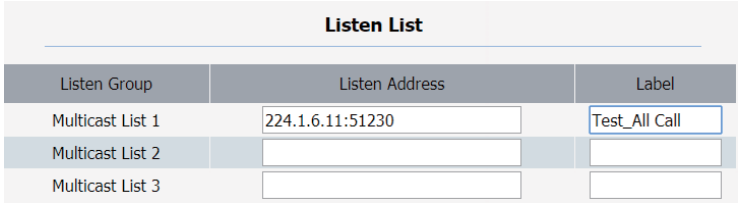


Figure3.6.10-2 Multicast address setting

Multicast List: To fill in the parameters of multicast group. IT83X will establish multicast calls to other indoor monitors which are set in multicast group.

Listen List: To fill in the parameters of listen group. IT83X will receive multicast calls if some indoor monitors call the listen group.

Label: To show the label name on the calling interface if users establish all call.

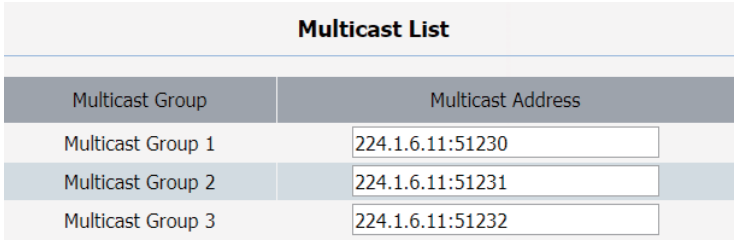


Figure3.6.10-3 Multicast group

3.7. Security

3.7.1. Monitor Settings

Monitor will help users to check real-time video of the surrounding environment of house.In the device, go to **More** - **Settings** - **More** - **Monitor**.

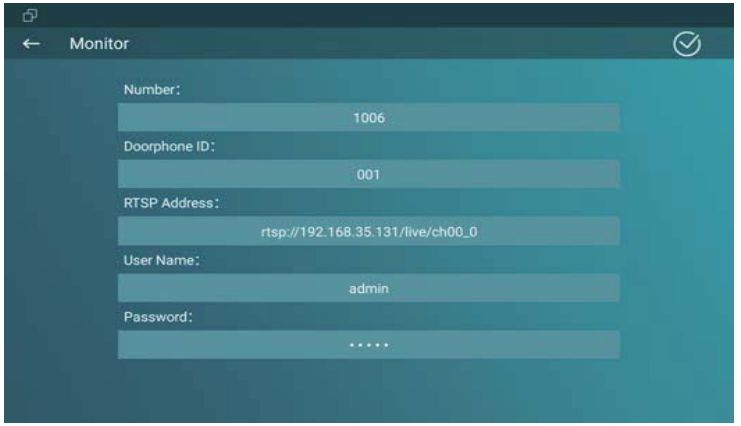


Figure3.7.1-1 Live view

Number: To enter the IP address/SIP number of the corresponding camera. Enter the RTSP or ONVIF URL of the door phone or IP camera.

Doorphone ID/Device Name: To enter the ID number of doorphone, which could be set by users.

RTSP Address/Destination URL: To set the RTSP URL for the door phone. The RTSP format of Akuvox door phone is **rtsp://device IP/live/ch00_0**.

User Name: To enter the user name if required.

Password: To enter the password if required.

On the web portal **Phone - Monitor,** users can also setup the monitor information.

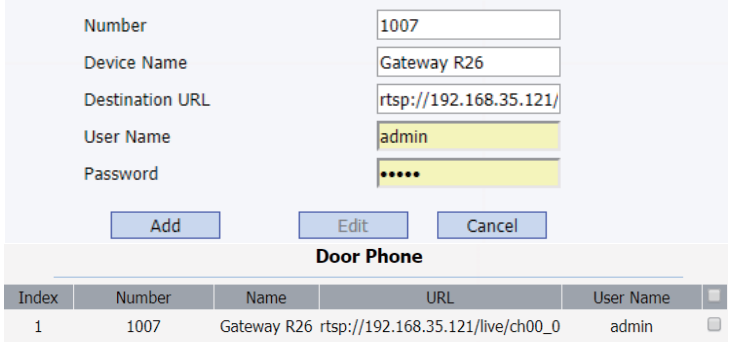


Figure3.7.1-2 Live view in web

Figure 3.9.2-1 Face ID

3.8. Access control

3.8.1. Face ID

On the device, go to **More** - **Settings** - **More** - **Face ID** to setup face ID to access to IT83X, which provides setting security.

- To implement face ID feature on IT83X, the **Screen Lock** on display setting interface should be enabled first.
- The whole process is actually self-explanatory, follow the indication to record users' face ID to IT83X.
- When screen lock is enabled, users could choose face ID or password (System code) to enter IT83X.

3.8.2. Local Relay

IT83X has NO/NC/COM three terminals which supports to connect locks by itself.

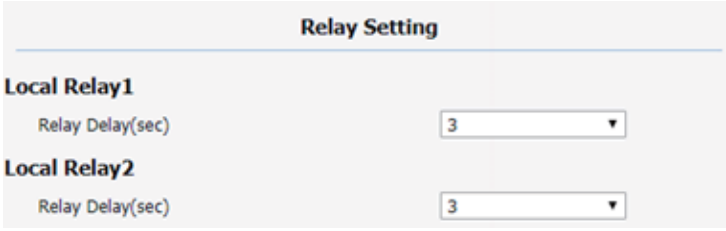


Figure3.8.2-1 Local relay setting

Go to **Phone-Relay**to setup the DTMF code of local relay in website.Users can press the **Unlock** key during the call.

Relay Delay: To set the delay time for local relay.

Status: To enable or disable the softkey in talking page.

Display Name: To modify the display name of unlock icons in talking page.

Relay: To set the relay type, including local relay 1/2, remote relay HTTP and remote relay DTMF.

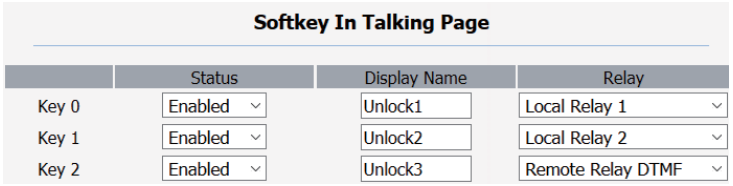


Figure3.8.2-2 Relay display

3.8.3. Remote relay

IT83X can use the unlock key during the call to open the door in doorphone's site. Users need to setup the same DTMF code in the door phone and indoor monitor.

Remote Relay: To set DTMF code for remote relay, which is "#" by default.

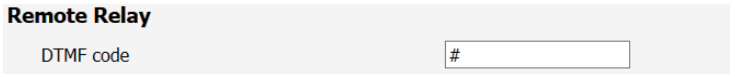


Figure3.8.3-1 Remote relay setting

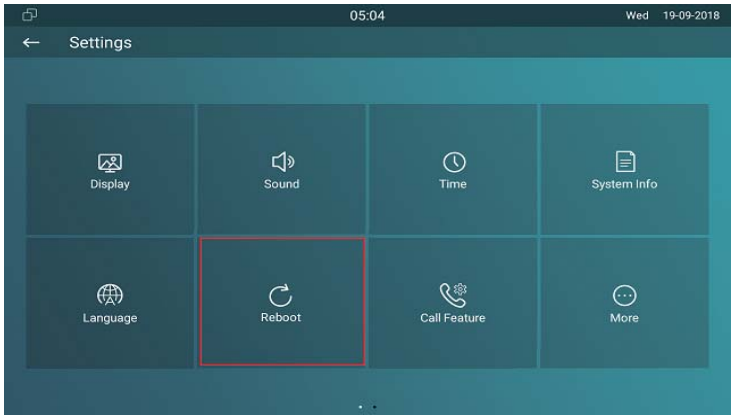


Figure3.8.4-1 Reboot

3.8.4. Reboot

On the device, go to **More** - **Settings** - **Reboot**.

- Click the **Reboot** icon to reboot the device.

One the web portal **Upgrade** - **Basic** - **Reboot,** users can also reboot the device.

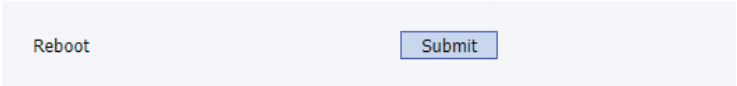


Figure3.8.4-2 Web reboot

3.8.5. Reset

On the device, go to **More** - **Settings** - **More**.

Reset To Factory Setting: Reset all data to factory settings.

Reset Config To Factory Setting: Reset all configurations (in the directory /data/data/config) which only be used by IT83X to factory settings. But like 3rd party application which users installed, contacts which users added, such kind of data will not be reset.

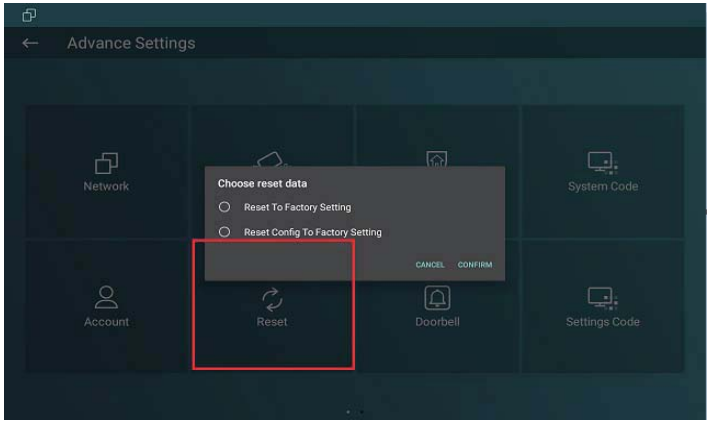


Figure3.8.5-1 Reset

On the web portal **Upgrade** - **Basic**, users can also store the device.

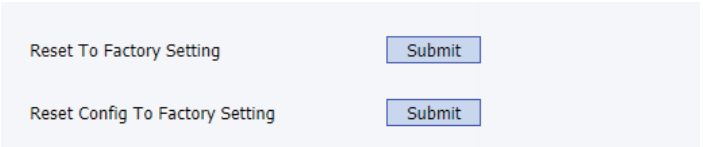


Figure3.8.5-2 Web reboot

4. Advanced Features

4.1. Phone Configuration

4.1.1. Installing Custom APK

Figure 4.1.1-1 Install APK

Users could choose to display **Custom APK** (The 3rd party Android app) on the home/more page, which provides users easier access

to their own application. On the web portal, go to **Upgrade** - **Key/Display**.

Package Name: To fill in the package name of APK (For example: com.akuvox.mobile.smartplus).

APP Class Name: To fill in the class name of APK (For example: com.akuvox.mobile.module.main.view.SplashActivity).

Start Up Enable: To choose whether APK should start up automatically when power up.

Turn Back Apk Enable: To choose whether turn back APK without operating for some interval.

Intervals Without Operating: To choose how much time to turn back APK without operating.

Show App Icon: To choose whether to show APP icon on the home interface or not.

4.1.2. Discovery setting

If **Discovery** mode is adopted, users don't need to configure the devices by themselves. IT83X will scan automatically all types of the devices on the same discovery node.

On the device, go to **More** - **Settings** - **More** to configure the discovery mode and location name. **Discovery Node/Device Address:** To indicate the locations of the device (For example, device address 1.1.1.1.1 means that this device is located in Community 1, Building 1, Unit 1, Floor 1, Room 1).

Discovery Extension/Device Extension: To display the extension number of the device.

Location/Device Location: To enter the name/location to distinguish devices from each other.

On the web portal **Network** - **Advanced**, users can also make changes to the device connecting node.

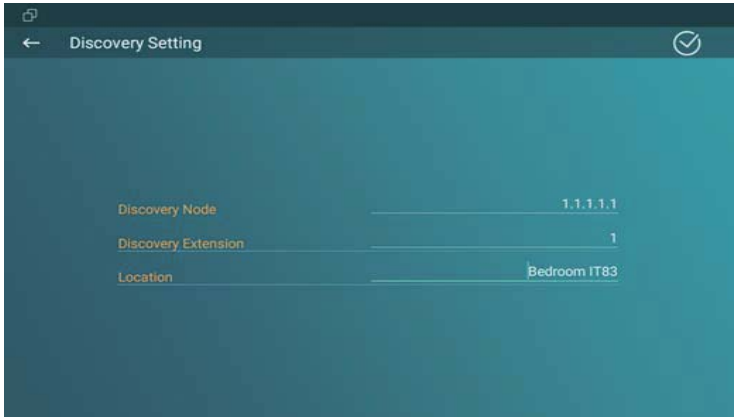


Figure 4.1.2-1 Discovery setting

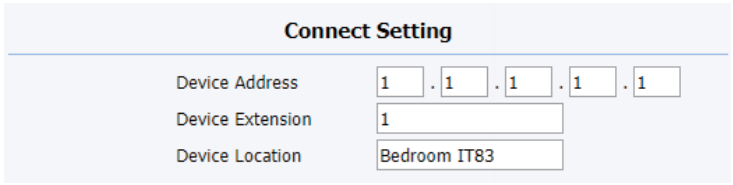


Figure 4.1.2-2 Discovery setting in web

4.2. Intercom

4.2.1. Call Forwarding

On the device, go to **More** - **Settings** - **Call Feature**.

Account: To choose which account shall implement call forwarding feature.

Always forward: All the incoming calls will be forwarded unconditionally to a specified number.

Busy Forward: The incoming calls will be forwarded to a specified number when IT83X is busy.

No answer Forward: The incoming calls will be forwarded to a specified number when the ring tone is time out without answering.

Always/Busy/No answer Forward: Tick which forward users want to setup.

Forwarding Number: Enter the target numbers which users want to forward.

Figure 4.2.1-2 Web Forward

On/off Code: The code used to turn on/off forward feature on server's side, if configured, IT83X will send a sip message to server to turn on/off forward feature on server side if users press forward when forward feature is off/on.

On the web portal, go to **Phone** - **Call Feature**，users can also setup it.

4.2.2. Intercom

Intercom: To allow users establishing a call directly with the callee.

Active: To enable or disable Intercom function.

Intercom Mute: To eliminate the voice of the callee if enabled.

Intercom Preview: To enable preview function.

Figure 4.2.2-1 Intercom

4.2.3. Subscribe

On the web portal, go to **Account** - **Advanced** - **Subscribe**.

Subscribe: To display and configure MWI, subscription settings.

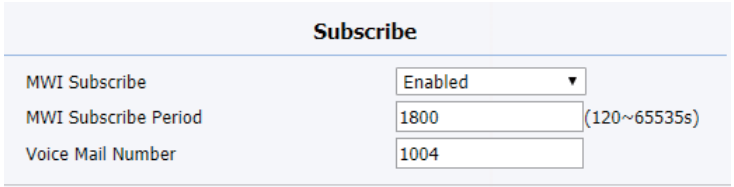


Figure 4.2.3-1 Subscribe

MWI Subscribe: To enable or disable message waiting indicator function.

MWI Subscribe Period: To setup the time of MWI function.

Voice Mail Number: To fill in the voice mail number.

4.2.4. Audio Codec

On the web portal, go to **Account** - **Advanced**.

Audio Codecs: To configure the disabled codecs and enabled codecs by pressing the corresponding buttons. Codec means coder-decoder which is used to transfer analog signal to digital signal or vice versa.

4.2.5. Video Codec

On the web portal, go to **Account** - **Advanced**.

Video Codec: To configure the disabled codecs and enabled codecs by pressing the corresponding buttons.

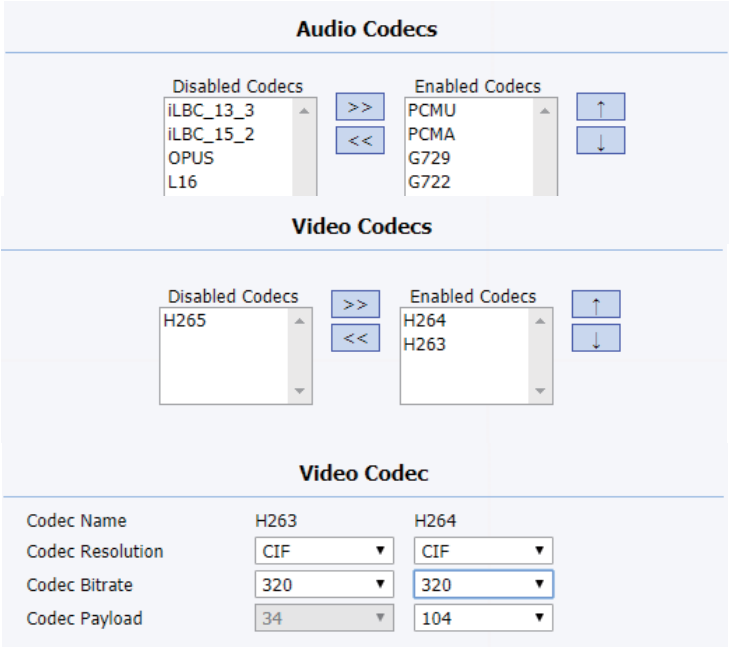


Figure 4.2.5-1 Video codec

Codec Resolution: To adjust the resolutions for different video codecs.

Codec Bitrate: To adjust the bitrate for different video codecs.

Codec Payload: To adjust the codec payload for video codec.

4.2.6. NAT

On the web portal, go to **Account** - **Advanced**.

UDP Keep Alive Message: To send UDP keep alive message periodically to router to keep NAT port alive if enabled.

UDP Alive Msg Interval: To Keepalive message interval.

RPort (Remote Port): To add remote port in to outgoing SIP message for designated account if enabled.

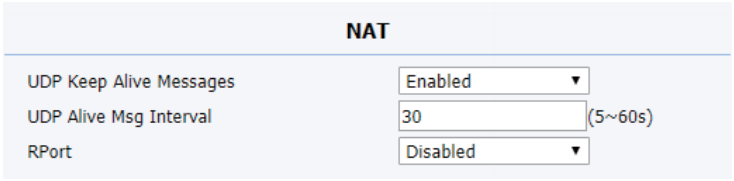


Figure 4.2.6-1 NAT

4.2.7. User Agent

On the web portal, go to **Account** - **Advanced**.

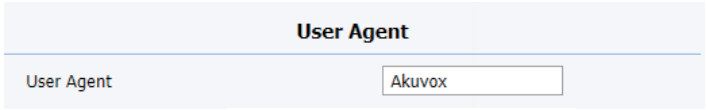


Figure 4.2.7-1 User agent

User Agent: To customize user agent field in the SIP message. If user agent is set to specific value, users could see the information from SIP message. If user agent is not set by default, users could see the company name, model number and firmware version from SIP message.

4.2.8. DTMF

On the web portal, go to **Account** - **Advanced**.

DTMF: To configure RTP audio video profile for DTMF and its payload type.

Type: Support Inband, Info, RFC2833 or their combination.

How To Notify DTMF: Only available when DTMF Type is Info.

DTMF Payload: To configure payload type for DTMF.

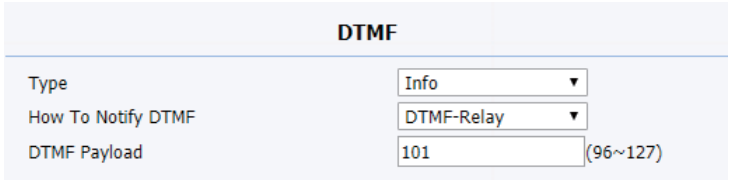


Figure 4.2.8-1 DTMF

4.2.9. Encryption

On the web portal, go to **Account** - **Advanced**.

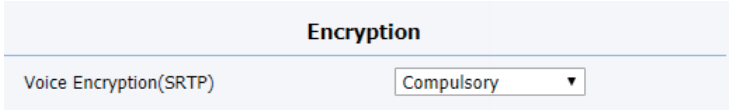


Figure 4.2.9-1 Encryption

Voice Encryption(SRTP): If enabled, all audio signal (It's RTP streams indeed) will be encrypted for more security.

4.2.10. Call Related

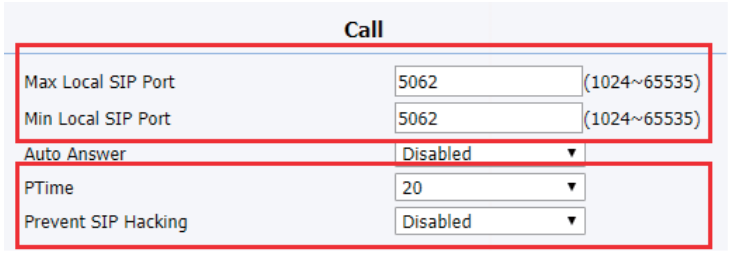


Figure 4.2.10-1 Call related

Max/Min Local Sip Port: To configure maximum /minimum local SIP port for designated account.

PTime: Interval time between two consecutive RTP packets.

Prevent SIP Hacking: Enable to prevent SIP from hacking in the Internet.

4.2.11. Remote Control

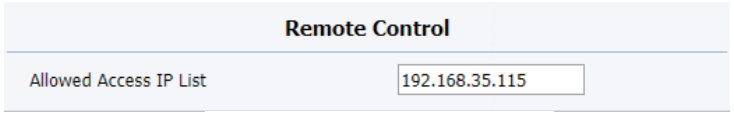


Figure 4.2.11-1 Remote control

On the web portal, go to **Phone** - **Call feature**.

Remote Controlcould allow specific host to interact with IT83X by sending HTTP or HTTPS requests. The specific action could be answering an incoming call, hangup an ongoing call and so on.

Allowed Access IP List: To configure the IP address of allowed host.

4.2.12. Session Time Out

Session Time Out: To set the time out value, the ongoing call will be disconnected automatically if session time out.

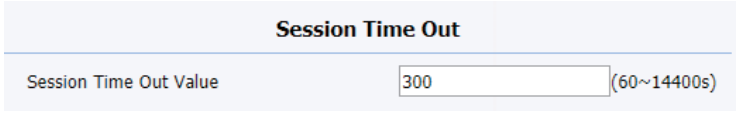


Figure 4.2.12-1 Session time out

4.3. Access Control

4.3.1. Web Relay

Figure 4.3.1-1 Web relay

On the web portal, go to **Phone** - **Relay** - **Webrelay**.

IP Address: To fill in the IP address of web relay.

UserName: To fill in the user name of the web relay.

Password: To fill in the password of the web relay.

4.3.2. Remote Relay by HTTP

On the web portal, go to **Phone** - **Relay**.

Remote Relay By HTTP: To configure the parameters to trigger a certain remote relay of door phone by sending http message, which also requires the configurations on door phone.

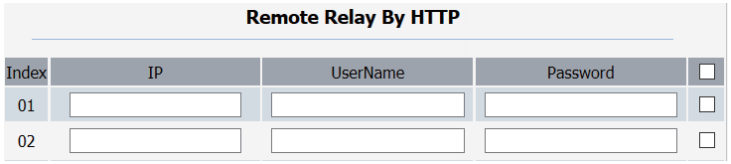


Figure3.9-1 Remote relay by HTTP

4.4. Security

4.4.1. Arming Zone Setting

On the device, go to **More** - **Settings** - **More** - **Arming**.

Arming function is very useful for home safety. IT83X supports 8 zones to connect different alarm detection devices for different zones. IT83X does not provide the power for detection devices, connecting the GND and IOX terminal (For example,enable the zone 1, users need to connect IO1 and GND).

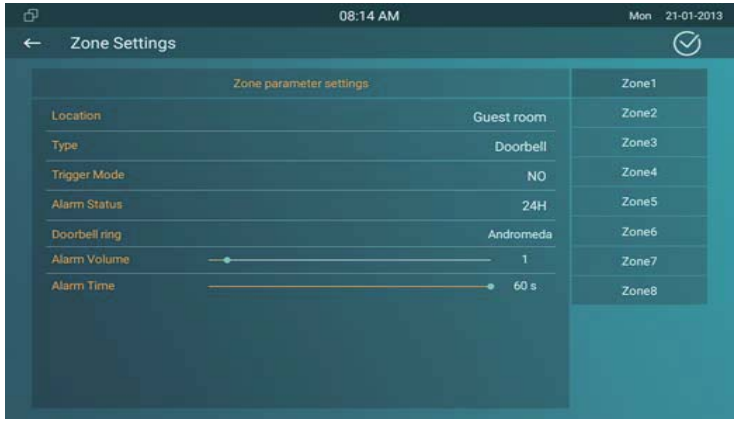


Figure 4.4.1-1 Zone setting

Location: To select which location the detection device is in, including Bedroom, Guest room, Hall, Window, Balcony, Kitchen, Study and Bathroom.

Type: To select which type of detection device is, including Infrared, Drmagnet, Smoke, Gas and Urgency..

Trigger Mode: To setup triggering mode for the sensor, including NO (normal open) and NC (normal closed).

Alarm Status: To setup status of alarm sensor, including enable, disable and 24H.

Note: Disable status of detector means it cannot be triggered, 24H status means it cannot be disabled. Enable status means it depends on arming mode.

4.4.2. Motion Detector

Users could choose to display **Motion Detector** on the home/more page, please refer to chapter 3.4.10. IT83X could

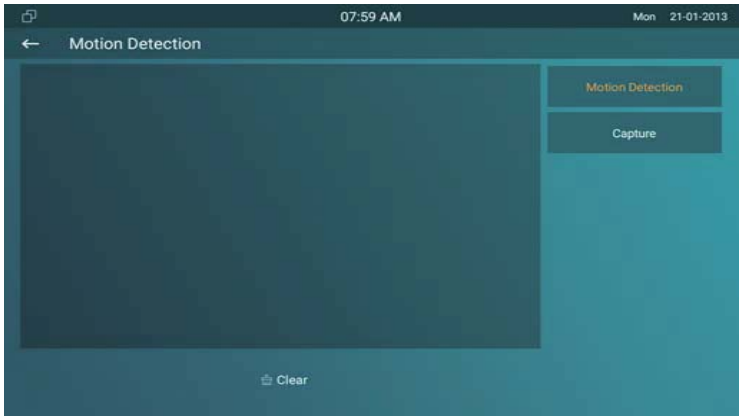


Figure 4.4.2-1 Motion detection

receive the captured motion pictures from the door phone, which requires the configurations on door phone.

4.5. Upgrade

4.5.1. Basic Upgrade

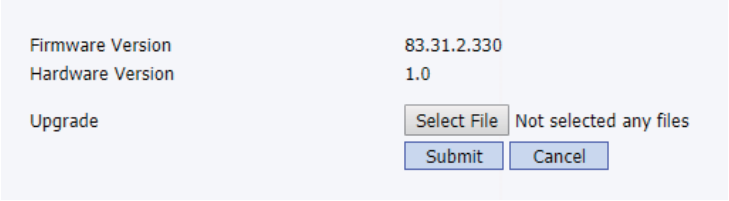


Figure 4.5.1-1 Basic upgrade

On the web portal, go to **Upgrade** - **Basic**.

Firmware Version: To display the firmware version at present.

Hardware Version: To display the hardware version at present.

Upgrade: To select the upgrading file from PC manually.

Submit: To submit the upgrading file to IT83X.

Cancel: To cancel submitting the upgrading file.

4.5.2. Autop

Autop (Auto-Provisioning), this feature is used to configure or upgrade IT83X in batch via the support of third party servers.

To use DHCP/PNP/TFTP/FTP/HTTP/HTTPS servers to get URL, and then download firmware and/or its corresponding configuration files from servers. These configuration files and firmware will be used to update firmware and the corresponding parameters on the phone.

4.5.2.1. PNP Autop

PNP (Plug and Play): To enable or disable Plug and Play feature, which will send SIP subscription message to PNP server automatically to get auto provisioning server's address if enabled. By default, this SIP message is sent to multicast address 224.0.1.75(PNP server address by standard).

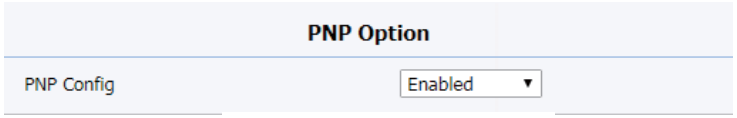


Figure 4.5.2.1-1 PNP Option

4.5.2.2. DHCP Autop

DHCP Option: To use designated DHCP option to get auto provisioning server's address via DHCP.

4.5.2.3. Manual Autop

Manual Autop: To display and configure manual update server's settings.

URL: To fill in the Auto provisioning server address.

User Name: To fill in the user name if server needs an username to access, otherwise left blank.

Password: To fill in the password if server needs a password to access, otherwise left blank.

Common AES Key: To decipher common auto provisioning configuration file for IT83X.

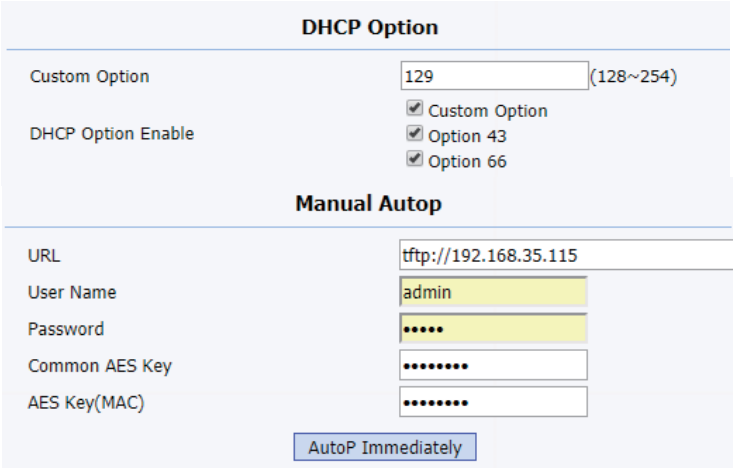


Figure 4.5.2.3-1 Manual autop

AES Key (MAC): Used for IP phone to decipher MAC-oriented auto provisioning configuration file(For example, file name could be 0C1105888888.cfg if IT83X's MAC address is 0C1105888888).

Notes:AES is one of many encryption, it should be configured only when configure file is ciphered with AES, otherwise left blank.

4.5.2.4. Automatic Autop

Automatic Autop: To display and configure auto provisioning mode settings. It is actually self-explanatory.For example, mode "Power on" means IT83X will go to do provisioning every time it powers on.

Note: Please check more details in autop feature guide .

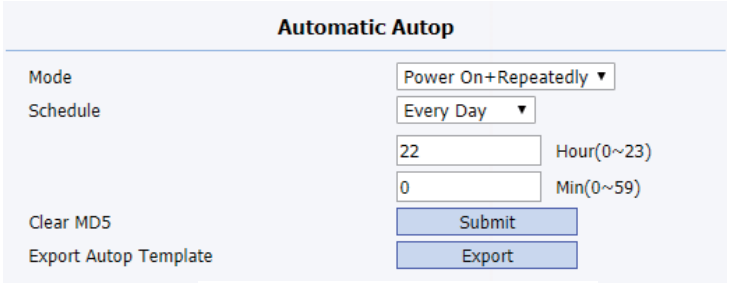


Figure 4.5.2.4-1 Automatic autop

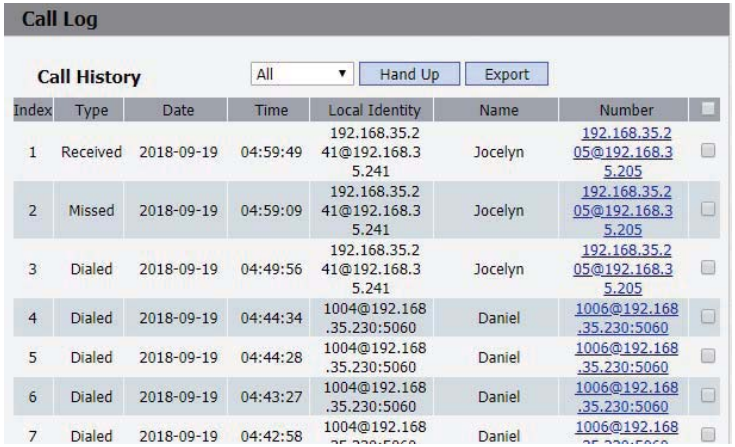


Figure 4.6.1-1 Call log

4.6. Logs

4.6.1. Call log

On the web portal, go to **PhoneBook** - **Call Log**. Users are able to view all /dialed /received /missed /forwarded calls.

Call History: To select which kind of calls users want to view, including dialed, received, missed and forwarded.

Export: To export the call log.

4.6.2. System Log

On the web portal, go to **Upgrade** - **Advanced**. System log provides a professional method for administrator to debug .

System Log: To display system log level and export system log file.

Log level: To adjust the system log level, which ranges from 0 to 7 and it is 3 by default.The higher level means the more specific system log is saved to a temporary file.

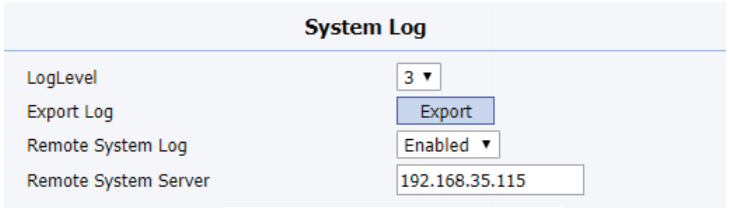


Figure 4.6.2-1 System log

Export Log: To export temporary system log file to local PC.

Remote System Log: To enable/disable remote system Log.

Remote System Server: To input the syslog server address.

4.6.3. PCAP

On the web portal, go to **Upgrade** - **Advanced** - **PCAP**. PCAP is a network packet capture tool in IT83X itself, which provides an efficient method to troubleshoot network problems.

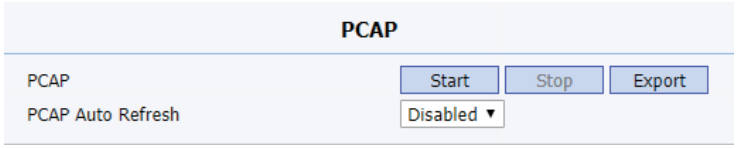


Figure 4.6.3-1 PCAP

PCAP Start: To start PCAP if users click **Start** button.

PCAP Stop: To stop PCAP if users click **Stop** button.

Export: To export the PCAP after capturing of packets.

PCAP Auto Refresh: To enable or disable PCAP auto refresh.

Abbreviations

ACS: Auto Configuration Server

Auto: Automatically

AEC: Configurable Acoustic and Line Echo Cancelers

ACD: Automatic Call Distribution

Autop: Automatical Provisioning

AES: Advanced Encryption Standard

BLF: Busy Lamp Field

COM: Common

CPE: Customer Premise Equipment

CWMP:CPE WAN Management Protocol

DTMF: Dual Tone Multi-Frequency

DHCP: Dynamic Host Configuration Protocol

DNS: Domain Name System

DND: Do Not Disturb

DNS-SRV: Service record in the Domain Name System

FTP: File Transfer Protocol

GND: Ground

HTTP: Hypertext Transfer Protocol

HTTPS: Hypertext Transfer Protocol Secure

IP: Internet Protocol

ID: Identification

IR: Infrared

LCD: Liquid Crystal Display

LED: Light Emitting Diode

MAX: Maximum

POE: Power Over Ethernet

PCMA: Pulse Code Modulation A-Law

PCMU: Pulse Code Modulation μ-Law

PCAP: Packet Capture

PNP: Plug and Play

RFID: Radio Frequency Identification

RTP: Real-time Transport Protocol

RTSP: Real Time Streaming Protocol

MPEG: Moving Picture Experts Group

MWI: Message Waiting Indicator

NO: Normal Opened

NC: Normal Connected

NTP: Network Time Protocol

NAT: Network Address Translation

NVR: Network Video Recorder

ONVIF: Open Network Video Interface Forum

SIP: Session Initiation Protocol

SNMP: Simple Network Management Protocol

STUN: Session Traversal Utilities for NAT

SNMP: Simple Mail Transfer Protocol

SDMC: SIP Devices Management Center

TR069: Technical Report069

TCP: Transmission Control Protocol

TLS: Transport Layer Security

TFTP: Trivial File Transfer Protocol

UDP: User Datagram Protocol

URL: Uniform Resource Locator

VLAN: Virtual Local Area Network

WG: Wiegand

Contact us

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We highly appreciate your feedback about our products.