FLYINGVOICE i86V Series Advanced SIP Video and Audio Intercom User Guide

FLYINGVOICE

i86V Series
User's Guide

Contents

i86V Series Advanced SIP Video and Audio Intercom


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Warranty

1. Warranty

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Declaration of Conformity

Part 15 FCC Rules

This device complies with Part 15 of the FCC Rules. Operation is subject to the following three conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.
- The distance between user and products should be no less than 20cm

Note: This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user’s authority to operate this equipment.

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

CE

Manufacturer: Flyingvoice Network Technology Co., Ltd.

Address: 1801-1802, Building 1, Chongwen Park, Nanshan Zhiyuan, Nanshan District, Shenzhen, China

Hereby, Flyingvoice Network Technology Co., Ltd. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU

A copy of the declaration of conformity can be obtained with this user guide; this product is not restricted in the EU.

The wireless operation frequency

WIFI: 2412MHz-2472MHz, EIRP Power ≤20dBm

Safety warning and Attentions
If use adapter, adapter must be comply 2014/30/EU Directive.
Adapter Caution: Adapter shall be installed near the equipment and shall be easily accessible.
Do not store or use your product in temperatures higher than 50ºC.
RF Exposure Statement
The distance between user and products should be no less than 20cm.

GNU GPL INFORMATION
Flyingvoice phone firmware contains third-party software under the GNU General Public License (GPL).
Flyingvoice uses software under the specific terms of the GPL. Please refer to the GPL for the exact terms and conditions of the license.
The original GPL license, source code of components licensed under GPL and used in Flyingvoice products can be downloaded online: **https://www.flyingvoice.com/soft_GPL.aspx**

Risk Warning Statement
This risk warning statement contains a summary of external network servers that FVUI will access under its factory settings in order to obtain necessary service support. If you want to prohibit these accesses based on security considerations, you can disable them through the WEB management page.

Number	Server Domain Name	Description	Factory Setting
1	https://prv3.flyingvoice.net:442	Flyingvoice Provision web management configuration server	Enable
2	prv3.flyingvoice.net:3450	Flyingvoice Provision web management stun server	Enable
	https://prv4.flyingvoice.net	Flyingvoice Provision web management backup server	Enable
	log3.flyingvoice.net:9005	Flyingvoice Provision web management log server	Disable
3	http://acs3.flyingvoice.net:8080	Flyingvoice TR069 web anagement server	Disable
	acs3.flyingvoice.net:3478	Flyingvoice TR069 web anagement server	Disable
4	pool.ntp.org/cn.pool.ntp.org	NTP server	Enable
	https://rps.flyingvoice.net	Flyingvoice Provision redirect server	Enable

Chapter 1 Forewords

The i86V is a SIP audio & video terminal intercom. It has a exquisite appearance, clear and high-definition voice, and provides users with high-quality communication intercom services. And its dust-proof and water-proof level meets the IP65 standard, which is
applicable to indoor and outdoor to use. It integrates intelligent security, audio intercom, video surveillance and broadcasting functions to meet the needs of industry users for one key help, one key unlock, two-way intercom, real-time broadcasting, etc.
This guide is designed to help you be familiar with the functions of the i86V intercom quickly.
Firstly, please confirm with your system administrator that the network deployment related to the i86V intercom has been completed.
Secondly, you can find the Quick Start Guide in the box and read it carefully before installing and using the i86V intercom. Some of the functions described in this article need to be configured by the administrator or are limited to your i86V intercom environment previously, so please be aware that some functions may be disabled or the

description is not completely consistent with the implementation operation.
The examples or pictures in this guide are for reference only.

Instruction
This user‘s Guide contains the following information about Flying Voice products:

- i86V-01
- i86V-02

Chapter 2 Overviews

Before using the intercom, we recommend you to familiarize with the appearance and interface of the i86V intercom. Except for the special instructions in the guide, the other way around is similar to a normal phone.This chapter gives an overview of the i86V intercom, including the following:

- Appearance Introductions
- Interface Introductions
- Package Contents
- Documents

For further information and support, please contact your system administrator.

2.1 Appearance Introductions

The main hardware components of the i86V (including i86V-01 and i86V-02) are as follows:

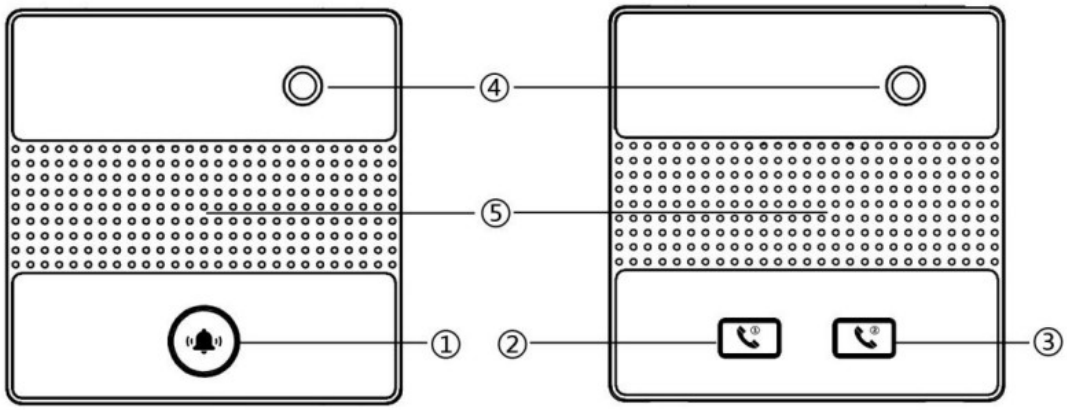


Figure 2-1 (Front)

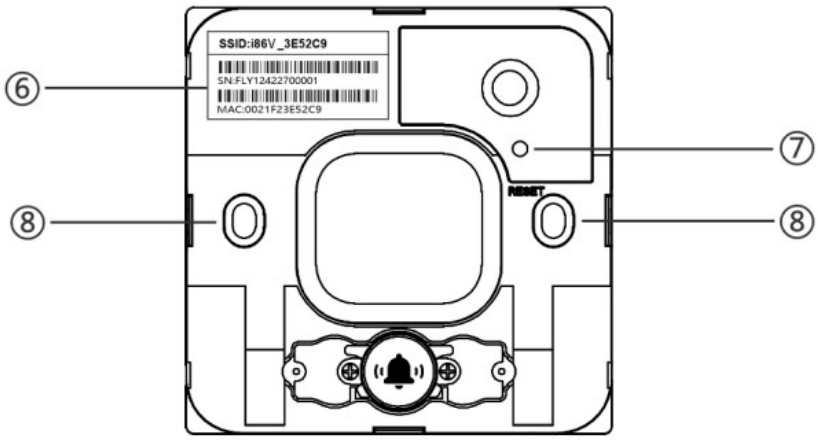


Figure 2-2 (Remove the cover)

The main hardware components of the i86V intercom are described as follows:

Serial Number	Name	Instructions
1	Middle Key	Definition: Dialing Key, answering key One key intercom call, off hook or on hook
2	Left Key	Definition: Dialing key, answering key One key intercom call, off hook or on hook
3	Right Key	Definition: Door opening key or multi-function key Door opening, speed dial or other advanced function s can be configured
4	Camera	Surveillance camera (Default enabled)
5	Speaker	Intercom Speaker
6	Fuselage Sticker	SSID: Wireless WiFi Name SN: Product ID MAC: MAC Address
7	Reset Key (The cover needs to bere moved)	Functions: 1. Restore factory settings 2. Turn on WiFi
8	Screw Hole	type-86 Box Screw Hole Position

2.2 Interface Introductions

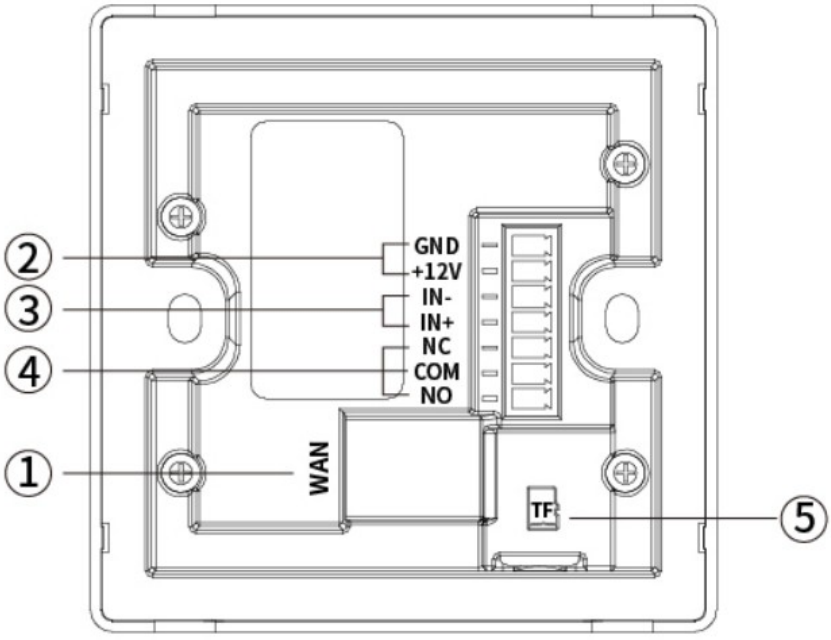


Figure 2-3 (Back)

The interface on the back of the i86V intercom is described as follows:

1	WAN Interface	10/100M Network Interface Support PoE to input
2	Power Interface	12V/1A (Input/Output)
3	Short Circuit Input Interface	Used to connect switches, infrared probes, vibration sensors and other input device Input+: Input Positive Pole Input-: Input Negative Pole Rated voltage of input interface 12V
4	Short Circuit Output Interface	Used to control electric locks, alarms, etc NC: Connected in idle state (normally closed) COM: Contact of relay (Common) NO: Disconnected in idle state (normally open) Default NC/COM connection, rated voltage: 12V, maximum voltage: DC30V/1A, AC125V/0.3A
5	TF Card Interface	TF memory card can be inserted

2.3 Package Contents

Serial Number	Name	Quantity
1	i86V-01 or i86V-02	1
2	Connector	1
3	Small Screwdriver	1
4	Screws	2
5	Quick Installation Guide	1

2.4 Documents

The user's documents available for the i86V series are:

Name	Content	Position	Language
Quick InstallationGuide	Installation steps and basic configuration of i86V series	Package	Chinese or English
		Flyingvoice Official Website	Chinese or English
User's Guide	Intercom introductions, basic functions and advanced functions and configuration	FlyingVoiceOfficial Website	Chinese or English

Chapter 3 Getting Started with Users

This chapter describes how to get started with the i86V, including the following:

- Device Installations
- Quick Settings

For further information and support, please contact your system administrator.

3.1 Device Installations

3.1.1 Wiring

1. If PoE power supply is needed, plug the network cable into the WAN interface.
2. If powered by 12V DC, connect the power cord and the connector and plug in the device.
3. To use the access control function, please refer to the following picture:

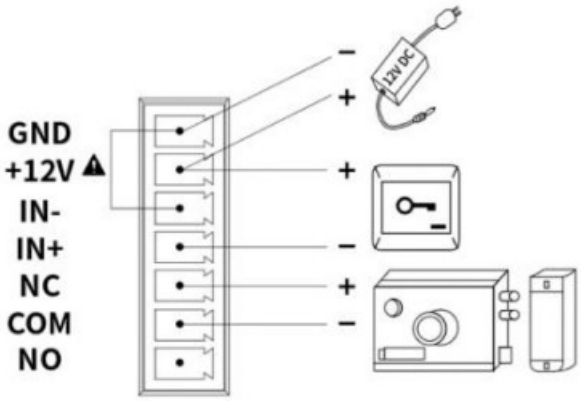


Figure 3-1

4. By default, NC-COM is in the channel state and NO-COM is in the open circuit stat at the output interface. If you need to use an input interface, you can connect the device to the output interface according to your specific needs. The following is an example of door lock device wiring:
   1 Power on normally closed door lock: refer to Figure 3-1 and connect the door lock to NC and COM.
   2 Power on normally open door lock: connect the door lock to the NO-COM interface.
5. To use the input interface, there are two wiring methods, which are selected according to your device conditions, as follows:
   1 For passive device (without power supply device), refer to Figure 3-1 and connect the switch.
   2 For active device (with its own power supply device), refer to Figure 3-2 and connect the switch.

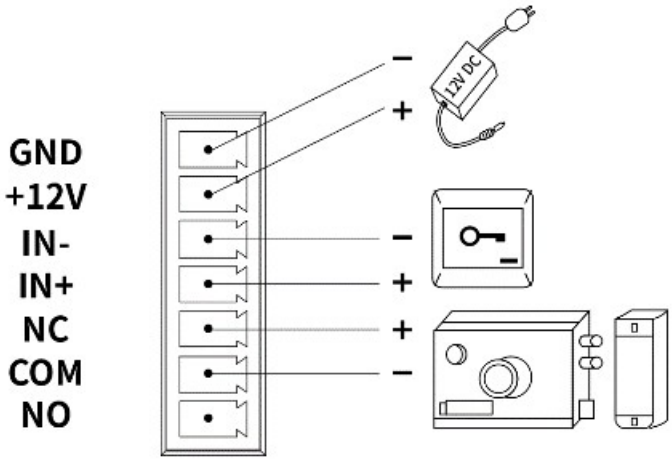


Figure 3-2

6. After wiring, install the i86V device and 86 bottom box.

3.1.2 i86V Bottom Box Installation

The i86V can be installed using a standard type-86 bottom box

Installation Process:

a. After all wires are connected from the 86 bottom shell, start the installation.

b. During installation, first remove the cover, and then install the main device into the bottom box.

c. Screw two screws into the screw holes of the 86 bottom box through the holes of the main device, and tighten them with a screwdriver, as shown in the following figure.

d. Finally, install the cover to complete the panel installation.

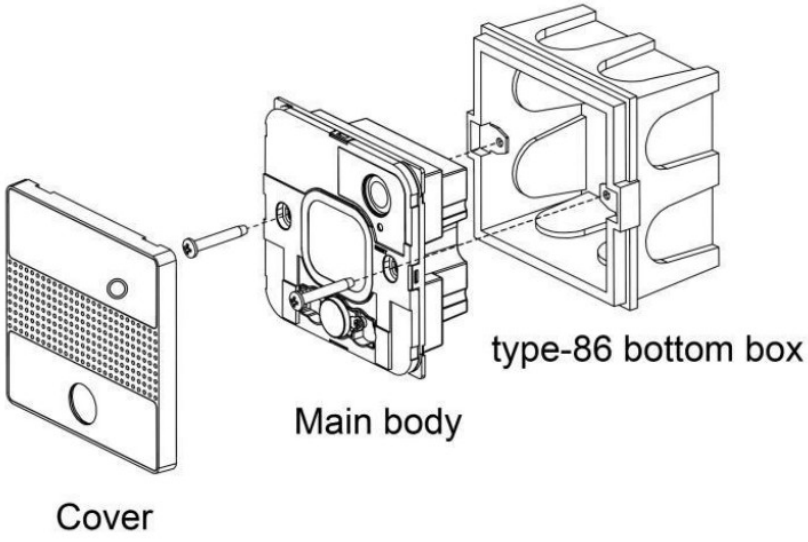


Figure 3-3 (Installation demonstration)

3.1.3 Device Boot

After the device is connected and powered on, it should wait for the device to start normally.

The device starts successfully when the welcome tone is heard.

3.2 Quick Settings

3.2.1 Get Device IP

Broadcast IP Mode

1. Before setting, please confirm whether your device is connected to the network cable, and ensure that the network cable connected to your device can be connected to the network, and finally complete the connection of network hardware.
2. By default, the device will automatically obtain your IP address. You can press and hold the dial key of the device for 5s, then the i86V will play the IP address of the device by voice. After that, you can check whether you have received the IP address assignment.

   The factory default network mode, IPv4 address mode, is the dynamic DHCP mode.

3.2.2 Web Page Management

Method 1: PC accesses the device management page

When the device and your computer are successfully connected to the network, enter the IP address of the device WAN interface in the browser **http://xxx.xxx.xxx.xxx/**, enter the account password, and then jump to the web page for configuration. To use it as an access control device, please timely modify the device user name/password after successful login.

1. Open a web browser on your computer.
2. Enter the IP address of the phone (IPv4 address: 192.168.1.100, for example) in the address bar of the browser, and press Enter.

3. Enter the user name and password in the login interface (the default administrator user name/password is admin/admin).
4. Click Login.

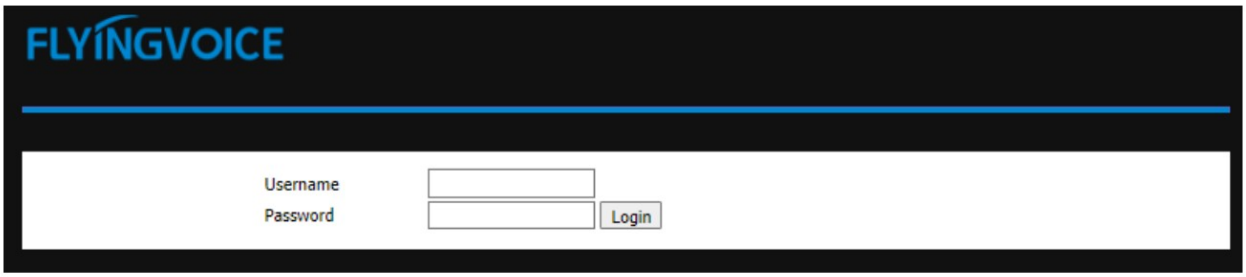


Figure 3-4 (Web login interface)

Method 2: WiFi Configuration of i86V

1. You can briefly press the Reset button of the i86V, and the i86V will broadcast a prompt that Wi-Fi is on. At this time, the i86V WiFi can scan through other devices.
2. You can connect the WiFi of the i86V through your mobile phone or PC. After connecting, you can open the cover of the i86V to view the WiFi SSID (i.e. WiFi name), such as the i86V_ 2E5229
3. After successfully connecting to the WiFi of the i86V, you can use your mobile phone or PC browser to access 192.168.15.1, and then you can access the device management interface.
4. Enter the user's name and password in the login interface (the default administrator user's name/password is admin/admin).
5. Click Login.

3.2.3 Account Registration

The i86V device needs to complete the account configuration correctly to use the inbound and outbound functions. Users can configure lines in the background of the device's web page configuration.
Find the VoIP ->account on the webpage to configure the account.

1. Line enable ->enable.
2. Enter the corresponding information in the display name, registered name, user name, password, SIP server and interface number respectively. You can consult your administrator to obtain the registration information.
3. After the configuration is completed, click Save & Apply below to view the registration status.

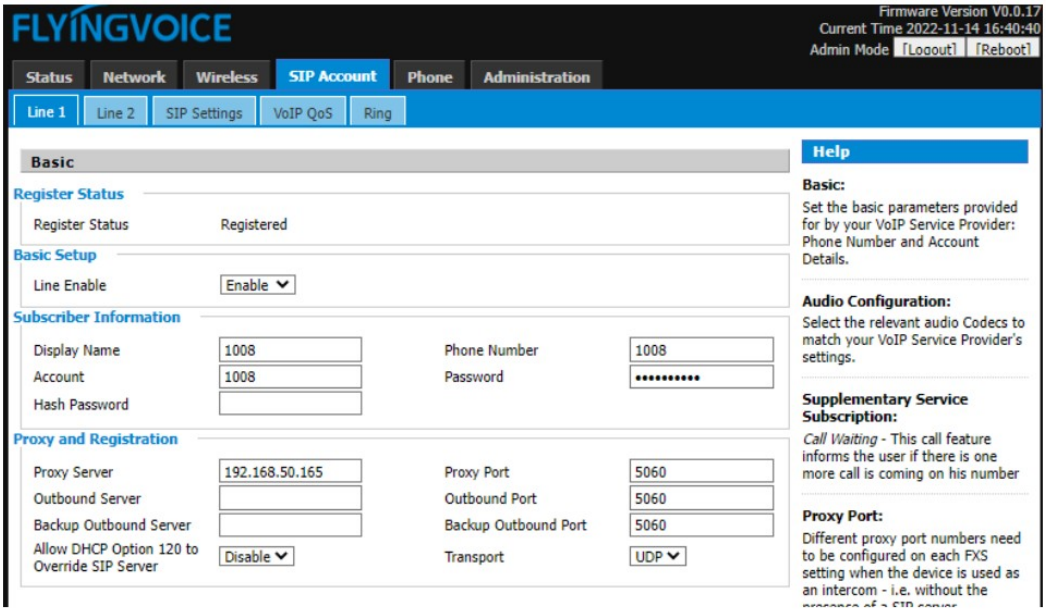


Figure 3-5 (Wire configuration interface)

Chapter 4 Basic Functions

This chapter describes the basic functions of the i86V, including the following:

- Make a Call
- Answer a Call
- Hang Up the Phone
- Auto Answer
- Function Keys Setting

If you want more information and help, please contact your system administrator.

4.1 Make a Call

Before the i86V makes a call, you need to register the extension number of the local phone, set the speed dial through the function keys, and preset the opposite extension number or IP address to achieve one touch call.

4.1.1 Number Speed Dialing

Speed dial configuration

1. Enter the management configuration interface and register the local extension number
2. Open Web page ->Phone ->Function key
3. Select “SpeedDial” in the corresponding key type, and fill in the opposite extension number in the value
4. You can also fill in the extension number remarks in the label
5. Click Save to make one click call through i86V

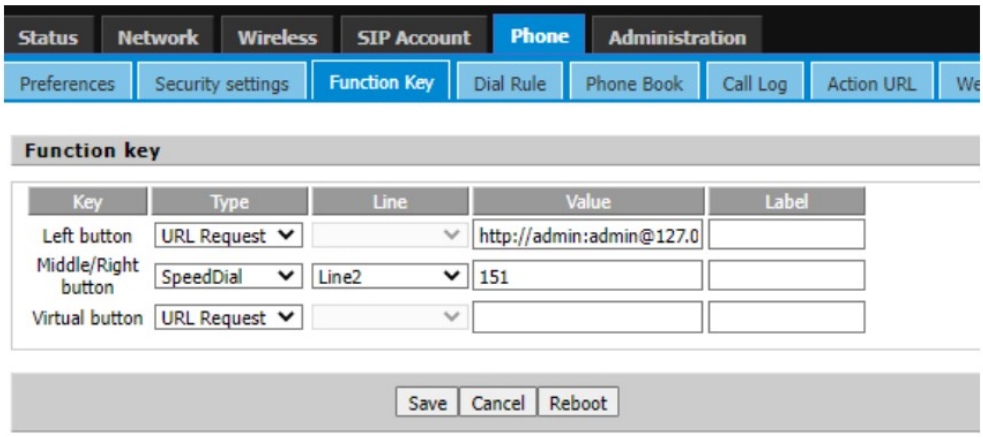


Figure 4-1

4.1.2 IP Direct Dialing

In the same LAN, in an environment without a SIP server, you can set the IP direct dialing, and then dial the opposite IP addresses to achieve the intercom function.

1. There is no need to register the extension number of this phone. Open the web page ->Phone ->Function key
2. Select “Speed dial” in the corresponding key type, and fill in the opposite IP address in the value, such as 192.168.50.123
3. Click Save to make one click call through i86V

4.1.3 Video Call

The i86V supports video calls to FIP15G Plus via SIP server number or IP Direct Dialing.
Supported models are as follows

Device	Model	Video
Intercom	i86V-01	√
	i86V-02	√
IP Phone	FIP15G Plus	√

4.2 Answer a Call

When the i86V calls in, the automatic answering is canceled by default, and the device will hear the ring within the set time. If you want to answer, you need to press the answer key. After the answer timed out, the call ends.

4.3 Hang Up the Phone

When the device is in call, you can end the call by pressing the Answer or End key again.

4.4 Auto Answer

The automatic answering function can be enabled for the device. When the device has an incoming call, it will automatically answer the call. You can find all the auto answer numbers in “Phone – Preferences” and turn them on.

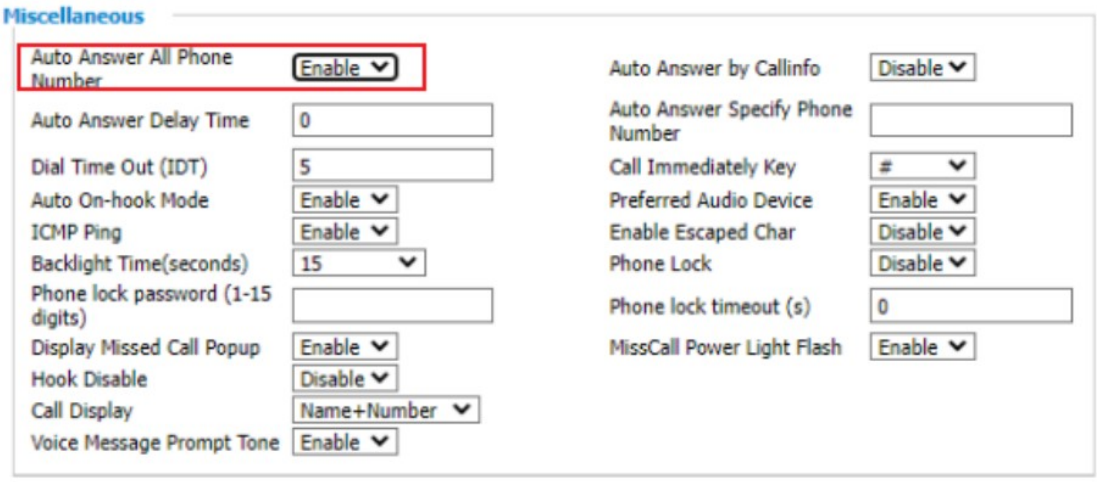


Figure 4-2

4.5 Function Keys Setting

Open the “Device – Function Key” to set the functions of the keys. One click tp trigger the corresponding functions. Currently, the settings supported include speed dial, multicast and URL request. You can check the web configuration page for more details.

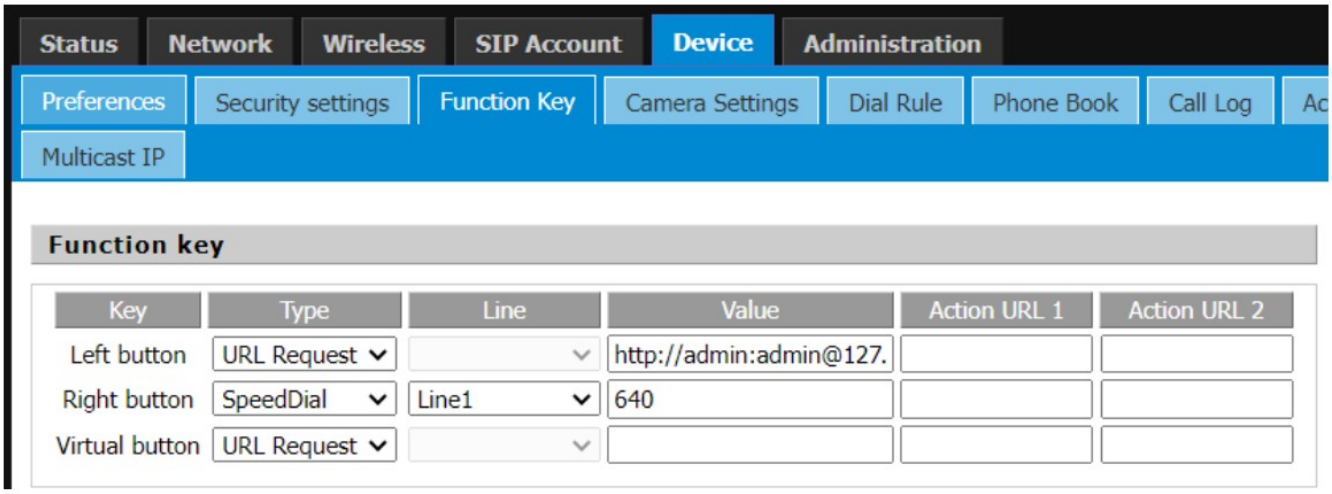


Figure 4-3

The following is an explanation of each function:

Speed Dialing	It call the corresponding extension number
Multicast	It can broadcast and talk to multiple devices
Action URL	It can trigger access to the entered url address

Key mapping instructions:

One keys version (i86V-01)	
Middle Key	Mapping device dialing/answering key
Virtual Key	As the spare key set for the input interface, there is no entity mapping
Double key version (i86V-02)	
Left Key	Mapping device the left dialing/answering key
Right Key	Mapping device the right dialing/answering key
Virtual Key	As the spare key set for the input interface, there is no entity mapping

Chapter 5 Advanced Functions

This chapter describes the advanced features of the i86V, including the following:

- Multicast Broadcast
- Input Interface Setting
- Onput Interface Setting
- Surveillance Camera Setting

For further information and support, please contact your system administrator.

5.1 Multicast Broadcast

Multicast function is to send the voice message to the set multicast address, and all those who listen to the multicast address can receive the voice message. The function is similar to broadcasting. Using the broadcast function, it is easy and convenient to send announcements to each member of the multicast.

Use Instructions:

1. The i86V device sets the multicast initiating address interface through the WEB Access the phone web page ->Phone ->Function Key, set a function key type as multicast, and the Value is Monitoring Address (Example 224.0.0.1:10001)

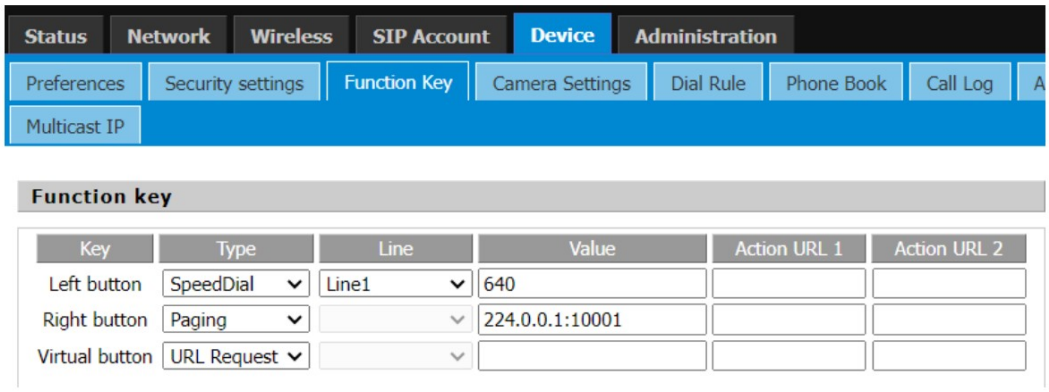


Figure 5-1

2. The broadcast device can listen to the multicast address and interface through Web settings.

3. Select Phone ->Enter Multicast IP ->Enter Monitoring Address (Example 224.0.0.1:10001)

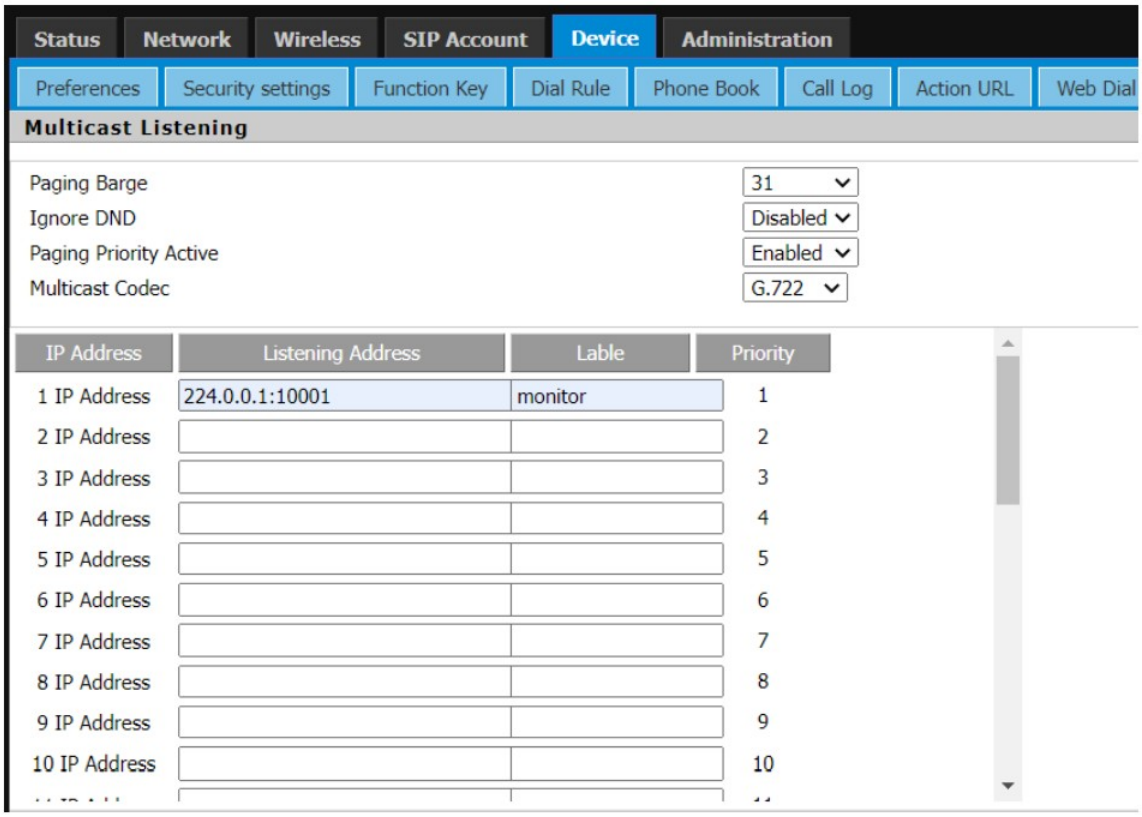


Figure 5-2

4. After the configuration is completed, the intercom/phone can initiate multicast by pressing the set multicast key.

   The device monitoring the address can receive the multicast content without answering

5.2 Input Port Setting

You can meet your personalized scene needs through input devices such as access switches, infrared probes, and vibration sensors.

Path: Phone-Security-Settings

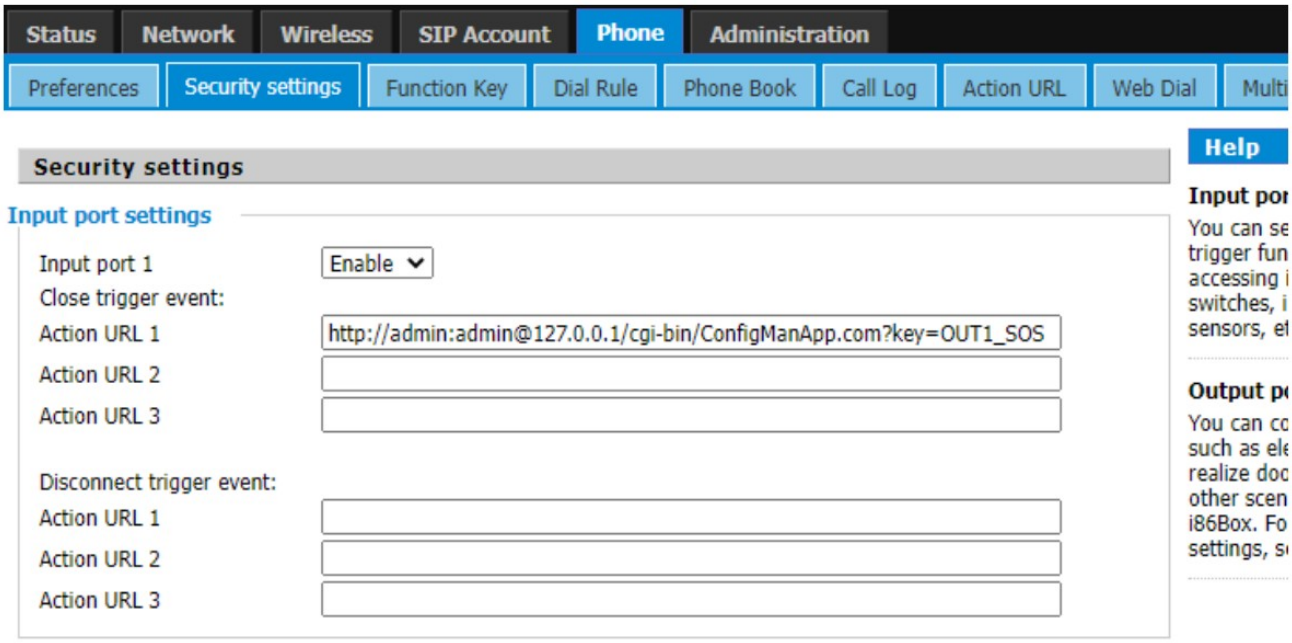


Figure 5-3

The following are the parameters of the input port:

Input Port Setting	
Input Port 1	Enable or disable the input port
Close Trigger Event	When the external device circuit of the i86V changes from the disconnected state to the closed state, a one-time URL is requested Instructions: Each URL can trigger a request at the same time. Filling in the same URL will trigger the request only once
Disconnect Trigger Event	When the external device circuit of the i86V changes from the closed state t o the disconnected state, a one-time URL will be requested Instructions: Ea ch URL can trigger a request at the same time. Filling in the same URL will trigger the request only once
Trigger Key Function URL	Left Key: **http://username:password@127.0.0.1/cgi-bin/ConfigManApp.com?key=L1** Right Key: **http://username:password@127.0.0.1/cgi-bin/ConfigManApp.com?key=L2** Virtual key: **http://username:password@127.0.0.1/cgi-bin/ConfigManApp.com?key=L3** (The user name and password are admin/admin by default)
Trigger Relay Action	**Http://username:password@127.0.0.1/cgi-bin/ConfigManApp.com?Key** (trigger command/reset command, see output port setting)
Third Party Platform URL	Support filling in third-party platform URL for signal reporting

5.3 Output Port Setting

You can access input devices such as electric locks and alarms to achieve scene requirements such as opening doors and alarming through the i86V.

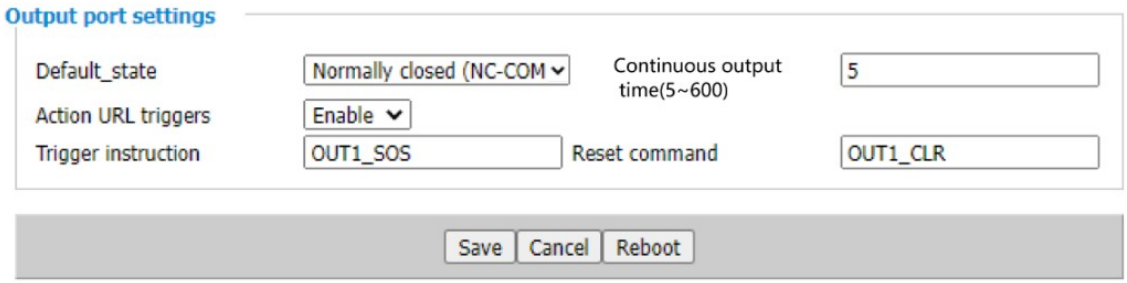


Figure 5-4

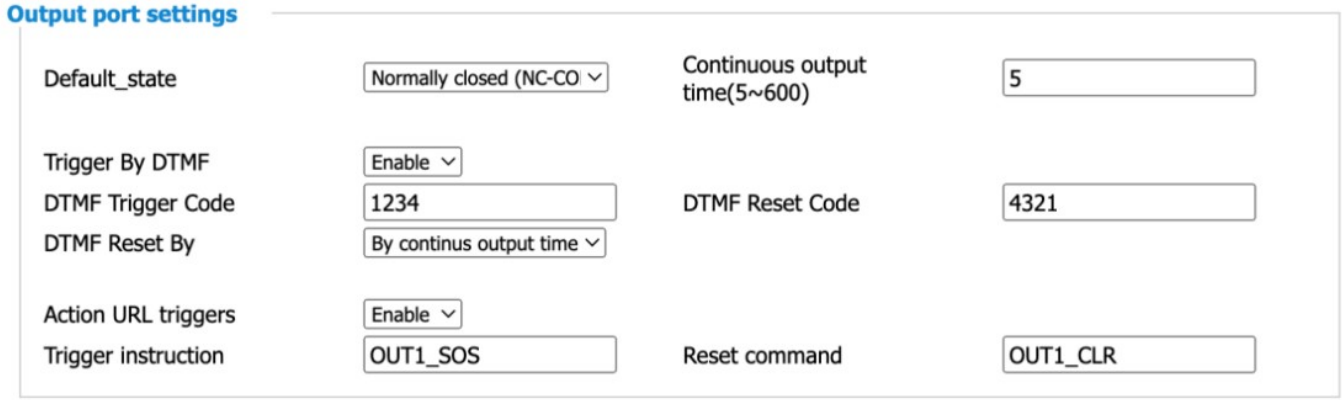
The following are the parameters of the output port:

Output Port Setting	
Standard Statu	The default state is normally closed (NC-COM connected), and users can customize and modify the default status Normally closed (NC-COM connected): When the trigger conditions are met, NC-COM is disconnected and NO-COM is connected Normally open (NO-COM connected): When the trigger conditions are met, NO-COM is disconnected and NC-COM is connected
Action URL Trigger	Enable or disable URI triggering. When enabled, the remote device or the local computer sends the request command. If it is correct, the corresponding action will be triggered
Trigger Action Definition	1. The default status of the relay is normally closed. When the i86V receives the trigger command, it becomes normally open. After a period of time, it returns to the default status 2. The default status of the relay is normally open. When the i86V receives the trigger command, it becomes normally closed. After a period of time, it returns to the default state
Reset Action Definition	When the duration of relay triggering action has not expired, the output port triggering action will be stopped immediately after receiving the reset command
Output Duration	Output port change duration, the default value is 5 seconds, which supports user-defined (5-600s)
Trigger Instruction	The default is OUT1_ SOS supports user-defined modification
Reset Command	The default is OUT1_ CLR, support user-defined modification
Output Trigger URL	Local trigger: **http://Username:password@127.0.0.1/cgi-bin/ConfigManApp.com?** Key=Trigger command/Reset command
User Name/Password	The default is admin/admin If you have modified your user name and password, please fill in your modified user name and password
IP Address	Enter the IP address you need to control

5.4 DTMF

DTMF (Dual-Tone Multi-Frequency) signals are used for digital dialing and control functions in telephone systems. By setting DTMF trigger codes on the i86, you can enable the output port of the device when a specific code, such as “1234,” is pressed during a call. This allows you to remotely control operations such as opening doors or triggering alarm lights using DTMF.

Tips: It is important to ensure that both devices have the same DTMF mode, and the extension type registered on the SIP server is also set to the same DTMF mode (usually defaulting to RFC2833).

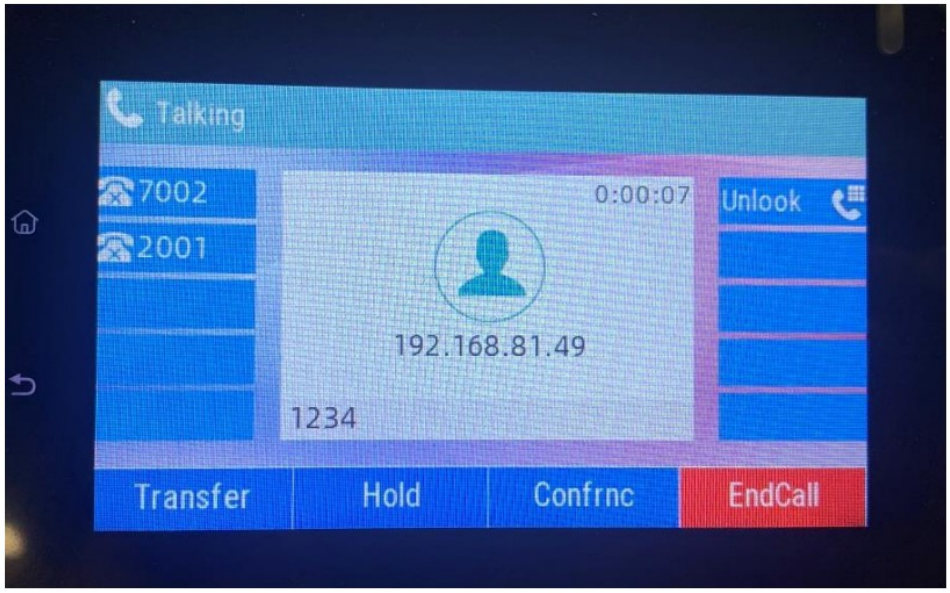


DTMF configuration

1. Log in to the management background of the device
2. Open the device->Security Settings->Output Port Settings
3. DTMF Trigger -> Select Enable, fill in the trigger code (default is 1234),
4. Select the reset method of the output port of the device according to the needs (according to the call time, according to the duration)
5. Click Save

Use DTMF

1. Presses the speed dial keyof i86V to call the indoor phone
2. Press the trigger code “1234” on the phone, and the intercom will play DTMF tone at the same time
3. Intercom enable output port to realize door opening and other operations



Tips: Here is an example of a FIP15G Plus call, pressing the trigger code.

5.5 Camera Settings

i86V integrates a 2 megapixel high-definition camera, which is set to automatically enable video during calls. It supports a maximum resolution of 1920*1080p for the video capture and display. Users can decode the device’s RTSP video stream URL to obtain the video image, thus achieving functions such as security surveillance and video calling.

Tips: Supports video calls with FIP15G Plus

Path: Device -> Camera Settings

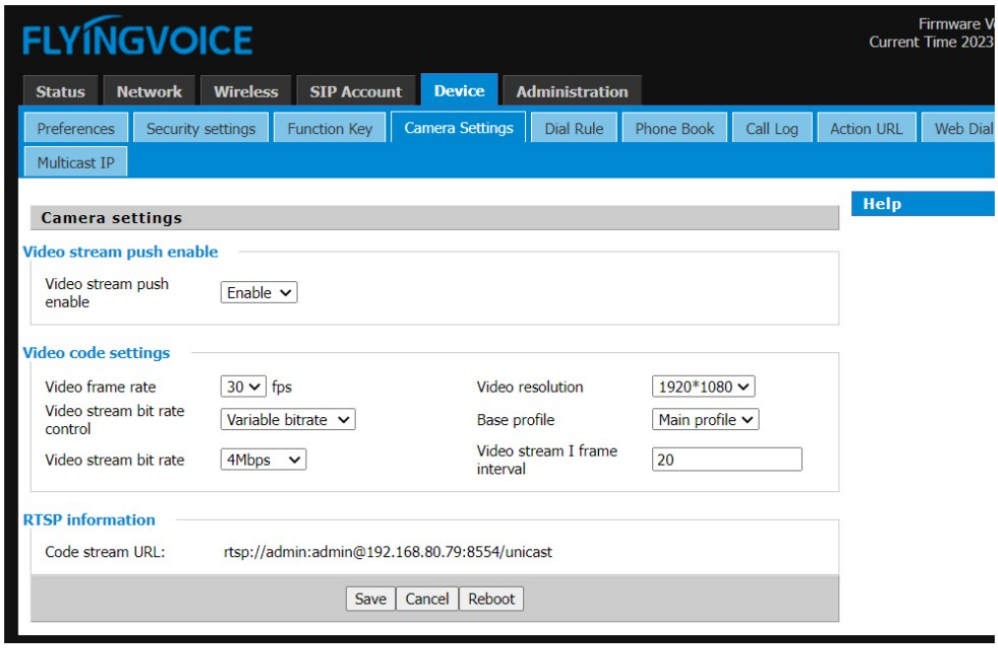


Figure 5-5

Video stream push enable : On, Off
Video frame Rate: Default 25. Optional selections include 5, 10, 15, 20, 24, 25, and 30.
Video resolution: 1920*1080 1280×720 704×576 352×288 176×144
Video stream bit rate control Constant bitrate, Variable bitrate\
Base profile: Base profile, Main profile
Video stream bit rate: Default 4Mbps; Maximum support 14Mbps.
Video stream I frame interval: The interval between two consecutive I-frames in a video stream is the duration or time gap between these frames.
Code stream URL: **rtsp://admin:admin@192.168.80.79:8554/unicast**
Tips: You can play the video footage using media players like VLC.

Chapter 6 Bulk Deployment

6.1 FDC

In order to manage and configure i86V intercom in large quantities more conveniently and quickly in the local LAN, FDC can provide read/modify device parameters for single or multiple devices.

1. The device is up and running and can access a LAN or switch via the WAN port
2. Repeat the above steps to connect more devices
3. Connect to a computer running FDC software

6.1.1 Bulk Upgrade

Use Instructions:

a. Run the FDC software, in the upper left corner ->Device ->Scan, wait for the scanning to complete, and then you can see the devices connected under the current network

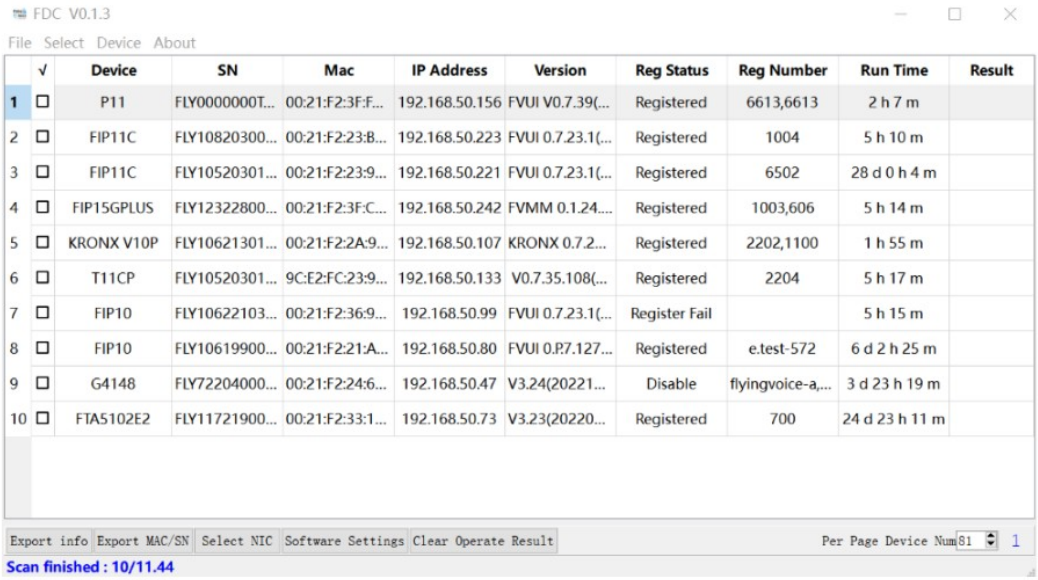
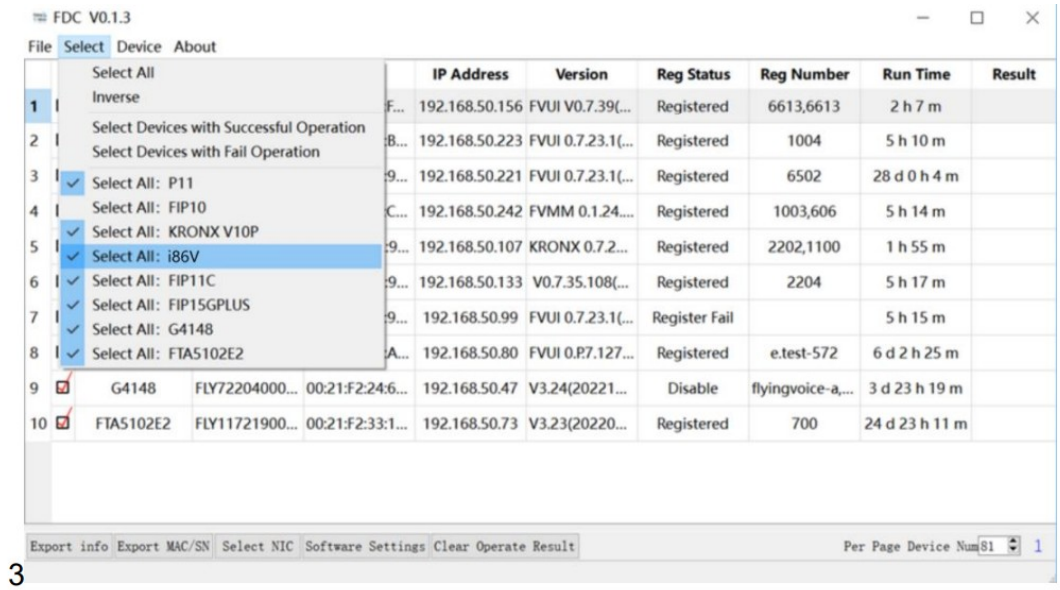


Figure 6-1 Scanning

b. Select in the upper left corner ->Select All: i86V



3

Figure 6-2 Select device

c. Select Device ->Firmware Device – Upgrade Firmware in the upper left corner

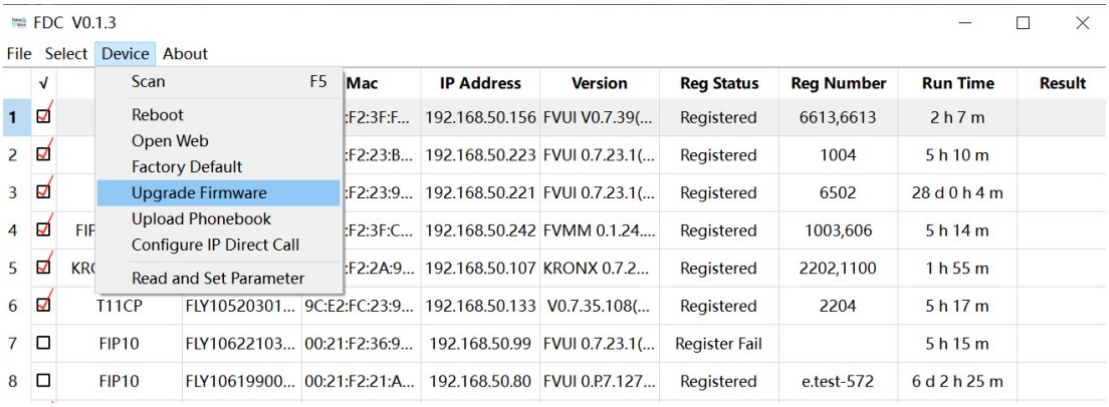


Figure 6-3 Select device

d. Select the version upgrade file in the window

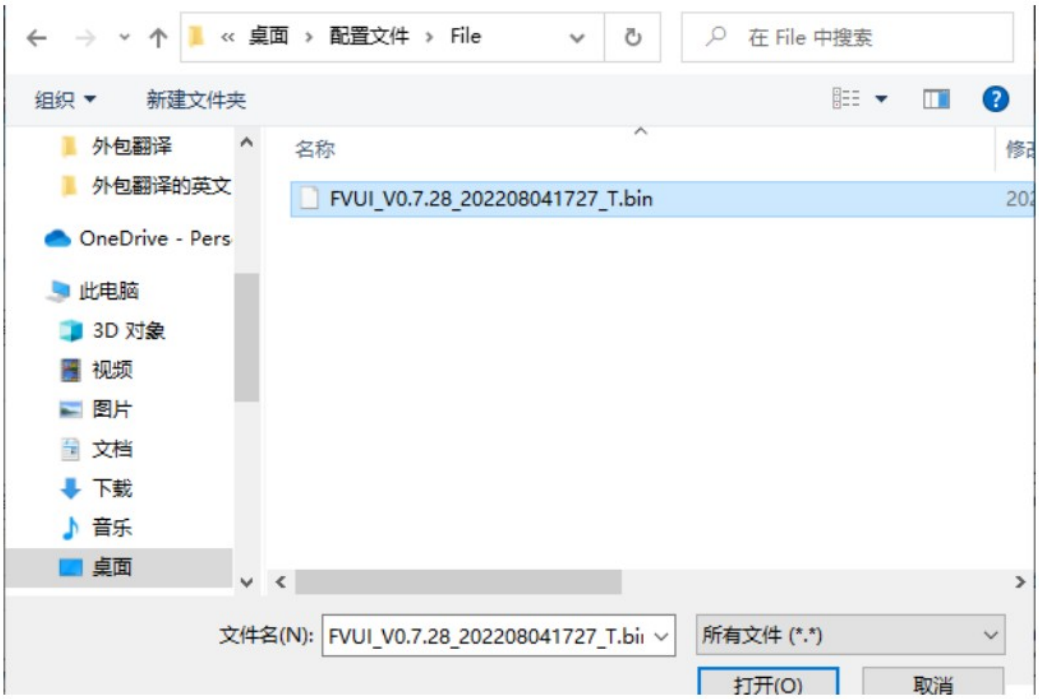
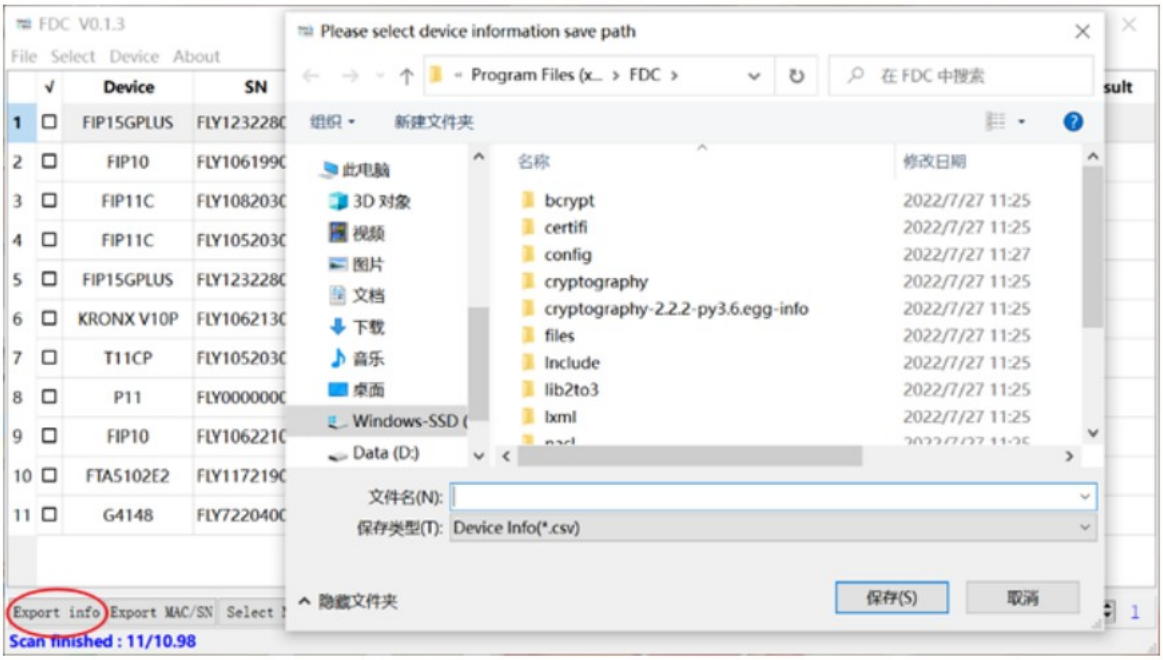


Figure 6-4 Select file

e. Wait for the firmware upgrade to be completed

6.1.2 Export Profile

Device ->Export information ->Save format. csv ->Select the save path ->After export, it can be opened in Excel



Chapter 7 Web Page Configuration

Topic

- Device Status
- Restore Factory Settings
- Firmware Updates

7.1 Device Status

The users can view the current device status of the device on the web page. The status ->Basic includes the following:

- Product Information: (Product Name, MAC address, Hardware version, Loader Version, Firmware Version, Serial Number)
- Line Status: (Line status, primary server, backup server)
- Network Status: (WAN port status, VPN status, wireless status, WiFi switch, Network Mode, channel bandwidth)
- System Status: (Current time, Elapsed time)

7.2 Restore Factory Settings

The device will empty all the configurations on the device, such as the initial account, phone settings, etc., and return to the factory default status.

1. Open the device web page ->Administration ->Go down to find the factory settings

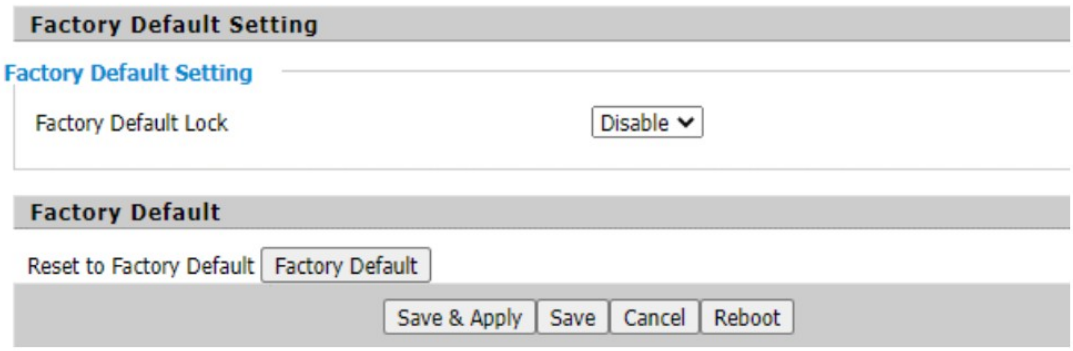


Figure 7-1 Restore factory settings

2. Click Factory Defalut ->OK -Wait for recovery to be completed

Tips: If you cannot enter the device web, you can press the Reset button and hold it while the device is powered on until the device emits a beep tone, then release the Reset button and the device starts to restore factory settings. When the device emits a welcome tone, the device reset to factory settings is completed.

7.3 Firmware Updates

The i86V device can be upgraded in the web page.

1. Go to the website-> Administration-> Firmware Upgrade Select the file and click Upgrade. You can choose to Ban/Enable Delete the current configuration.
2. Click and Save

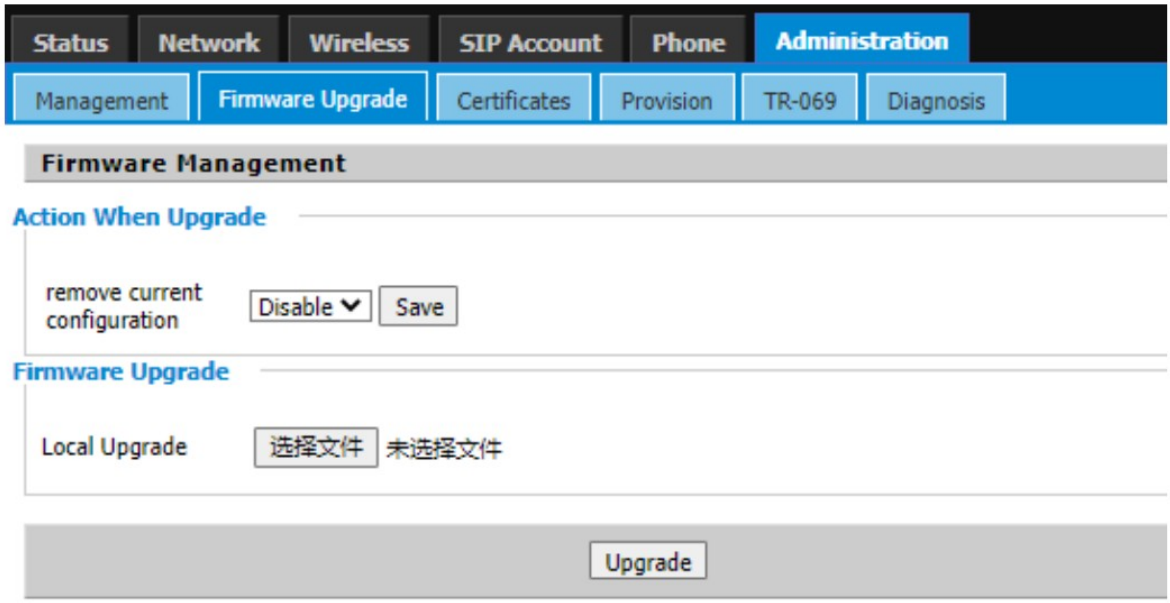
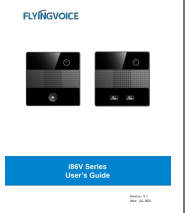


Figure 7-2

FLYINGVOICE
Flyingvoice Network Technology Co., Ltd.

Documents / Resources

	FLYINGVOICE i86V Series Advanced SIP Video and Audio Intercom [pdf] User Guide i86V Series Advanced SIP Video and Audio Intercom, i86V Series, Advanced SIP Video and A udio Intercom, SIP Video and Audio Intercom, Video and Audio Intercom, Audio Intercom

References

- FCMS Device Management System
- pool.ntp.org: the internet cluster of ntp servers
- FCMS Device Management System
- FLYINGVOICE, A VoIP CPE One-Stop Manufacturer
- Support
- User Manual