



A513W User Manual

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3. Safety Instruction

Please read the safety precautions carefully before installing and using the device. This is key to ensuring the safe and reliable operation of the device.

- Before using the product, please confirm that the ambient temperature and humidity meet the product's operating requirements. (If this product is moved from an air-conditioned room to a room at ambient temperature, condensation may form on the product's surface or internal components; allow the product to dry naturally before turning on the power.)
- Before using the external power supply included in the package, check the household power voltage. Incorrect voltage may cause a fire and result in damage.
- Do not damage the power cord. If the power cord or plug is damaged, do not use the product, as this may cause a fire or electric shock.
- Non-technical personnel must not disassemble or repair the product on their own. Improper repair may result in accidents such as electric shock or fire, and will void the product's warranty.
- Do not insert metal objects such as pins or wire into the ventilation openings or crevices. Doing so may cause electric shock or other injuries due to current flowing through the metal objects. If foreign objects or similar metal items fall into the product, stop using it immediately.
- Do not install the A513W in environments prone to condensation, prolonged high temperatures, oil contamination, dust, chemical corrosion, or direct sunlight.
- Install the device at a height that allows for easy viewing and a clear line of sight, ensuring it is stable and securely mounted. When installing indoors, avoid direct strong light on the lens and keep the device away from strong light sources and heat sources to prevent interference with image quality and audio pickup.
- Please avoid subjecting the device to severe vibrations, collisions, or impacts to prevent damage to the internal precision components and the casing.
- Do not discard the plastic bag used for packaging or leave it where small children can reach it, to prevent them from pulling it over their heads, which could block their nose and mouth and lead to suffocation.
- Please use this product correctly in accordance with the instructions in this manual; prolonged improper operation may result in product damage and safety hazards.

4. Overview

The A513W is a uniquely designed outdoor video speaker that integrates broadcasting, surveillance, and intercom functions into a single, three-in-one smart application. Equipped with a 4-megapixel wide-angle camera, built-in infrared and white light illuminators, and HDR technology, it delivers outstanding imaging performance day and night. It features a 10W high-power speaker combined with a turbo speaker acoustic structure and advanced dual-microphone noise-cancellation algorithms, ensuring clear and powerful broadcasting and communication even in noisy environments. It also supports Wi-Fi connectivity for more flexible and convenient deployment. The unit meets the IP66 dust and water resistance rating, remaining stable and reliable in harsh environments while demonstrating excellent durability.

This manual provides a detailed overview of the A513W's features, specifications, and operating procedures.

5. Install Guide

5.1 Use POE or External Power Adapter

The A513W supports two power supply methods: an external power adapter and Power over Ethernet (PoE) via a switch.

The POE power supply method saves space and eliminates the cost of additional power outlets. The A513W can be connected to a POE switch via a single network cable to provide both power and data transmission. By connecting to a POE switch linked to a UPS system, the device can continue to operate even if the power is cut off, just like a traditional PSTN telephone powered by a telephone line.

Users without POE-capable equipment can use a traditional power adapter. If the A513W is connected to both a POE switch and a power adapter simultaneously, POE power is used as the primary source. If POE power fails, the device will switch to power from the adapter.

To ensure proper operation of the device, please use the specified power adapter and a POE switch that meets the device's standards.

5.2 Appendix

5.2.1 Common Command Modes

Table 1 - Common Command Modes

Action	Description
Standby report IP	In standby mode, press and hold the reset button for 3 seconds until a beep sounds. Within 5 seconds, press it again, and the device will announce the IP address
Switch Network Mode	Press and hold the reset button for 3 seconds to enter command mode. A beep will sound. Within 5 seconds, quickly press the button 3 times to switch network modes. If no IP address is currently assigned, the device will switch to the default static IP. If the device is using the default static IP (192.168.1.128), it will switch to DHCP mode. If an IP address is obtained via DHCP, the device will not switch modes but will immediately announce the IP address.

	Announces IP after successful switch
Restore Factory Settings	Press and hold the reset button for 10 seconds (reset via the web interface or POST method is also supported)

5.2.2 Function Key LED Status

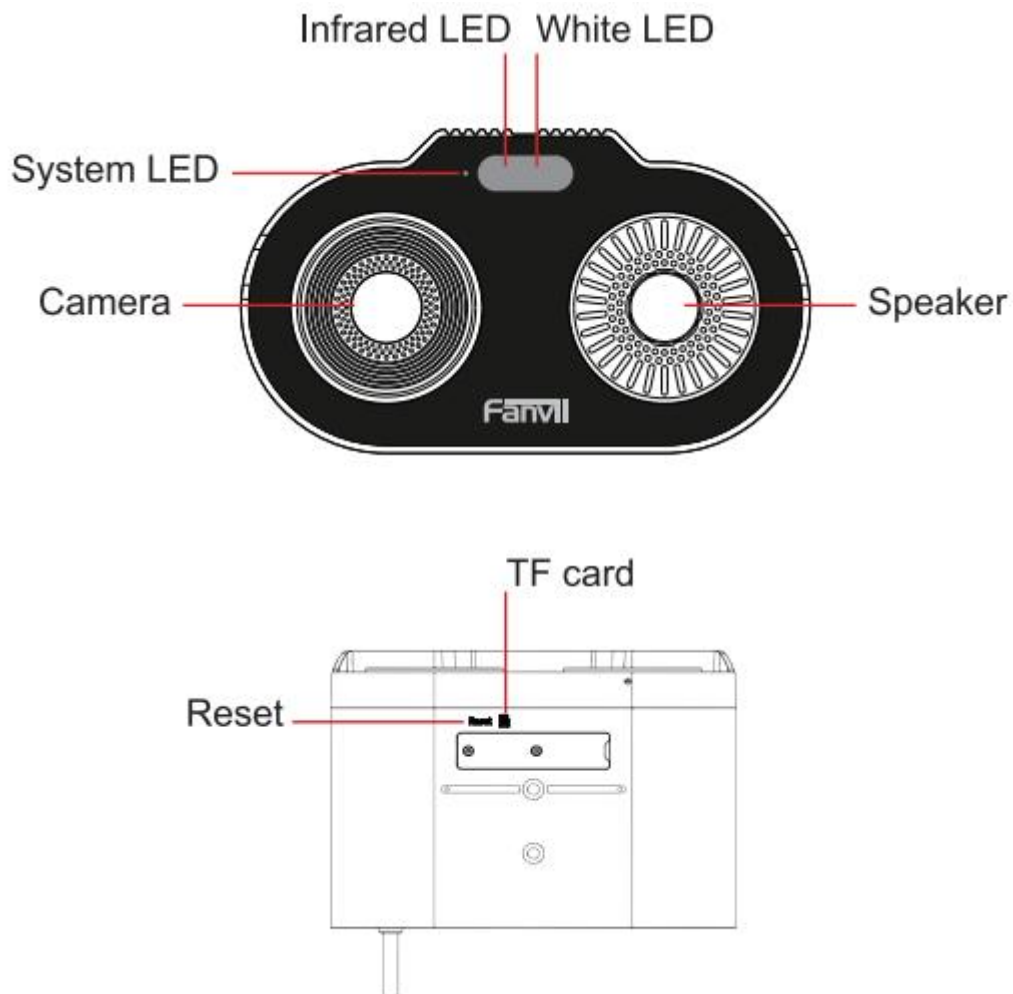
The A513W has a dual-color (red and green) indicator light; refer to Table 2 for status details:

Table 2 - Function Key LED Status

Status Indication	LED
Standby (not registered, network normal)	Solid green
Standby Registration successful	Solid green
Call/Ringing/Incoming Call	Green Flash
Registration Failed	Red Slow Flash
Network error	Red slow flash
POST	Entering POST Orange steady light
Startup phase	Startup: Red steady light; during POST loading: red flashing, then steady light; upon entering standby: flashes once and plays a tone; entering standby depends on settings

6. User Guide

6.1 Panel Description



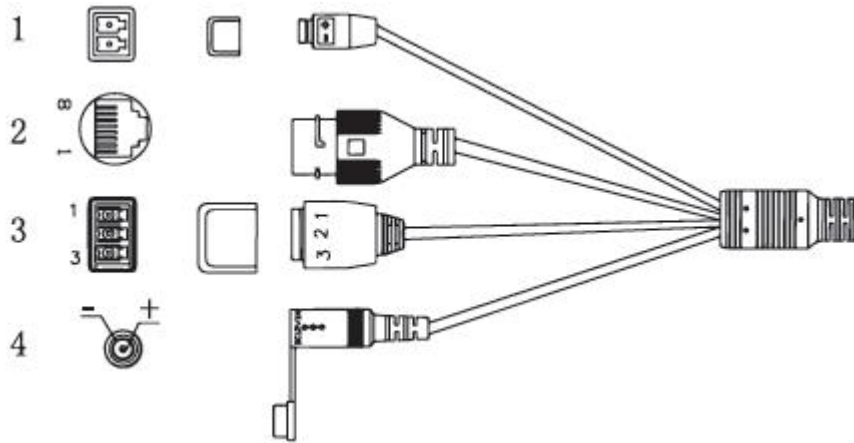
Picture 1 - Panel

Table 3 - Panel Introduction

Name	Description
Infrared LED	Infrared fill light for night vision
White Fill Light	Used to provide supplementary lighting
Status Indicator	Used to display the device's operating status
Camera	Video signal capture and transmission
Speaker	Playback audio

TF card slot	Supports SD cards up to 256GB Note: You must remove the back cover before inserting the card
Reset button	Restore factory settings

6.2 Port Description



Picture 2 - Ports

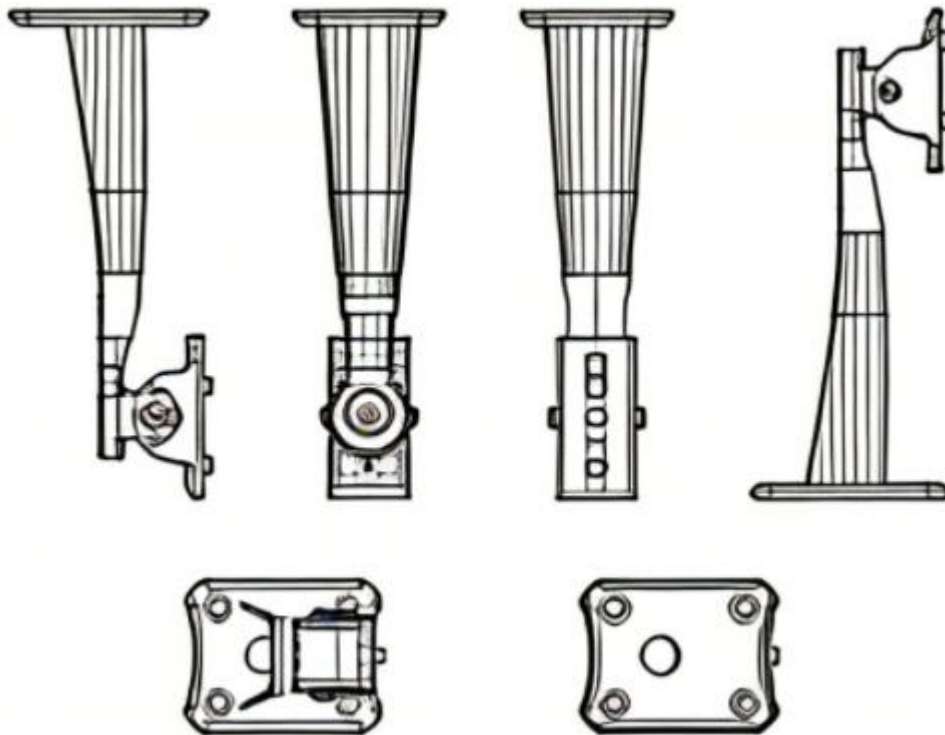
Table 4 - Port Descriptions

Item	Description	Terminal Description (Using the above figure as an example)
①	Short-circuit input detection interface: Used to connect input devices such as switches, infrared sensors, door contacts, and vibration sensors	GND, IN
②	Ethernet Port: Standard RJ45 port, 10/100 Mbps auto-negotiation; Cat 5 or Cat 5e cable is recommended	Supports PoE 802.3 AT Class 4
③	Short-circuit output control interface: Used to control electric locks, alarms, etc.	1 (NO): Open in idle state (Normally Open) 2 (COM): Relay contact (common terminal) 3 (NC): Closed in idle state (normally closed)
④	Power Interface: 12V–24V/2A input	DC +, DC -

6.3 Installation Instructions

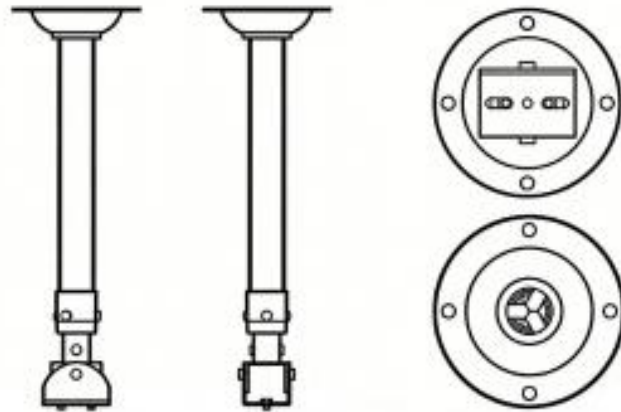
The A513W offers both wall-mounted and ceiling-mounted installation options. Please purchase the corresponding accessories separately before installation.

Wall-Mounted (Optional):



Picture 3 - Wall Mount Bracket (Optional)

Ceiling-mounted (optional):



Picture 4 - Ceiling Mount Bracket (Optional)

1. Wall-Mounted Installation

1) Preparing to install the bracket

Align the bracket with the screw holes on the speaker base and secure it using the provided screws. Tighten by hand. Loosen the rotation and tilt knobs on the bracket to allow for free movement during subsequent adjustments.

2) Marking Drill Holes

Peel off the mounting template sticker and place it on the desired location (wall or ceiling), then clearly mark the drill holes and cable exit holes with a pencil.

3) Drilling and Installing Anchors

Use a 5 mm drill bit to drill holes to the required depth at the marked locations. Insert the provided wall anchors into the holes, ensuring they are flush with the surface.

4) Install the bracket

Align the holes in the bracket base with the wall plugs, then secure the bracket using the provided screws. Tighten the screws to ensure a secure installation.

5) Adjust the device angle

Route the device's cables (network/power) through the bracket and cable management channel. Connect the cables to the device. Hold the camera and adjust it to the desired viewing angle by rotating and tilting it. While maintaining the ideal angle, tighten the rotation and tilt knobs to securely lock the position.

6) Final Check and Cable Management

Connect the power and network cables. Use cable ties to neatly secure any loose cables to the bracket arms or nearby mounting points to complete the installation.

2. Ceiling-Mounted Installation

1) Preparing the Mount

Align the mount with the camera base, position it over the screw holes, and secure it using the provided screws. Tighten them gently. Loosen the pan and tilt knobs on the mount to allow for free movement during future adjustments.

2) Mark Drill Holes

Place the ceiling mount at the designated installation location. Clearly mark the drill holes and cable exit holes with a pencil.

3) Drilling

Use an 8-millimeter drill bit to drill holes to the required depth at the marked locations.

4) Install the bracket

Align the holes at the bottom of the bracket with the holes in the wall, and secure the bracket using the provided screws. Tighten firmly to ensure a secure fit.

5) Adjust the Camera Angle

Route the camera cables (network/power) through the bracket and the cable management channel. Connect the cables to the camera. Hold the camera and adjust it to the desired viewing angle by rotating and tilting it. While maintaining the ideal angle, firmly tighten the rotation and tilt knobs to lock the position.

6) Final Check and Cable Management

Connect the power and network cables. Use cable ties to neatly secure any loose cables to the bracket arms or nearby mounting points to complete the installation.

6.4 Device IP Address

Method one:

1. Go to the official website of Fanvil [Support] >> [Download Center] >>[Tools]>> [IP Scanner] module,click and download the Device Manager,
2. Open the IP scan tool, the tool supports LAN scan and cross network segment scan.
3. For LAN scanning: Click the desktop icon, run the Device Manager tool
4. Cross-segment scan: Fill in the cross-segment setting in the upper right corner of the page in the format of: IP address/mask. That is: IP address/N.

MAC	IP地址	Select	版本号	版本状态	描述
0c:38:3e:5c:ce:15	172.16.45.159	W710D	1.20.4		--
0c:38:3e:2f:7a:5c	172.16.45.211	A320	2.6.12.212.14		--
00:d8:4a:0a:f9:b3	172.16.45.130	Y501W-Y	2.12.58.23		Y501W-Y
0c:38:3e:63:fe:c6	172.16.45.241	V62G	2.12.24.2		--
0c:38:3e:82:1c:0c	172.16.45.144	A330i	2.20.6		--
0c:38:3e:82:3c:7c	172.16.45.131	A710	0.0.20		--
0c:38:3e:81:c9:ea	172.16.45.238	i16SV	2.12.52.15		i16SV
0c:38:3e:75:04:ad	172.16.45.161	W710H	T2.20.12		--
82:84:1a:9a:96:71	172.16.45.162	A330	1.0.0.28		--
0c:38:3e:8d:36:08	172.16.45.164	A513W	2.20.0.5.2		A513W

Picture 5 - Device Manager

Method two:

After the device boots up (about 40s), in standby mode, press and hold the reset button (the key in the [6.1 panel Overview](#)) for 3s, release the key immediately after the speaker beeps, and then press the reset button quickly within 5s (the same button as the above long press), and the device starts to broadcast IP.

Method three:

After the device boots up (about 40s), in standby mode, press and hold the reset button (the key in [6.1 panel Overview](#)) for 3 seconds, release the button immediately after the speaker beeps, and then press the reset button three times quickly within 5s (the same key as the above long press) to complete the operation. After successfully switching to dynamic IP, the system automatically announces the IP address by voice.

Table 5 - Configuration Instructions

Default Configuration			
DHCP Mode	Default enable	Static IP Address	192.168.1.128
Broadcast IP address	Long press the reset button for 3 seconds, press the reset button one times within 5 seconds.	Web Port	80

6.5 Web Configuration

When the device and your computer are successfully connected to the network, enter the IP address of the device on the browser as `http://xxx.xxx.xxx.xxx/` and you can see the login interface of the web page management.

A screenshot of a web login interface. At the top, the word "Welcome" is centered. Below it are two input fields: the first is labeled "Username" with a user icon, and the second is labeled "Password" with a lock icon. Under the password field is a language dropdown menu currently set to "English" and a "sync" checkbox which is unchecked. At the bottom is a large red button labeled "Login".

Picture 6 - Web Login

The username and password should be correct to log in to the web page. **The default username and password are both "admin".** For specific details on operating the web interface, please refer to [9: Web Configurations](#).

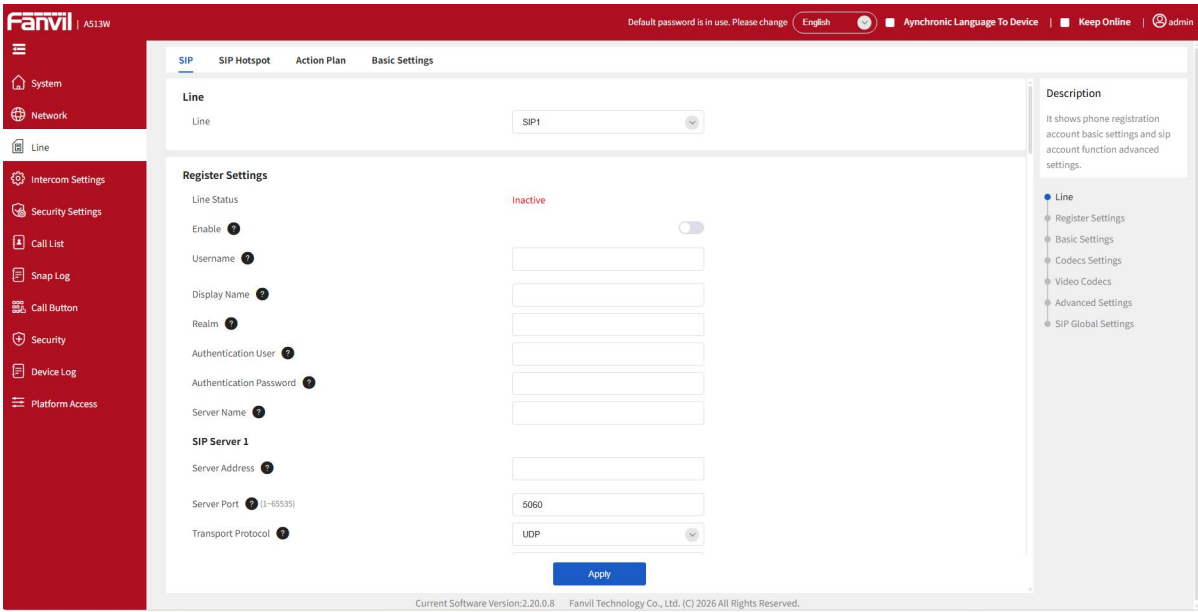
6.6 SIP Configurations

At least one SIP line should be configured properly to enable the telephony service. The line configuration is like a virtualized SIM card. Just like a SIM card on a mobile phone, it stores the service provider and the account information used for registration and authentication. When the device is applied with the configuration, it will register the device to the service provider with the server's address and user's authentication as stored in the configurations.

The SIP line configuration should be set via the WEB configuration page by entering the correct

information such as phone number, authentication username/password, SIP server address, server port, etc. which are provided by the SIP server administrator.

- **WEB Interface :** After logging into the phone page, enter **[Line] >> [SIP]** and select **SIP1/SIP2** for configuration, click apply to complete registration after configuration, as shown below:



Picture 7 - SIP Line Configuration

6.7 Volume Settings

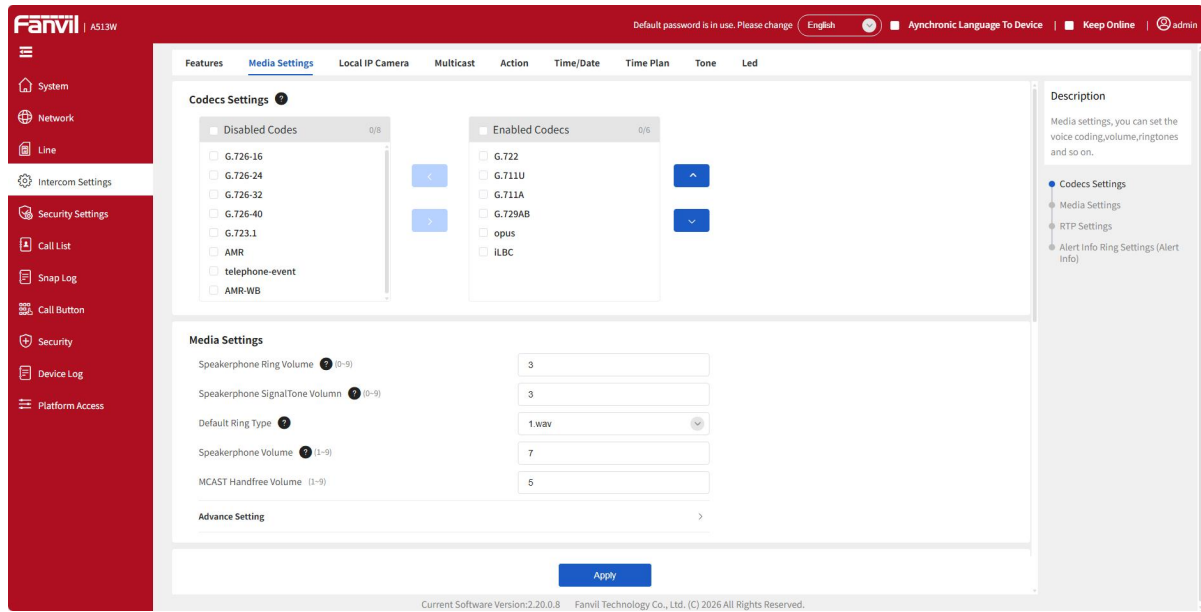
To set the volume:

[Intercom Settings] >> [Media Settings] >> [Media Settings], as shown below. Click **[Apply]** to apply the settings.

Table 6 - Media Settings

Configuration Item	Description
Speakerphone Ring Volume	Adjusts the speaker output volume for ringtones when the device is in handsfree mode.
Speakerphone SignalTone Volume	Adjusts the speaker output volume for prompt tones (e.g., ringback tone, busy tone) in handsfree mode.
Speakerphone Volume	Adjusts the loudspeaker output volume for calls or intercom in handsfree mode.
HandFree Mic Gain	Adjusts the microphone input level in handsfree

	mode.
MCAST Handfree Volume	Adjusts the loudspeaker output volume for multicast audio.



Picture 8 - Volume Settings

7. Basic Functions

7.1 Making Calls

Set the Call button as a memory key with the subtype "Speed Dial." After entering the number, pressing the Call button will immediately dial the preset number. The settings are as follows:

Picture 9 - Call Button Settings

For detailed configuration instructions, see [9.30 Call Button](#)

7.2 Answering Calls

After setting up the automatic answer and setting up the automatic answer time, it will hear the ringing bell within the set time and automatically answer the call after timeout. Cancel automatic answering. When a call comes in, you will hear the ringing bell and will not answer the phone over time.

7.3 End of the Call

During a call, the default function of the speed dial key is "End Call"; you can press the speed dial key to hang up. If you need to customize the speed dial key function, please refer to [9.30 Call Button](#).

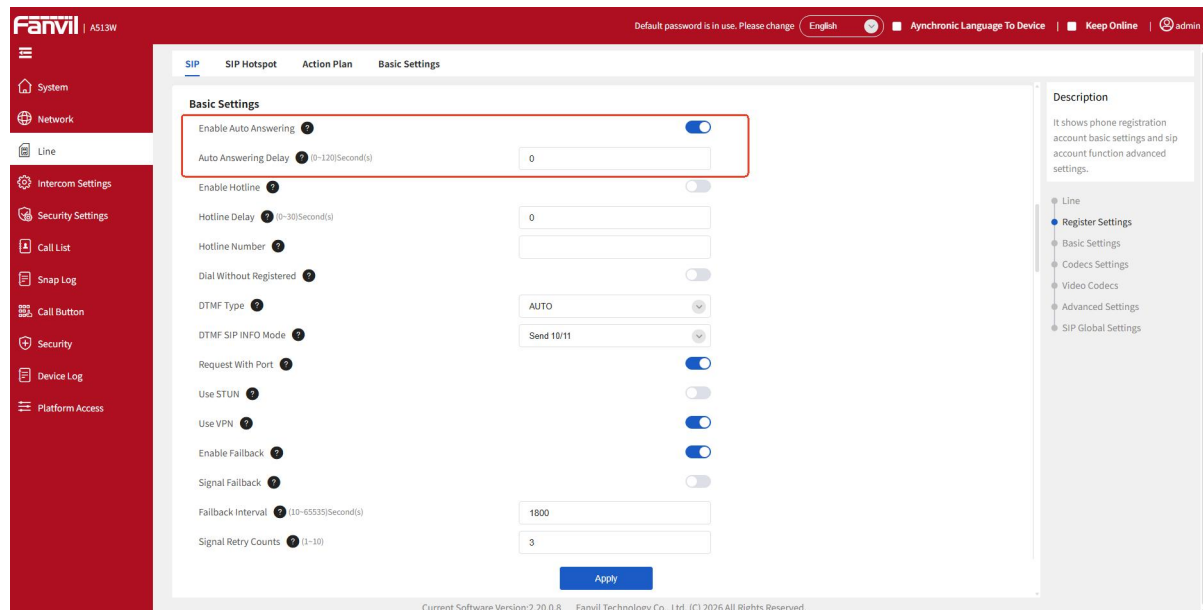
7.4 Auto Answer

The users can disable the auto-answer feature (enabled by default) on the device's web

interface. Once disabled, you will hear the ringtone and the call will not be automatically answered after the timeout.

- **Enabling Auto-Answer for a Line:**

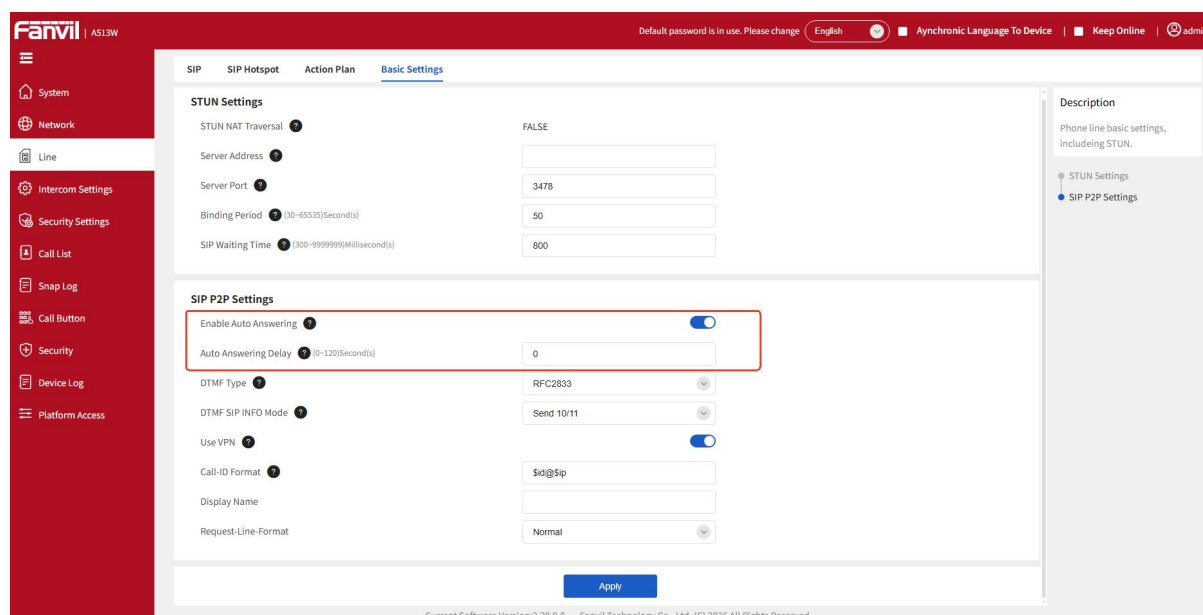
Log in to the device web interface, go to [Line] >> [SIP] >> [Basic Settings], enable Auto-Answer, set the mode and auto-answer time, then click Submit.



Picture 10 - Web Line Enable Auto Answer

- **Enabling Auto-Answer for IP Calls:**

Log in to the device's web interface, go to [Line] >> [Basic Settings] >> [SIP P2P Settings], enable Auto-Answer, set the mode and auto-answer time, then click Submit.



Picture 11 - Enable Auto Answer For IP Calls

- Auto-Answer Time (0–120)

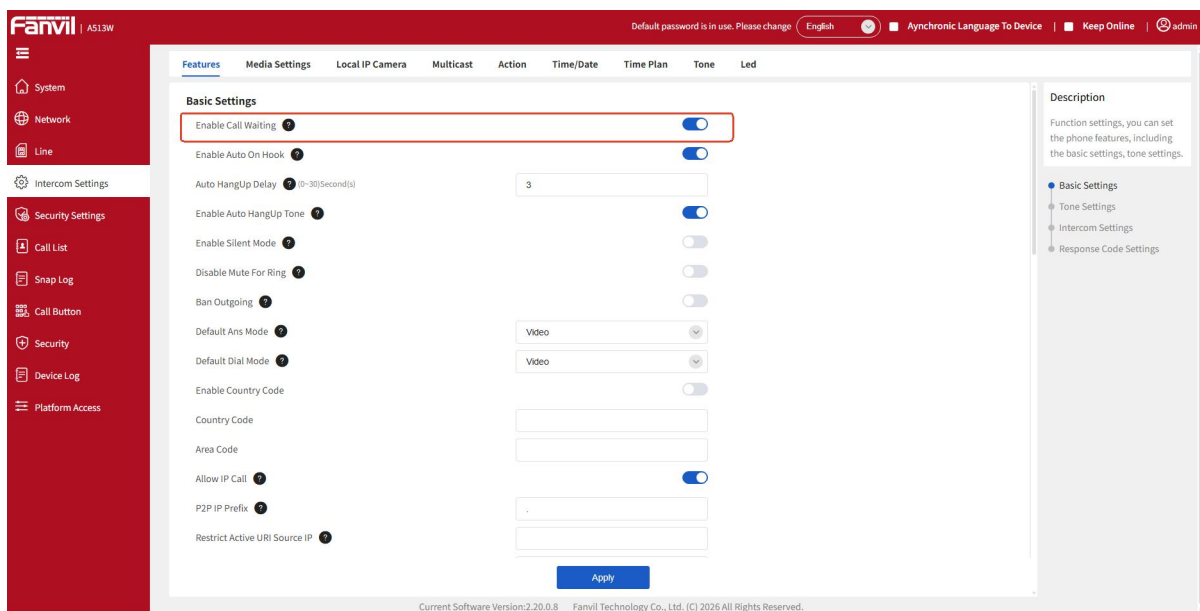
- Can be set within the range of 0–120 seconds; calls will be automatically answered after the specified timeout period.

7.5 Call Waiting

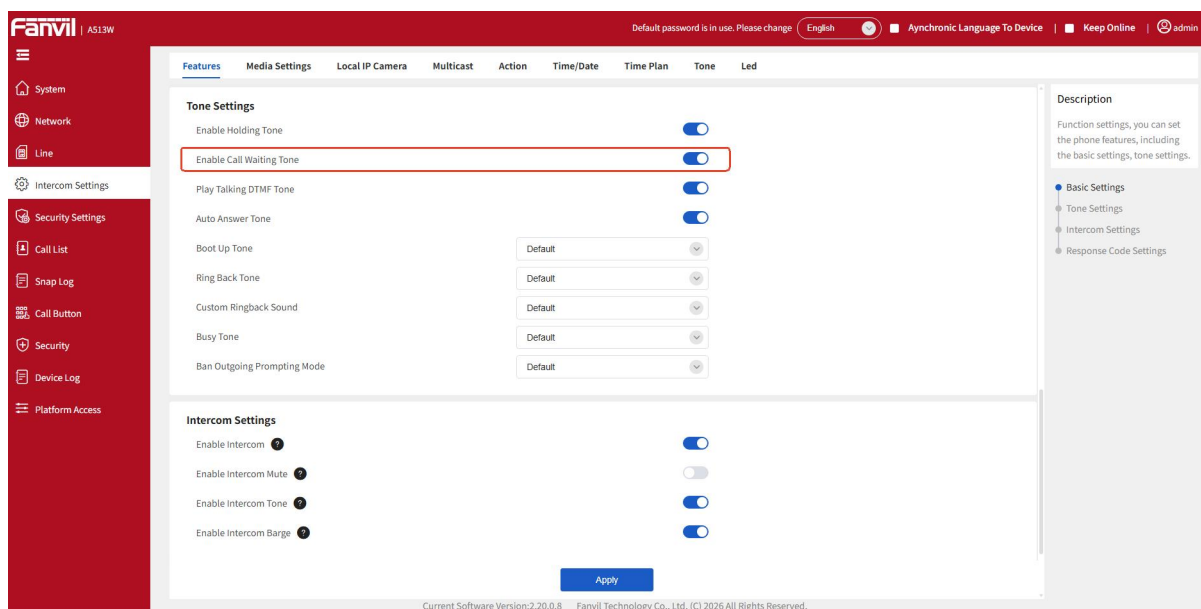
- Enable Call Waiting: You can receive new incoming calls while on a call.
- Disable Call Waiting: New incoming calls will be automatically rejected, and a busy tone will be played.
- Enable Call Waiting Alert Tone: When you receive a new call while on a call, the device will emit a "beep-beep" alert tone.

Users can enable or disable the Call Waiting feature via the web interface.

- Web Interface: Go to **[Intercom Settings] >> [Features]** to enable/disable Call Waiting and enable/disable the Call Waiting tone.



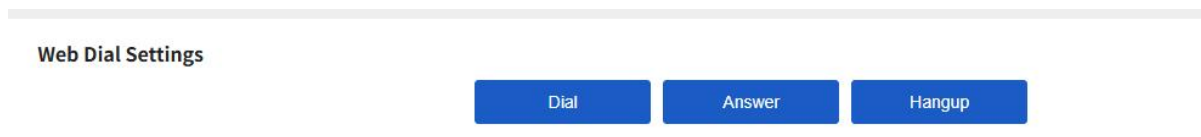
Picture 12 - Call Waiting



Picture 13 - Call Waiting tone

7.6 Web Dial Settings

Web interface: enter **[System]** >> **[Tools]**>> **[Web Dial Settings]**, Use the web page to perform call, answer, and hang-up operations.

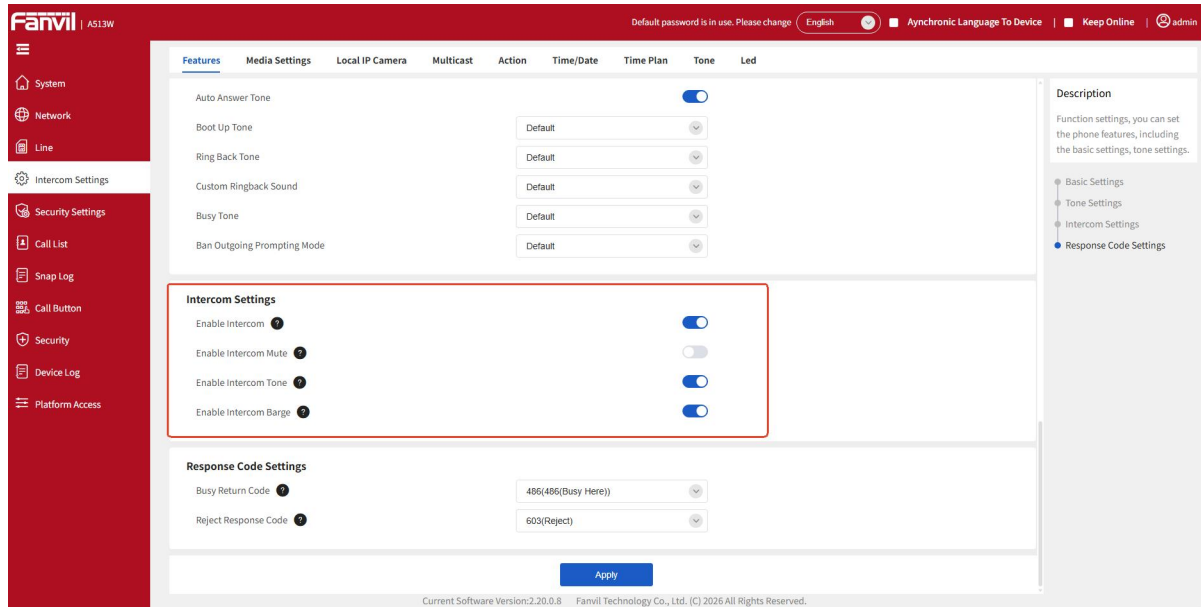


Picture 14 - Web Dial Setting

8. Advanced Features

8.1 Intercom

When an intercom call is received, the device can automatically answer it.



Picture 15 - Web Intercom

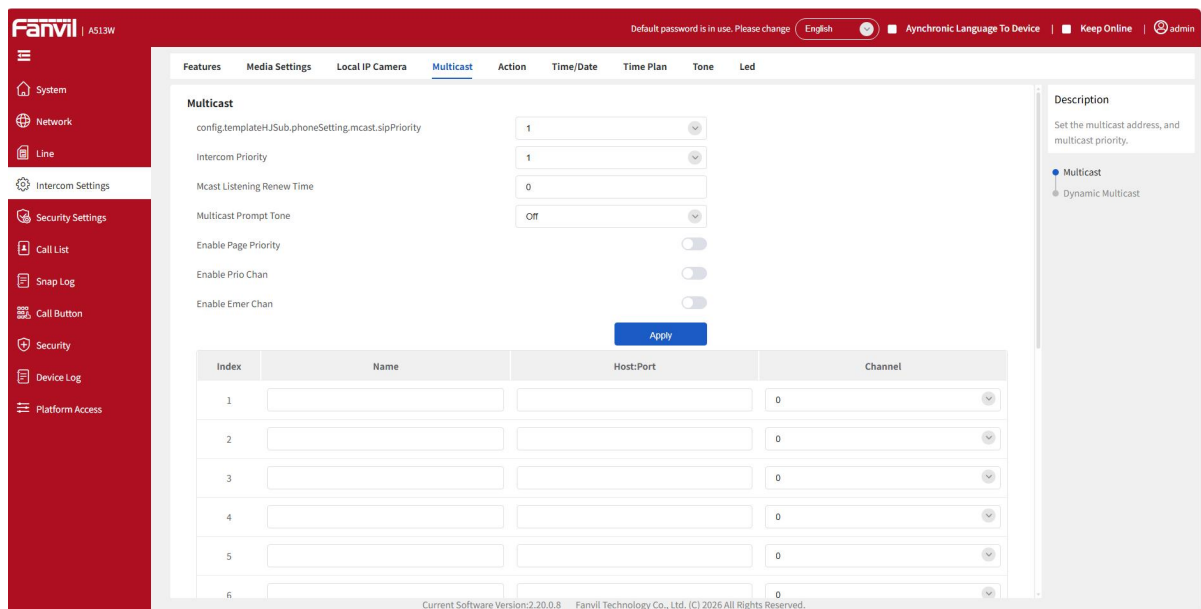
Table 7 - Intercom

Parameters	Description
Enable Intercom	When the intercom system is enabled, the device will accept the SIP header call-info of the Call request Command automatic call
Enable Intercom Barge	If the option is enabled, device will answer the intercom call automatically while it is in a normal call, and it will reject new intercom call if there is already one intercom call
Enable Intercom Mute	Enable mute during intercom mode
Enable Intercom Tone	If the incoming call is intercom call, the device plays the intercom tone.

8.2 Multicast

The multicast feature allows you to easily and conveniently send announcements to every member of a multicast group. By configuring the multicast button on the device, you can send a multicast RTP stream to a preconfigured multicast address. By configuring the device to listen

to a multicast address, it will monitor and play the RTP stream sent to that address.



Picture 16 - Multicast Settings

Table 8 - Multicast Parameters

Parameter	Description
SIP Priority, Intercom Priority	Defines the priority in the current call; 1 is the highest priority, and 10 is the lowest.
Mcast Listening Renew Time	Set the wait time for resuming multicast reception
Multicast Alert Tone	Enable Multicast Alert Tone
Enable Page Priority	Regardless of which of the two multicast calls comes in first, the device will prioritize the call with the higher priority.
Enable channel priority	When enabled, calls can only be connected on the same port and channel. Channel 24 is the priority channel, taking precedence over channels 1–23; a channel value of 0 indicates that channels are not used
Enable emergency priority	When enabled, Channel 25 has the highest priority
Name	Server name for listening to multicast
Host:Port	Server address and port number for listening to multicast
Channel	0–25 (Channel 24 is the priority channel; Channel 25 is the emergency channel)

Multicast:

- Go to web page of **[Call Button]** >> **[Call Button Settings]**, select the type to MCAST Paging, set the multicast address, and select the codec.
- Click Apply.

- Set up the name, host and port of the receiving multicast on the web page of [Intercom Settings] >> [Multicast].
- Press the DSSKey of Multicast Key which you set.
- Receive end will receive multicast call and play multicast automatically.

MCAST Dynamic:

Description: send multicast configuration information through SIP notify signaling. After receiving the message, the device configures it to the system for multicast monitoring or cancels multicast monitoring in the system.

8.3 Hotspot

SIP hotspot is a simple utility. Its configuration is simple, which can realize the function of group vibration and expand the quantity of sip account.

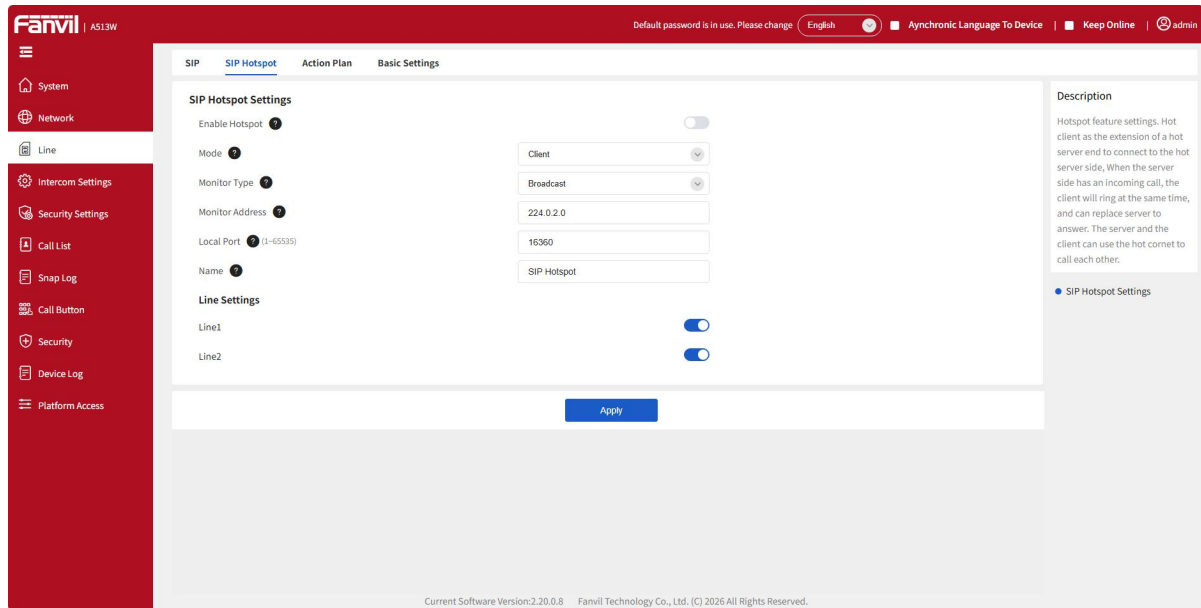
Take one device A as the SIP hotspot and the other devices (B, C) as the SIP hotspot client. When someone calls device A, devices A, B, and C will ring, and if any of them answer, the other devices will stop ringing and not be able to answer at the same time. When A B or C device is called out, it is called out with A SIP number registered with device A.

Table 9 - SIP Hotspot

Parameters	Description
Enable Hotspot	Enable or disable hotspot
Mode	This device can only be used as a client
Monitor Type	The monitoring type can be broadcast or multicast. If you want to restrict broadcast packets in the network, you can choose multicast. The type of monitoring on the server side and the client side must be the same, for example, when the device on the client side is selected for multicast, the device on the SIP hotspot server side must also be set for multicast
Monitor Address	The multicast address used by the client and server when the monitoring type is multicast. If broadcasting is used, this address does not need to be configured, and the system will communicate by default using the broadcast address of the device's wan port IP
Local Port	Fill in a custom hotspot communication port. The server and client ports need to be consistent
Name	Fill in the name of the SIP hotspot. This configuration is used to identify different hotspots on the network to avoid connection conflicts
Line Settings	Sets whether to enable the SIP hotspot function on the corresponding SIP line

Client Settings:

As a SIP hotspot client, there is no need to set up a SIP account, which is automatically acquired and configured when the device is enabled. Just change the mode to "client" and the other options are set in the same way as the hotspot.



Picture 17 - SIP Hotspot

The device is the hotspot server, and the default extension is 0. The device Acts as a client, and the extension number is increased from 1 (the extension number can be viewed through the [SIP hotspot] page of the webpage).

Calling internal extension:

- The hotspot server and client can dial each other through the extension number before
- Extension 1 dials extension 0

9. Web Configuration

9.1 Web Page Authentication

Users can log in to the device's web interface to manage user device information and operate the device. Users must provide the correct username and password to log in. If the password is entered incorrectly three times, the account will be locked, and users will have to wait 5 minutes before attempting to log in again.

Details are as follows:

- If a specific IP address logs in with different usernames more than the specified number of times, it will be locked out
- If a username logs in from different IP addresses more than the specified number of times, it will also be locked out

9.2 System >> Information

On this page, users can view the device's system information, including:

- Model
- Hardware Version
- Software version
- Uptime
- Last runtime
- WAN Speed
- MEMInfo
- System Time
- SN

This page also includes information on network status, including:

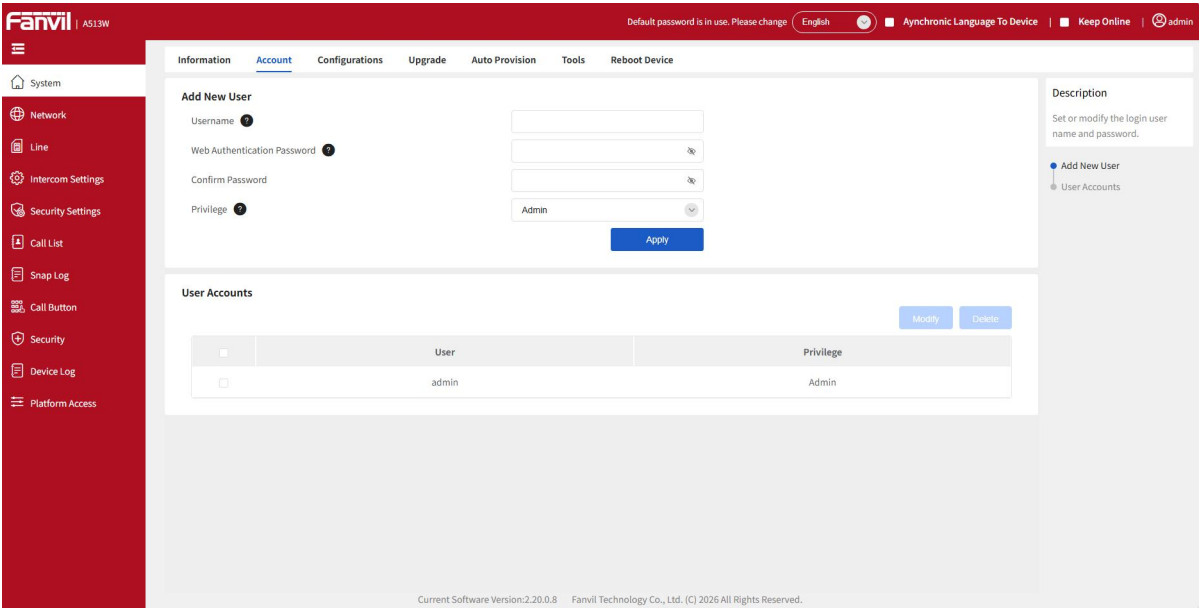
- Network Mode
- MAC Address
- Wi-Fi MAC
- Ethernet IP address
- Wi-Fi IP address
- Subnet Mask
- Router Gateway

This page also contains information about SIP accounts, including:

- SIP User

SIP Account Status (Registered / Unapplied / Trying / Timeout).

9.3 System >> Account

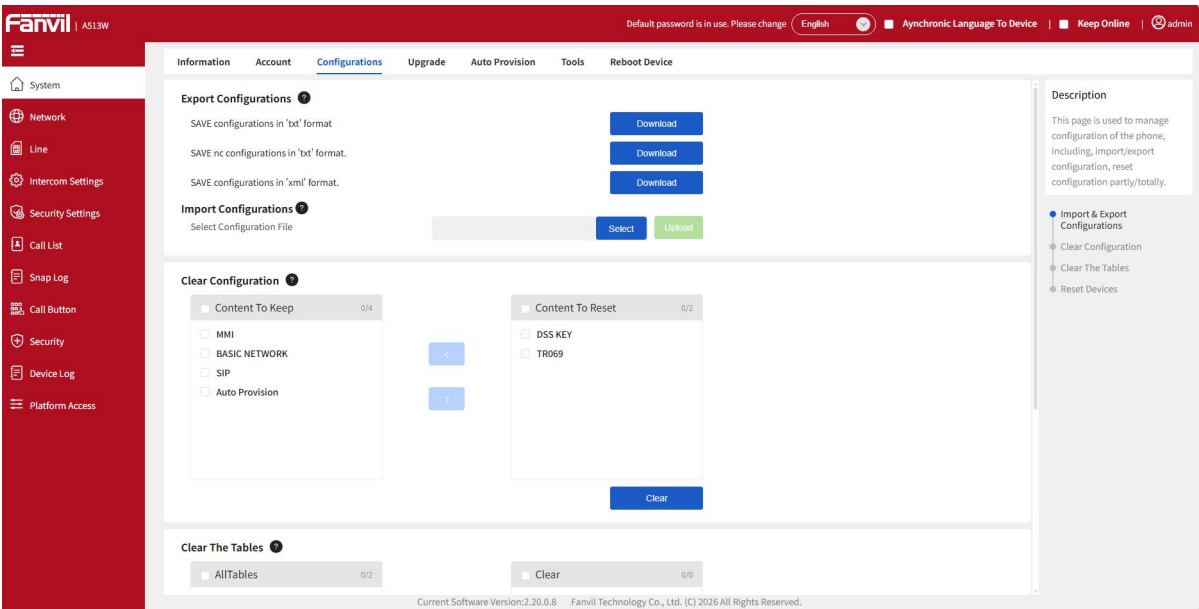


Picture 18 - Web Account

On this page the user can change the password for the login page. Users with administrator rights can also add or delete users, manage users, and set permissions and passwords for new users.

9.4 System >> Configuration

On this page, users with administrator privileges can view, export, or import the phone configuration, or restore the phone to factory Settings.



Picture 19 - Configurations

■ Export Configurations

Right click to select target save as, that is, to download the device's configuration file, suffix “.txt”. (Note: profile export requires administrator privileges)

■ Import Configurations

Import the configuration file of Settings.

■ Clear Configuration

Select the module in the configuration file to clear.

SIP: account configuration.

Auto Provision: automatically upgrades the configuration

TR069:TR069 related configuration

MMI: MMI module, including authentication user information, web access protocol, etc.

DSS Key: DSS Key configuration

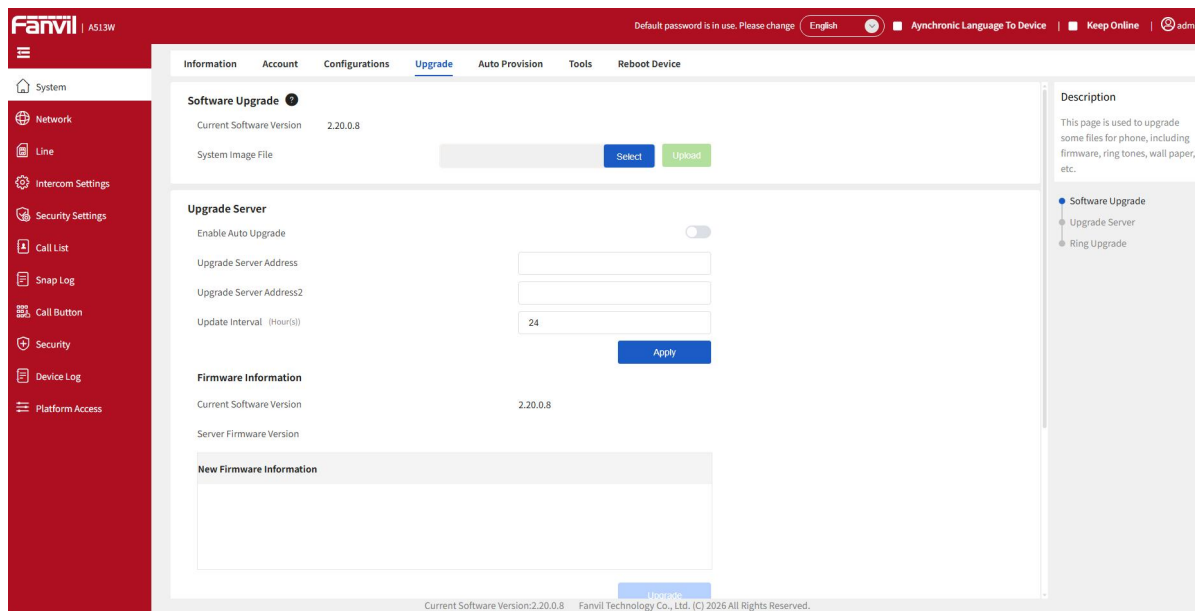
■ Clear Tables

Select the local data table to be cleared, all selected by default.

■ Reset Phone

The phone data will be cleared, including configuration and database tables.

9.5 System >> Upgrade



Picture 20 - Upgrade

Upgrade the software version of the device, and upgrade to the new version through the webpage. After the upgrade, the device will automatically restart and update to the new version.

Click select, select the version and then click upgrade.

Upgrade the ringtone,support wav and mp3 format.

Online Upgrade:

For online firmware upgrades, the device sends an HTTP request to the server, which returns the corresponding description file, a 404 error, or a timeout. Upon receiving the response, the device parses the version description file and prompts the user to confirm whether to upgrade to the new version.

Table 10 - Online Upgrade Parameters

Parameter	Description
Upgrade Server	
Upgrade Server Address	Enter the address of the available primary upgrade server (HTTP server).
Upgrade Server Address2	Enter the address of the available backup upgrade server (HTTP server). If the primary server is unavailable, the device will request from the backup server.
Firmware Information	
Current Software Version	It will show Current Software Version.
Server Firmware Version	It will show Server Firmware Version.
[Upgrade] button	If there is a new version txt and new software firmware on the server, the page will display version information and upgrade button will become available; Click [Upgrade] button to upgrade the new firmware.
New version description information	When there is a corresponding TXT file and version on the server side, the TXT and version information will be displayed under the new version description information.

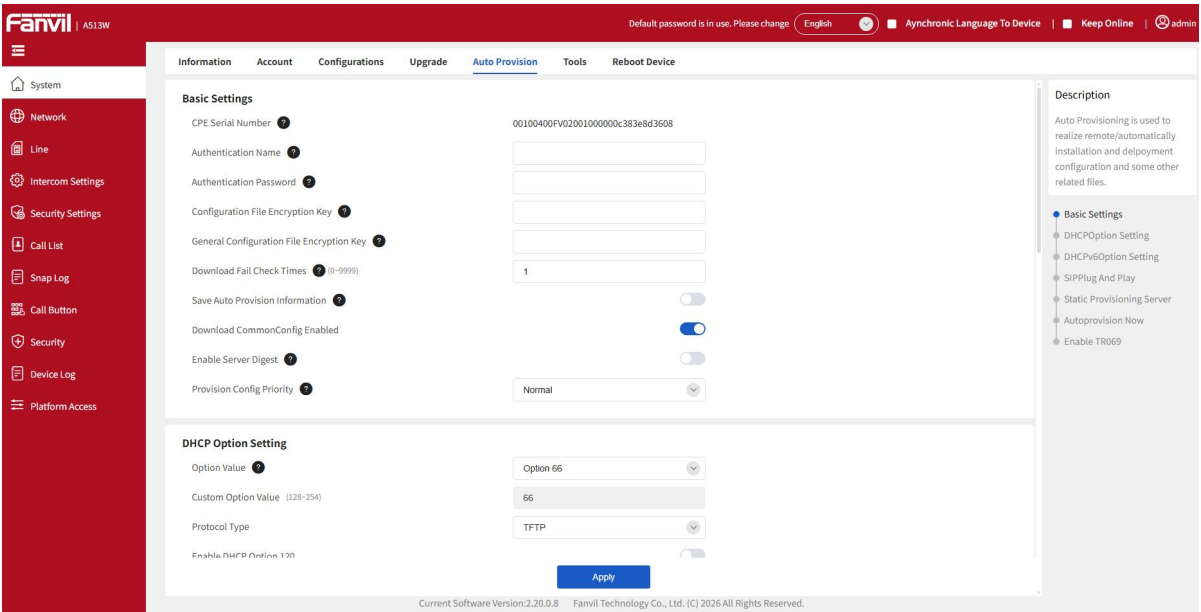
- The file requested from the server is a TXT file called vendor_model_hwv1_0.txt.Hw followed by the hardware version number, it will be written as hw10 if no difference on hardware. All Spaces in the filename are replaced by underline.
- The URL requested by the phone is HTTP:// server address/vendor_Model_hwv1_0.txt: The new version and the requested file should be placed in the download directory of the HTTP server.
- TXT file format must be UTF-8
- vendor_model_hwv1_0.TXT The file format is as follows:
Version=1.6.3 #Firmware
Firmware=xxx/xxx.z #URL , Relative paths are supported and absolute paths are possible, distinguished by the presence of protocol headers.
BuildTime=2018.09.11 20:00

Info=TXT|XML

Xxxxx
Xxxxx
Xxxxx
Xxxxx

9.6 System >> Auto Provision

Web Interface: Log in to the device's web interface and navigate to [System] >> [Auto Provision].



Picture 21 - Auto Provision Settings

Devices support four methods for obtaining automatic deployment application parameters: SIP Plug-and-Play, DHCP options, Static provision, and TR069.

Supported transfer protocols: FTP, TFTP, HTTP, HTTPS.

<http://www.fanvil.com.cn/Support/download.html>

Table 11 - Auto Provision

Auto provision		
Parameters		Description
Basic settings		
CPE Number	Serial	Displays the serial number of the current device.

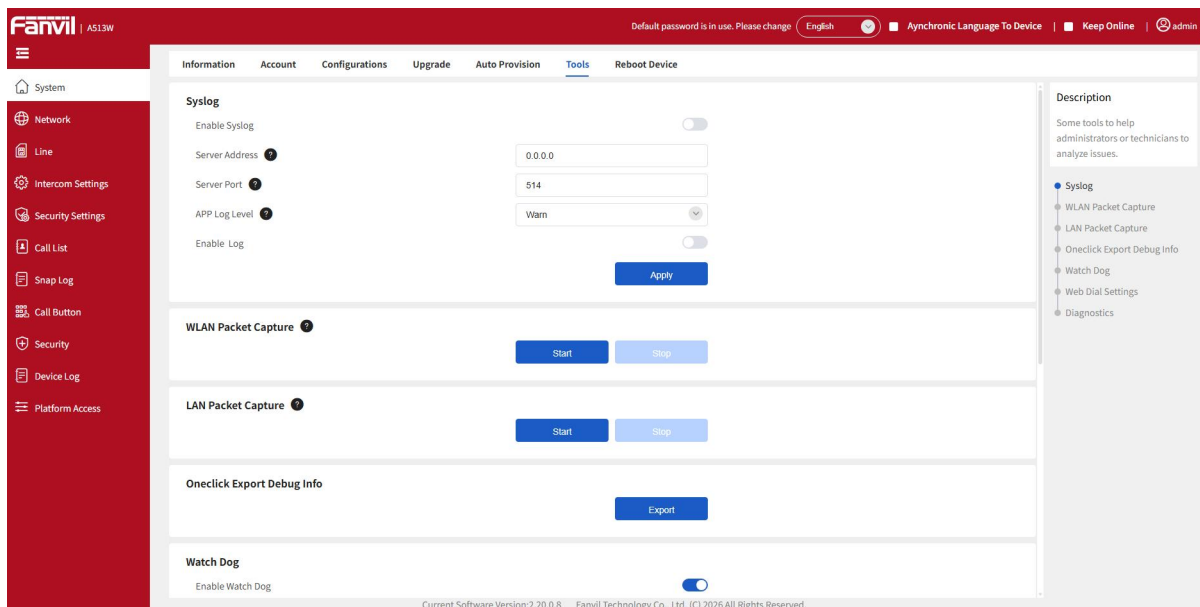
Authentication Username	Configure the FTP server username; no configuration is required for the TFTP protocol; if downloading via FTP, leave this field blank, and the default FTP user "anonymous" will be used
Authentication Password	Configure the password corresponding to the FTP server user
Configuration File Encryption Key	If the configuration file to be upgraded is an encrypted file, enter the encryption password for that configuration here
General Configuration File Encryption Key	If the general configuration file to be upgraded is an encrypted file, enter the encryption password for that configuration here
Download Fail Check Times	The default value is 1. If the configuration download fails, it will be retried once.
Save Automatic Provision Information	Whether to save automatic update information.
Download CommonConfig Enabled	Whether to download the generic configuration file during automatic upgrades.
Enable Server Digest	If the terminal verifies configuration file content using the Digest method, the terminal will trigger a download update whenever the configuration on the server is modified or when the configuration on the terminal differs from that on the server.
Provision Config Priority	The default setting is "Normal," meaning the phone uses the most recently modified configuration regardless of whether it was applied manually or automatically. If "Manual Priority" is selected, manually configured settings will override those deployed automatically; however, automatic deployments will not override manually modified settings.
DHCP Configuration Parameters	
Option Value	Configure DHCP options. DHCP options support three methods for obtaining automatic deployment application parameters: DHCP Custom Option, DHCP Option 66, and DHCP Option 43. When obtaining automatic deployment application parameters via DHCP, users may select any one of these; the terminal defaults to DHCP Option 66.
Custom Option Value	Valid values for custom options range from 128 to 254. The custom option type must match the one defined by the DHCP server.
Protocol Type	Select the server type from the following four options: FTP, TFTP, HTTP, and HTTPS.

Enable DHCP Option 120	Set the SIP server address using DHCP Option 120.
DHCPv6 Option Settings	
Option Value	Configure DHCP options. DHCP options support three methods for obtaining application deployment parameters: DHCP Custom Option, DHCP Option 66, and DHCP Option 43. When obtaining application deployment parameters via DHCP, users may select any one of these options; the default setting for the terminal is DHCP Disabled.
Custom Option Values	Valid values for custom options range from 128 to 254. The custom option type must match the one defined by the DHCP server.
SIP Plug And Play	
Enable SIP Plug	Configure whether to enable PnP. If the terminal is set to enable PnP mode, it will periodically send SIP SUBSCRIBE messages via multicast after startup. Any SIP server compatible with this specific message will respond and send back a SIP NOTIFY message containing the path to the auto-configuration/deployment server. Through this path, the terminal can obtain the configuration file to be downloaded.
Server Address	Configure PnP Server
Server Port	Configure PnP Port
Transport Protocol	Configure the PnP transmission protocol; choose between UDP or TCP
Update Interval	Configure the PnP timeout in hours
Static Provisioning Server	
Server Address	Configure the address of the FTP server being set up. The server address can be in IP format, such as 192.168.1.1, or in domain name format, <u>such as ftp.domain.com</u> . The system also supports configuring subdirectories on the server. For example, you can specify the server address as 192.168.1.1/ftp/Config/ or <u>ftp.domain.com/ftp/config</u> . This means the server address is 192.168.1.1 or <u>ftp.domain.com</u> , and the file storage path is under /ftp/Config/. The subdirectory path may or may not end with a "/"
Configuration File Name	The name of the configuration file to be updated; when using the automatic update feature, this field is typically left blank, allowing the device to use its own MAC address as the filename to retrieve the file from the server.
Protocol Type	Select the server type from the following four options: FTP, TFTP, HTTP, and HTTPS.

Update Interval	Configure the update interval in hours
Update Mode	Automatic Update Type 1. Disabled 2. Update after restart 3. Scheduled updates, i.e., update at specified intervals
TR069	
Enable TR-069	Enable TR-069
ACS Server Type	Select the ACS server type; the terminal currently supports both China Telecom and China Unicom ACS servers.
ACS Server Address	Enter the ACS server address.
ACS Login Account	Enter the ACS server authentication username
ACS Login Password	Enter the ACS server authentication password
Enable TR-069 tone	TR-069 connection success tone
TLS version	Default TLS 1.2 version
Inform Sending Period	Configure the interval in seconds; valid range: 1 - 9999.
STUN server address	Enter STUN address
Enable STUN	Enable STUN

9.7 System >> Tools

This page provides tools to help users resolve issues.



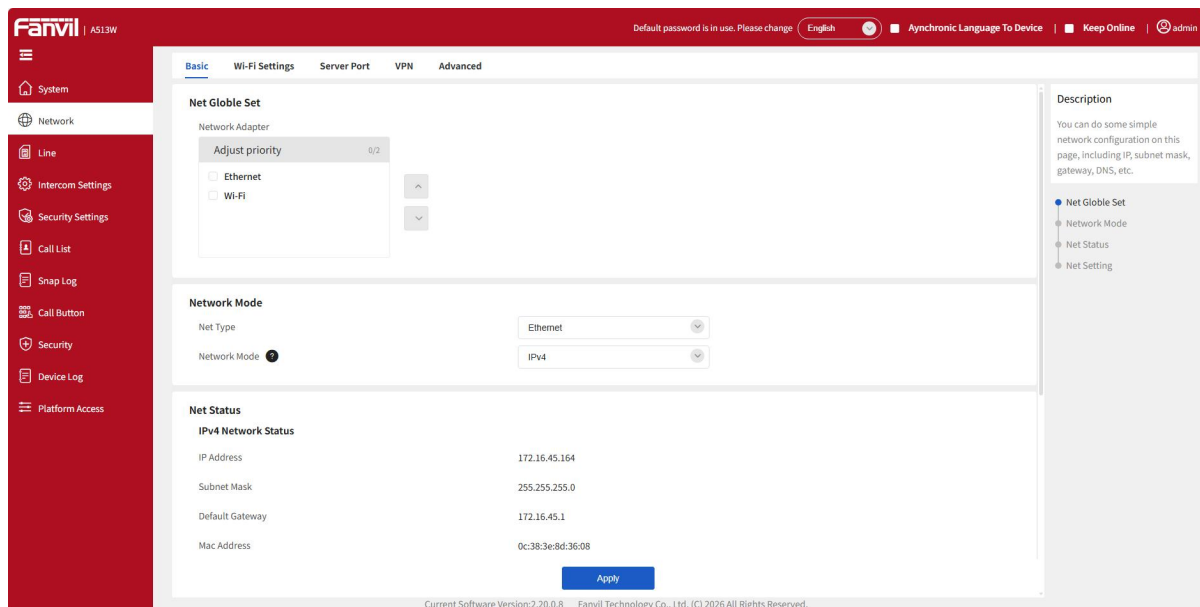
Picture 22 - Tools

Syslog: After enabling this feature, configure the syslog software address. During operation, the device's log information will be recorded in the syslog software. If a problem occurs, you can provide the log information to Technical Support for analysis.

For other details, please refer to [10: Trouble shooting](#).

9.8 Network >> Basic

Users can configure the network connection type and parameters on this page.



Picture 23 - Basic Network Settings

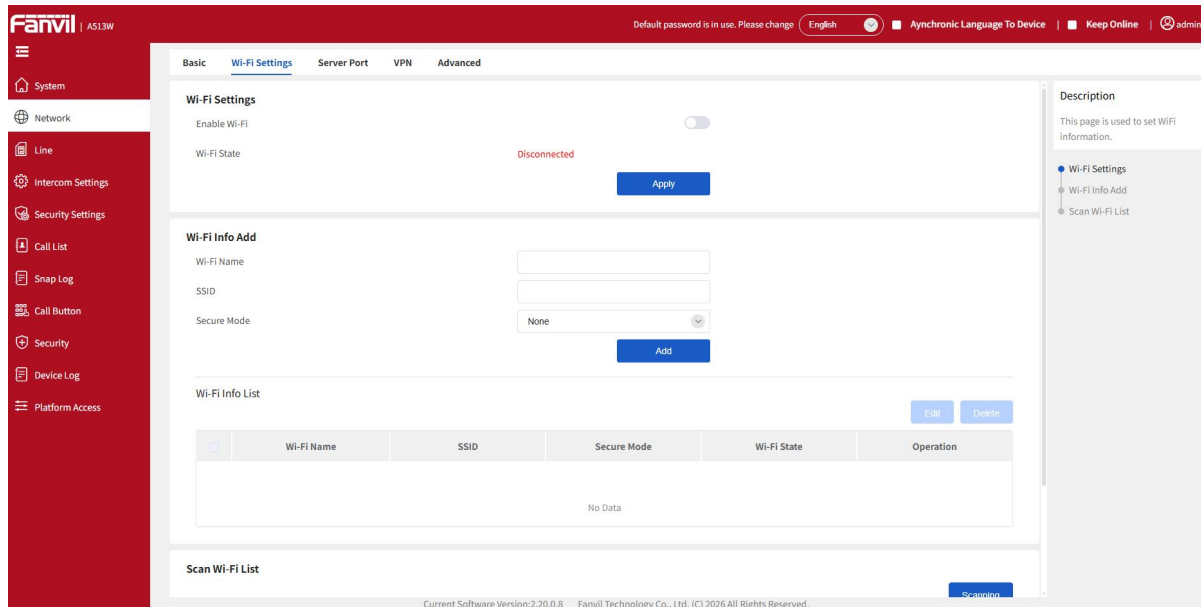
Table 12 - Basic Settings Parameters

Parameters	Description
Net Type	Set the network global mode to Ethernet or Wi-Fi
Network Mode	IPv4, IPv6, and IPv4 & IPv6 modes
Network Status	
IP Address	Current device IP
Subnet Mask	Subnet mask
Default Gateway	Current default gateway IP
MAC Address	Display the local MAC address
Network Setting	
Select the appropriate network mode. The equipment supports three network modes:	
Static IP	If your ISP has provided a fixed IP address, you can select this option. After selecting it, you must enter the following information in the static configuration fields: static IP address, subnet mask, gateway, DNS, and other relevant details. If you do not know this information, please contact your ISP or network administrator for assistance.
DHCP	When this mode is selected, network-related information will be automatically obtained from the DHCP server; you do not need to manually enter these fields.
PPPoE	When selecting this mode, you must enter your ADSL login username and password.
DHCP Hostname	Set the name displayed during DHCP discovery
Enable Vendor Identifier	Once enabled, the configured vendor identifier will appear in the DHCP Option 60 field
Vendor Identifier	Customization is supported; after enabling the vendor identifier, the configured vendor identifier will appear in the DHCP Option 60 field
When using static mode, you need to configure the relevant static settings.	
DNS Server Configuration Method	Select the configuration mode for the DNS server
Primary DNS Server	Please enter the address of your primary DNS server
Secondary DNS Server	Please enter the address of your secondary DNS server
DNS Domain	Please enter your DNS domain name
Note: 1) After configuring the settings, click [Submit] for the changes to take effect.	

2) If you change the IP address, the web page will stop responding. In this case, you must enter the new IP address in the address bar to connect to the device.

9.9 Network >> WiFi Settings

This page allows you to enable Wi-Fi, add Wi-Fi information, and view the list of wireless networks.



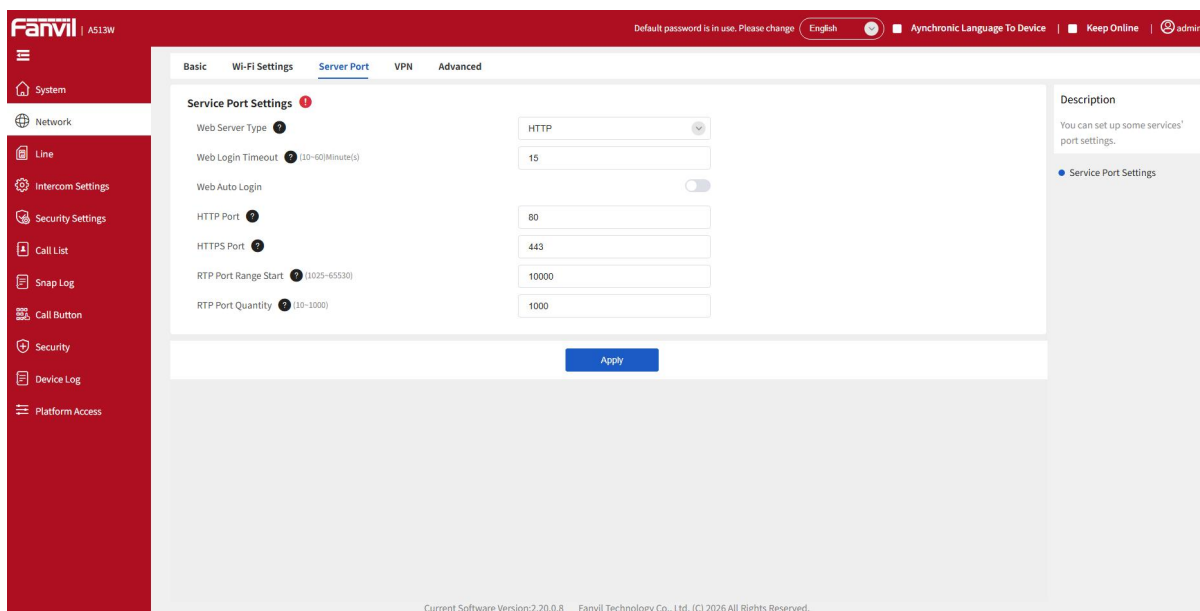
Picture 24 - Wi-Fi Settings Interface

Wi-Fi Connection and Management:

- After turning on the Wi-Fi switch, click the [**Scan**] button. Select the network you want to connect to from the list of detected wireless networks, click [**Connect**], enter the password, and then click [**OK**] to complete the connection.
- You can also select another network directly from the list to quickly switch the currently connected wireless network.
- To add a network manually, enter the network name, SSID, and other relevant information, then tap [**Add**] to add the network.
- Select a saved wireless network from the list to edit or delete it.

9.10 Network >> Service Port

This page provides the settings of webpage login protocol, protocol port and RTP port.

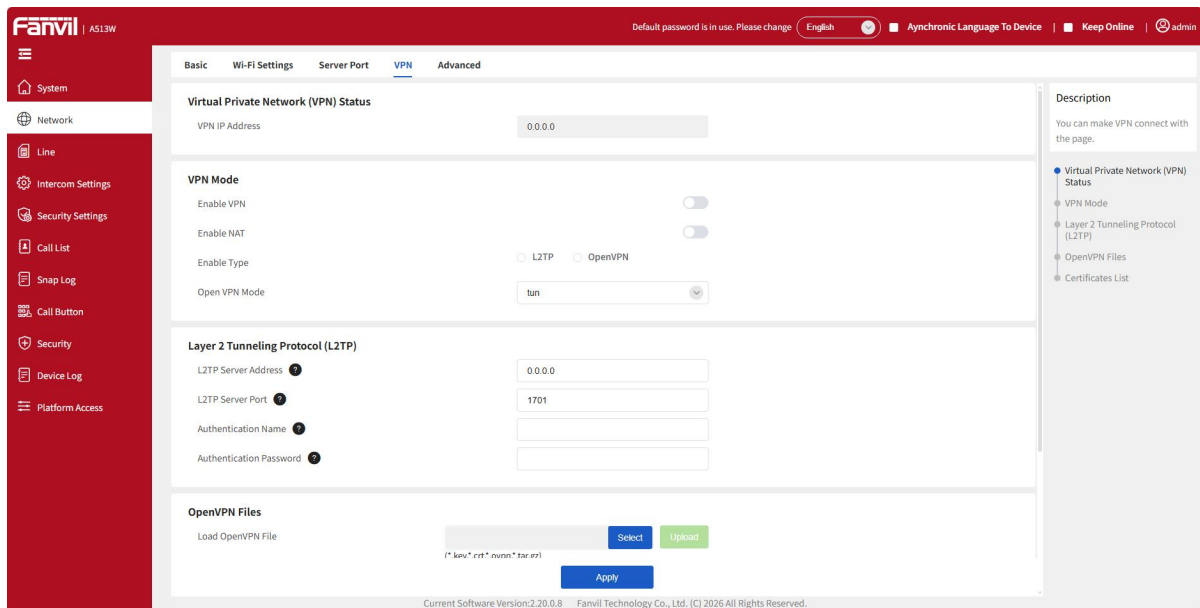


Picture 25 - Service Port Settings Interface

Table 13 - Server Ports

Parameters	Description
Web Server Type	Changes take effect after a restart. You can select HTTP/HTTPS for web login
Web Login Timeout	Default is 15 minutes. The login page will automatically close after the timeout, requiring you to log in again
Web Auto Login	After the timeout, you will not need to enter your username and password; the system will automatically log you in
HTTP Port	Default is 80. For enhanced security, you can set a port other than 80 For example: 8080. Web login: HTTP://ip:8080
HTTPS Port	Default is 443; usage is the same as for the HTTP port
RTP Port Start Range	The range is 1025–65535. The RTP port value starts from the set initial value, and for each call, the voice and video port values are incremented by 2
RTP Port Quantity	Number of calls

9.11 Network >> VPN



Picture 26 - Network Settings: VPN

A Virtual Private Network (VPN) is a technology that enables devices to establish a connection to a server and become part of the server's network. Network traffic from the device can be routed through the VPN server.

For some users, particularly business users, establishing a VPN connection may be required before activating the line registration. The device supports two VPN modes: Layer 2 (L2TP) and the OpenVPN protocol.

Users must enable (or disable) VPN configuration via the login page.

■ L2TP

Note: The device only supports basic, unencrypted authentication and data transmission. If you require data encryption, please use the OpenVPN feature instead.

Users must log in to the device's web interface, navigate to [Network] > [VPN], and establish an L2TP connection. In VPN mode, check the "Enable VPN" option, select "L2TP," and then enter the L2TP server address, L2TP username, and authentication password. Click "Submit," and the device will attempt to connect to the L2TP server.

When establishing a VPN connection, the VPN IP address will be displayed in the VPN status section. There may be a delay in establishing the connection. Users should refresh the page to update the status promptly.

Once the VPN is configured, the device will automatically attempt to connect to the VPN each time unless the user disables it. If the VPN connection does not establish promptly, users can try restarting the device and then check if the VPN connection was successfully established.

■ **OpenVPN**

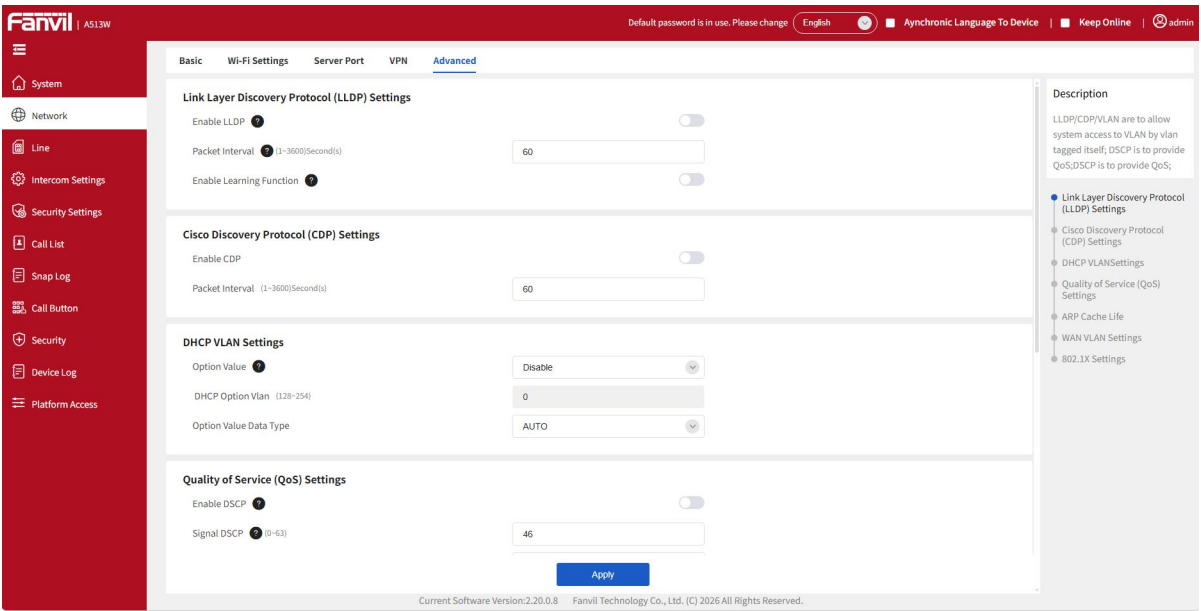
To establish an OpenVPN connection, users will receive the following authentication credentials and configuration file name from their OpenVPN service provider:

- OpenVPN Configuration file: client.ovpn
- CA Root Certificate: ca.crt
- Client Certificate: client.crt
- Client Key: client.key

Next, the user uploads these files to the device’s web interface under [Network] > [VPN] and selects the OpenVPN files. The user must select the “Enable VPN” option, choose “OpenVPN” under VPN Mode, and finally check “Apply” to enable the OpenVPN feature.

Similar to the L2TP connection method, a connection will be established every time the system reboots until the user manually disables it.

9.12 Network >> Advanced



Picture 27 - Network Settings

Advanced network settings are typically configured by IT administrators to improve the quality of the device's services.

Table 14 - Basic Network Parameters

Parameter	Description
LLDP Settings	
Enable LLDP	Enable LLDP Protocol
Packet Interval	1–3600 seconds, LLDP transmission detection interval
Enable Learning Function	Learn discovered device information onto the device
QoS Settings	
Enable DSCP	Voice Quality Assurance (default: disabled)
Signal DSCP	0–63, DSCP values for SIP messages
Video DSCP	0–63, DSCP value for video data
DHCP VLAN Settings	
Option Value	To configure DHCP options, select "DHCP Custom Option." The default setting is "DHCP Disabled."
DHCP Option VLAN	128–254; obtain VLAN value via DHCP
WAN VLAN Settings	
Enable VLAN	Enable VLAN port; the system will automatically handle VLAN tags to provide direct access to the VLAN network
WAN VLAN ID	The VLAN ID value configured for the system's WAN port
802.1p Signal Priority	802.1p priority for SIP messages
802.1X Settings	
802.1X Mode	Authenticate network clients (or ports)
Identity	Authentication username
Password	Authentication Password

9.13 Line >> SIP

Fanvil | AS13W

System

Network

Line

Intercom Settings

Security Settings

Call List

Snap Log

Call Button

Security

Device Log

Platform Access

Default password is in use. Please change

English

Aynchronous Language To Device

Keep Online

admin

SIP

SIP Hotspot

Action Plan

Basic Settings

Line

Line

SIP1

Register Settings

Line Status

Inactive

Enable

Username

Display Name

Realm

Authentication User

Authentication Password

Server Name

SIP Server 1

Server Address

Server Port

Transport Protocol

5060

UDP

Apply

Description

It shows phone registration account basic settings and sip account function advanced settings.

Line

Register Settings

Basic Settings

Codecs Settings

Video Codecs

Advanced Settings

SIP Global Settings

Current Software Version:2.20.0.8

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Basic Settings

Enable Auto Answering ?	☒
Auto Answering Delay ? (0~120)Second(s)	0
Enable Hotline ?	☐
Hotline Delay ? (0~30)Second(s)	0
Hotline Number ?	
Dial Without Registered ?	☐
DTMF Type ?	AUTO
DTMF SIP INFO Mode ?	Send 10/11
Request With Port ?	☒
Use STUN ?	☐
Use VPN ?	☒
Enable Failback ?	☒
Signal Failback ?	☐
Failback Interval ? (10~65535)Second(s)	1800
Signal Retry Counts ? (1~10)	3

Apply

Codecs Settings ?

Disabled Codes 0/8		Enabled Codes 0/6	
☐ G.726-16	←	☐ G.722	↑
☐ G.726-24	→	☐ G.711U	↓
☐ G.726-32		☐ G.711A	
☐ G.726-40		☐ G.729AB	
☐ G.723.1		☐ opus	
☐ AMR		☐ iLBC	
☐ telephone-event			
☐ AMR-WB			

Video Codecs

Disabled Codes 0/0		Enabled Codes 0/1	
No data	←	☐ H264	↑
	→		↓

Advanced Settings

Use Feature Code ?	☐
Enable Blocking Anonymous Call ?	
Disable Blocking Anonymous Call ?	
Send Anonymous On Code ?	
Send Anonymous Off Code ?	
Enable Session Timer ?	☐
Session Timeout ? (90~7200)Second(s)	1800
Response Single Codec ?	☐
Keep Alive Type ?	UDP
Keep Alive Interval ?	30
User Agent ?	
Keep Authentication ?	☐

Blocking Anonymous Call ?	☐
RTP Encryption(SRTP) ?	Disable v
Enable OSRTP	☐
Specific Server Type ?	COMMON v
SIP Version ?	RFC3261 v
Anonymous Call Standard ?	Disable v
Local Port ? (0~65535)	5060
Ring Type ?	Default v
Enable user=phone ?	☐
Use Tel Call ?	☐
Auto TCP ?	☐
Enable PRACK ?	☐
Enable Rport ?	☒
Call-ID Format	\$id@\$ip

DNS Mode ?	DNS A	
Enable Long Contact ?		☐
Enable Strict Proxy ?		☒
Convert URI ?		☒
Use Quotein Display Name ?		☐
Enable GRUU ?		☐
Sync Clock Time ?		☐
Enable Inactive Hold		☐
Caller ID Header ?	PAI-RPID-FROM	
Use 182 Response for Call waiting ?		☐
Enable Feature Sync ?		☐
Enable SCA ?		☐
TLS Version ?	TLS 1.2	
uaCSTA Number		
Enable Click To Talk		☐
Enable ChangePort		☐
Flash Info Content Type		
Flash Info Content Body		
Server Expire ?		☒
Unregister On Boot		☐
Enable MAC Header		☐
Enable Register MAC Header		☐
PTime	Disable	
Enable Deal 180		☒
Transaction Timer T1 ? (500~10000)Millisecond(s)	500	
Transaction Timer T2 ? (2000~40000)Millisecond(s)	4000	
Transaction Timer T4 ? (2500~60000)Millisecond(s)	5000	

SIP Global Settings

Strict Branch ?	☐
Enable Group ?	☐
Enable RFC4475 ?	☒
Enable Strict UA Match ?	☐
Registration Failure Retry Time ? (Second(s))	32
Local SIP Port ?	5060
Enable uaCSTA	☐
Strict Tag Match	☒

Apply

Picture 28 - SIP Line Settings

Table 15 - SIP Line Configuration Instructions

Parameters	Description
Registration Settings	
Line Status	This page displays the current status of the line. To obtain the latest online status, users must manually refresh the page.
Enabled	Is the service for this line enabled?
Username	Enter the username for the service account.
User Authentication	Enter the authentication name for the service account.
Display Name	Enter the name that will be displayed when the call request is sent.
Authentication Password	Enter the authentication password for the service account.
Realm	Enter the SIP domain provided by the service provider.
Server Name	Enter the server name
SIP Server 1	
Server Address	Enter the SIP server address
Server Port	Enter the SIP server port
Transport Protocol	Set the SIP transport protocol to use TCP, UDP, or TLS
Registration Expiration	Set the SIP registration duration
SIP Server 2	
Server Address	Enter the SIP server address
Server Port	Enter the SIP server port
Transport Protocol	Set the SIP transport protocol to use TCP, UDP, or TLS

Registration Expiration	Set the SIP registration duration
Proxy Server Address	Enter the IP address of the SIP proxy server.
Proxy server port	Enter the SIP proxy server port; the default is 5060.
Proxy User	Enter the proxy username
Proxy Password	Enter the proxy password
Backup Proxy Server Address	Enter the backup proxy server address.
Backup proxy server port	Enter the backup proxy server port; the default is 5060.
Basic Settings	
Enable Auto Answering	Enable auto-answer; calls will be answered automatically after the delay time has elapsed.
Auto Answering Delay	Set the wait time for the system to automatically answer.
Dial Without Registered	Allow Unregistered Outgoing Calls
DTMF Type	Set the DTMF type for the line.
DTMF SIP INFO Mode	Configure the SIP INFO mode to send '*' and '#' or '10' and '11'
Request With Port	Does the URI include port information?
Use a VPN	Configure the line to use a VPN network.
Use STUN	Ensure NAT traversal by configuring the connection to use STUN.
Enable Failback	Switch to the primary server when it is available
Fallback Interval	The time interval at which Register messages are used to periodically check if the main proxy is available
Signal Failback	In a multi-proxy scenario, whether to allow INVITE/REGISTER requests to also perform failback
Signal Retry Counts	The number of attempts a SIP request makes to determine if a proxy is unavailable in a multi-proxy scenario
Codec Settings	Set the priority and availability of codecs by adding or removing them from the list.
Advanced Settings	
Use Feature Code	If this setting is enabled, the functions in this section will not be controlled by the device itself, but by the server. To control the device, the device will send a feature code to the server via the number specified in the Dial Code field.
Enable Blocking Anonymous Call	Dial the feature code to the server.
Disable Blocking	Dial the feature code to the server.

Anonymous Call	
Send Anonymous On Code	Dial the feature code to the server.
Send Anonymous Off Code	Dial the feature code to the server.
Enable Session Timer	Enable call timing. If the call duration is not received before the timeout, the call will end.
Session Timeout	Set the call timeout duration.
Response Single Codec	If enabled, the device will use a single codec to respond to incoming call requests.
Keep Alive Type	Set the connection type to use UDP or SIP OPTION packets to ensure NAT is open.
Keep Alive Interval	Set the interval for sending keep-alive packets.
Keep Authentication	Retain previously authenticated authentication parameters.
Blocking Anonymous Call	Reject any calls without caller ID.
User Agent	Set the user agent to match the software version by default
Specify server type	Configure to work with a specific server type; for details, refer to the "X5S/X6 Administrator's Manual".
SIP Version	Set the SIP version
Anonymous Call Standard	Set anonymous call standards
Local Port	Set Local Port
Ring Type	Set the ringtone type for the line
Enable user=phone	The `user=phone` field is present in the INVITE SIP message.
Use Tel call	Configure whether to enable phone calls
Auto TCP	Configure to automatically use the TCP protocol for transmission when the message body exceeds 1500 bytes; ensure transmission reliability
Enable Rport	Configure the line to add the Rport SIP header.
Enable PRACK	Configure the connection to support PRACK SIP messages.
DNS Mode	Select DNS mode: A, SRV, NAPTR
Enable Long Contact	Configure the Contact field to carry additional parameters; for use with SEM servers
Specific Server Type	Compatibility with special servers (uses the recipient's source address when returning messages, no longer uses the address in the via field)
Convert URI	Configure whether to enable URI conversion
Use quotation Display	Whether to add display names in quotes

Name	
Enable GRUU	Configure to enable GRUU
Sync Clock Time	Synchronize with server time
Enable Inactive Hold	After enabling, you can see in the call hold packet capture (in the INVITE packet) that the SDP is set to "inactive"
Caller ID Header	Set Caller ID header fields
Use 182 Response For Call waiting	Configure the device to use the 182 call-in response
Enable Feature Sync	Enable/Disable Feature Sync
Enable SCA	Enable/Disable SCA (Shared Call)
Server Expire	Set server timeout
TLS version	Select TLS version
uaCSTA number	Set the uaCSTA number
Enable Click To Talk	For use with special servers; once enabled, click to make a call
Enable ChangePort	Enable Port Update
Unregister On Boot	Enable Logout
Enable MAC Header	Enable/Disable MAC in SIP Packets and User Agent During Registration
Enable Register MAC Header	Enable/Disable MAC in User Agent During Registration
PTime	Set whether to include the ptime field; default is not included
Enable Deal 180	Enabled: Upon receiving 183+SDP, play IVR; upon subsequently receiving 180, play local tone. Disabled: Upon receiving 183+SDP, play IVR; when 180 is received afterward, do not play the local tone
Transaction Timer T1	500–10,000 milliseconds; configure the duration of SIP transaction timer T1, in milliseconds
Transaction Timer T2	2000–40000 ms: Configure the duration of SIP transaction timer T2, in milliseconds
Transaction Timer T4	2500–60000 milliseconds; configure the duration of SIP Transaction Timer T4, in milliseconds
SIP Global Settings	
Strict Branch	Set strict matching for the Branch field
Enable Group	Set to enable grouping
Enable RFC 4475	Configure RFC 4475
Enable strict UA match	Enable Strict UA Matching

Registration failure retry time	Set registration failure retry time
Enable SIP Port	Modify Phone SIP Port
Enable uaCSTA	Set to Enable the uaCSTA Feature
Strict Tag Match	Whether to perform strict tag validation on SIP signaling. 1 indicates strict validation (default); 0 indicates validation only when the signaling carries a tag, and no validation if no tag is present.

9.14 Lines >> SIP Hotspot

SIP Hotspot is a simple and practical feature. It is easy to configure, supports group ringing, and allows for the expansion of SIP account capacity.

See [8.3 Hotspot](#)

9.15 Line >> Action Plan

Action Plan Application: A technology defined and designed by Fanvil for remote control and behavioral integration between Fanvil terminal devices and other devices. Specifically, when a specific event occurs on a Fanvil terminal, the terminal can execute an action based on a Plan rule.

Log in to the device web interface, navigate to **[Line] > [Action Plan]**, and configure the Action Plan rules.

Picture 29 - Action Plan

Table 16 - Action Plan

Configuration Parameter Description

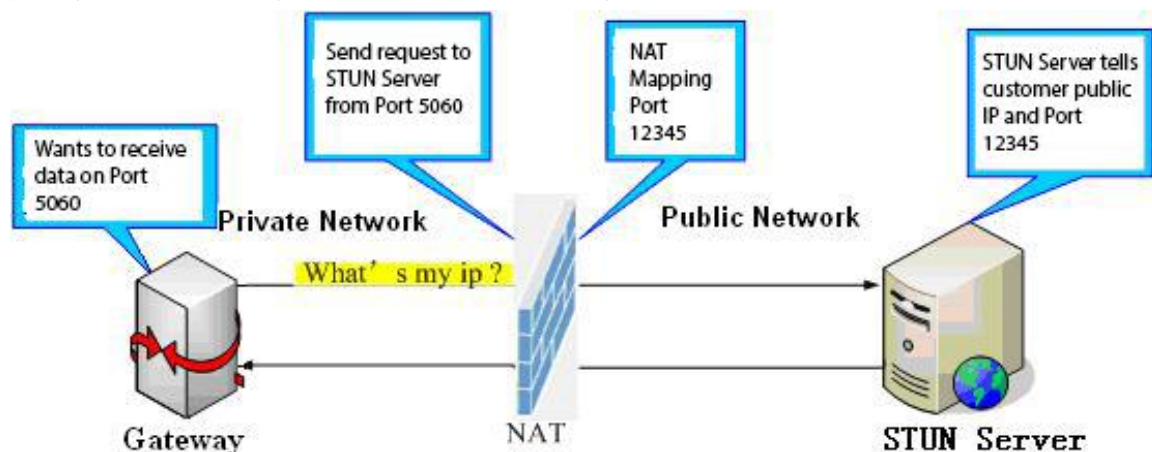
Configuration Parameter Description	
Action	
Description	The action to be performed when the rule configured for the number is triggered.
Options	Default: When the rule is triggered, the device converts the call to multicast based on the multicast address port configured in the URL settings. Convert to Multicast: When the rule is triggered, the device converts the incoming call to a multicast and sends it to the configured multicast address port. Mute: When the rule is triggered, the phone automatically mutes. Answer: When the rule is triggered, the phone automatically answers the incoming call. Play Audio: When the rule is triggered, play the specified audio file on this device or the remote device.
Default Value	Default
Number	
Function Description	The call number corresponding to each Action Plan; supports the use of number expressions.
Configuration Options	123; 1xx; 1.; 1[3,5,7,8]xxxxxxxxx; 5753[5-6]xxxx; X represents a match for any single digit; . represents a match for any digit; [] indicates a specific digit matching rule;
Default Value	None
Type	
Description	The type of time period during which the rule is triggered and executed
Options	Early: Triggered before the call is established. Connected: Triggers execution during a call Disconnected: Triggered after the call is ended
Line	
Description	The selected rule corresponds to the matched SIP line.
Options	Auto, SIP1 – SIPN; N is the maximum number of SIP lines supported by this device
Default Value	Auto
Direction	
Description	Behavior handling method corresponding to the configuration rule.
Options	Both: Triggers for both incoming and outgoing calls;

Configuration Parameter Description	
	Outgoing: Triggers for outbound calls; Incoming: Triggers for incoming calls;
Default Value	Both
URL	
Description	Default: The URL executed when the multicast rule is triggered.
Options	Supports HTTP/HTTPS, multicast addresses, and ports. 1. By default, supports sending an Action URL, as well as configuring multicast addresses and ports. 2. When a multicast rule is triggered, you can configure the multicast address and port. The configuration format is: When the action is set to "Default," the configuration format is: "mcast://multicast_address:port". When the action is set to "Convert Multicast," the configuration format is: "multicast_address:port".
Default Value	None
User Agent	
Description	The User Agent parameter carried when the rule is triggered.
Options	Any content
Default Value	None
Username	
Description	The username parameter passed when the rule is triggered.
Options	Any content
Default Value	None
Password	
Description	The password parameter passed when the rule is triggered.
Options	Any content
Default Value	None
MCAST Codec	
Description	The multicast code sent when a multicast conversion rule is triggered.
Options	G.722, G.711U, G.711A, G.729AB, G.723.1, G.726, iLBC, AMR, AMR-WB, Opus; Note: Supported codecs vary by model; refer to the actual codec used by the phone during operation.
Default Value	G.711U
MCAST Channel	
Description	The multicast channel used when the multicast conversion rule is

Configuration Parameter Description	
	triggered.
Options	0-25
Audio Files	
Description	When the action is "Play Audio," select the audio file to play.
Options	After uploading audio under [System] >> [Upgrade] >> [Ringtone Upgrade], the file will automatically sync to the options list.
Play Count	
Description	When the action is "Play Audio," you can specify the number of times the audio should be played.
Options	Play audio the set number of times
Auto-Hang Up	
Description	When the type is "Connected," the call automatically hangs up after the audio finishes playing
Options	Enable/Disable
Playback Interval	
Description	Set the wait time between each pair of audio plays when audio is played multiple times.
Options	0–86,400 seconds

9.16 Line >> Basic Settings

The STUN function can be understood as follows: Our device uses STUN to obtain the external IP address of the NAT and the external port for the SIP signaling listening port. It then replaces the IP address and port in the "contact" field of the SIP registration packet and proceeds with registration. This ensures that when someone calls you from the external network, they can find you! (Refer to the diagram below for clarification).



Picture 30 - Basic Settings

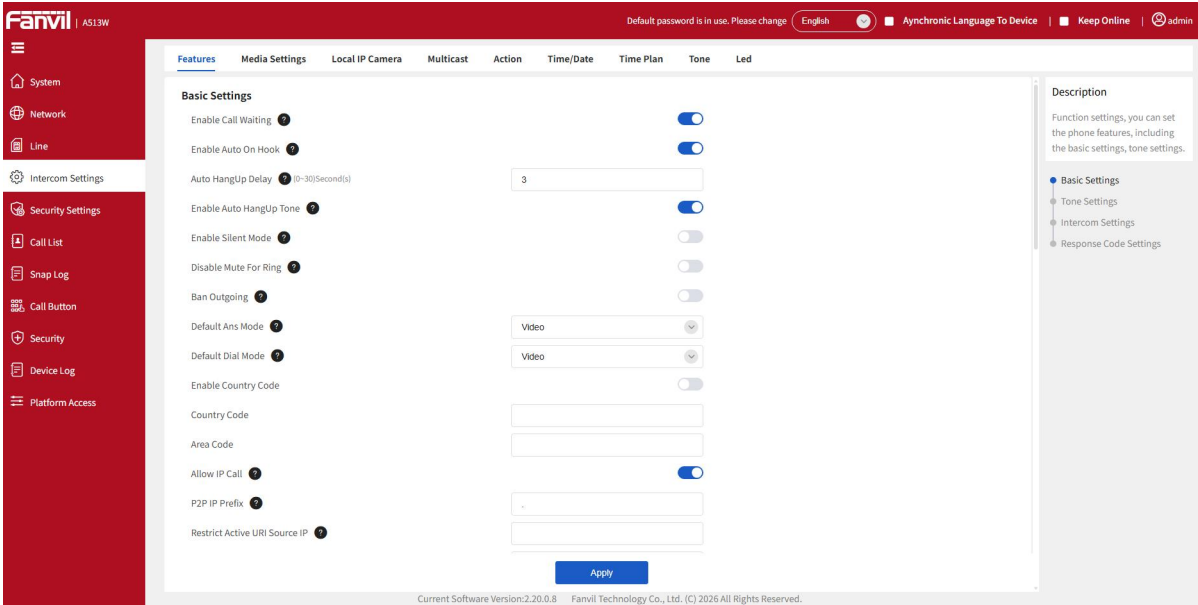
Picture 31 - Basic Line Settings

Table 17 - Basic Line Settings

Parameters	Description
STUN Settings	
STUN NAT Traversal	STUN Penetration Status.
Server Address	Set STUN server address.
Server Port	Set the STUN server port; the default is 3478.
Binding Period	Set the STUN refresh interval to ensure NAT traversal is enabled.
SIP Waiting Time	Set the timeout for the STUN binding before transmitting SIP messages.
SIP P2P Settings	
Enable Auto Answering	Enable automatic answering of incoming IP calls after the timeout period
Auto Answering Delay	0–120 seconds, auto-answer timeout setting
DTMF Type	Set the DTMF type for the line.
DTMF SIP INFO Mode	Set the SIP INFO mode to send ‘*’ and ‘#’ or ‘10’ and ‘11’
Use VPN	Use VPN IP for Outgoing Calls
Call-ID Format	Set the format for the Call-ID field in SIP messages
Display Name	Display Name for IIP Calls
Request-Line-Format	By default, the device sends an RTP packet when it receives a 183 ringback tone before a call. You can control whether to send

	the RTP packet by modifying the configuration settings
--	--

9.17 Intercom Settings >> Features



Picture 32 - Feature

Table 18 - Common Device Function Settings

Parameters	Description
Basic Settings	
Enable Call Waiting	Enabled by default. Enabling this feature allows the user to answer a second call while on a call.
Enable Auto On Hook	Configure whether to enable automatic hang-up Automatically return to standby after call ends
Auto HangUp Delay	Configure the auto-hangup time. In hands-free mode, the device automatically returns to standby after the auto-hangup time has elapsed
Enable Auto Hangup Tone	Configure whether to play a prompt tone after auto-hangup
Enable Silent Mode	When enabled, the device is in silent mode. Incoming calls will not ring; this mode can be disabled using the volume keys or the mute button.
Disable Mute for Ring	When enabled, the mute button on the device will not function.
Ban Outgoing	Disable Outgoing Calls: When enabled, lifting the handset to dial will result in a busy tone, prompting you to hang up.
Default Answering Mode	Default Answer Mode: Video or Audio

Default Dial Mode	Default Dialing Mode: Video or Audio
Enable Country Code	Enable Country Code
Country code	Enter Country Code
Area code	Enter Area Code
Allow IP call	If enabled, the device allows direct IP calls; otherwise, it does not.
P2P IP prefix	Set the prefix for peer-to-peer IP calls.
Restrict Active URI Source IP	Set the IP addresses from which the device accepts Active URI commands. Note: This feature is typically used for device management.
Push XML Server	Configure the XML server; when the phone receives a request, it will determine whether to display the corresponding content sent by the server to the specified phone.
Line Display Format	Customize the line format, such as SIPn/SIPn:xxx/xxx@SIPn
Call Number Filter	Configure the special character &. If the other party's number is 78&9, the & will be filtered out during the call
Auto Resume Current	If the current line changes, automatically release the hold
Limit Talking Duration	Once enabled, the call will automatically hang up after the set time
Duration	Call duration setting, 20–86,400 seconds
Call Timeout	1–3600 seconds; the call will be automatically disconnected if not answered within the timeout period
Ring timeout	1–3600 seconds; call will be automatically disconnected if not answered within the ringback timeout
HTTP API username	HTTP API Authentication Username
HTTP API Password	HTTP API Authentication Password
Ring Priority	Option to prioritize incoming calls or handle them normally
Reboot in Talking	Enables forced restart during a call
Enable Push XML Auth	When enabled, HTTP messages must include the user password
Tone Settings	
Enable Holding Tone	When enabled, a tone is played during call hold.
Enable Call Waiting Tone	If this feature is disabled, you will not hear the "beep" tone when a call is on hold.
Play Talking DTMF Tone	A DTMF tone will be played when the user presses the device's number keys during a call. This feature is enabled by default.
Auto Answer Tone	When enabled, a tone will play after the auto-answer feature activates.
Boot Up Tone	After the device powers on and completes system initialization, a startup tone will play to confirm that the device has successfully powered on and entered operational status
Ring Back Tone	The tone played by the A513W when calling a remote device that does

	not answer.
Busy Tone	When the other party hangs up, the device plays a hang-up prompt to notify the user that the call has ended.
Ban Outgoing Prompting Mode	When the "Outgoing Call Block" setting is enabled on the device, if a user initiates a call, the device plays a tone to inform the user that the current call is restricted.
Intercom Settings	
Enable Intercom	When the intercom system is enabled, the device will automatically answer calls by receiving the Alert-Info directive in the SIP header of the incoming call request
Enable Intercom Mute	Enable mute during intercom mode calls
Enable Intercom Tone	A tone will sound when a walkie-talkie call is received
Enable Intercom Barge	Automatically answer calls in walkie-talkie mode during an active call; if the current call is in walkie-talkie mode, reject new walkie-talkie mode calls
Response Code Settings	
Busy Return Code	Set the SIP response code when the device is busy.
Reject Response Code	Set the SIP response code when a call is rejected.

9.18 Intercom Settings >> Media Settings

The screenshot displays the Fanvil AS13W web interface. The sidebar on the left contains navigation links: System, Network, Line, Intercom Settings, Security Settings, Call List, Snap Log, Call Button, Security, Device Log, and Platform Access. The main content area is titled 'Media Settings' and includes a top navigation bar with options: Features, Media Settings (selected), Local IP Camera, Multicast, Action, Time/Date, Time Plan, Tone, and Led. The 'Media Settings' section is divided into two main parts: 'Codecs Settings' and 'Media Settings'. The 'Codecs Settings' part shows a list of disabled codecs (G.726-16, G.726-24, G.726-32, G.726-40, G.723.1, AMR, telephone-event, AMR-WB) and a list of enabled codecs (G.722, G.711U, G.711A, G.729AB, opus, ILBC). The 'Media Settings' part includes fields for Speakerphone Ring Volume (3), Speakerphone SignalTone Volume (3), Default Ring Type (1.wav), Speakerphone Volume (7), and MCAST Handfree Volume (5). An 'Advance Setting' link is also present. The bottom of the page shows the current software version (2.20.0.8) and copyright information (Fanvil Technology Co., Ltd. (C) 2026 All Rights Reserved.).

Media Settings

Advance Setting

DTMF Payload Type (96-127): 101

Hand Free Mic Gain (1-9): 3

OPUS Payload Type (96-127): 107

OPUS Sample Rate: OPUS-NB(8KHz)

ILBC Payload Type (96-127): 97

ILBC Payload Length: 20ms

Noise Reduction Mode: Default

Noise Reduction Level: Mid

Enable VAD: ☐

H.264 Payload Type (96-127): 117

Video Direction: Send Only

Rtp Detection Timeout (0-3600): 0

Disable AEC: ☐

Enable Line-in: Disable

Enable Line-out: Disable

RTP Settings

RTP Keep Alive: ☒

RTP Relay: ☐

Alert Info Ring Settings (Alert Info)

Index	Value	Line	Ring Type
Alert Info1		AUTO	Default
Alert Info2		AUTO	Default
Alert Info3		AUTO	Default
Alert Info4		AUTO	Default
Alert Info5		AUTO	Default
Alert Info6		AUTO	Default
Alert Info7		AUTO	Default
Alert Info8		AUTO	Default

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Media Settings

RTP Settings

RTP Keep Alive: ☒

RTP Relay: ☐

Alert Info Ring Settings (Alert Info)

Index	Value	Line	Ring Type
Alert Info1		AUTO	Default
Alert Info2		AUTO	Default
Alert Info3		AUTO	Default
Alert Info4		AUTO	Default
Alert Info5		AUTO	Default
Alert Info6		AUTO	Default
Alert Info7		AUTO	Default
Alert Info8		AUTO	Default

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Picture 33 - Media Settings

Table 19 - Media Settings

Parameters	Description
Codecs Settings	Select the voice codec to enable or disable: G.711A/U, G.726, G.723, G.722, G.729, ILBC, Opus, MPA
Media Settings	
Speakerphone Ring Volume	Configure preset ringtones. If no specific ringtone is set for an incoming number, the default ringtone will be used.
Speakerphone SignalTone Volume	Set the speakerphone volume; volume levels range from 1 to 9
Default Ring Type	Set the speakerphone ringtone volume (0–9)

Speakerphone Volume	Set the hands-free alert tone volume (0–9)
MCAST Handfree Volume	Set the multicast hands-free volume; volume range: 1–9
Advanced Settings	
DTMF Payload Type	Enter the DTMF payload type; the value must be between 96 and 127.
Hand Free Mic Gain	Set the hands-free MIC gain, range 1–9
Opus Payload Type	Set the Opus payload type; the range is 96–127
OPUS Sample Rate	Set the Opus sample rate
ILBC Payload Type	Set the ILBC payload type, range 96–127
ILBC Payload Length	Select ILBC Payload Length
Noise Reduction Mode	Select the noise reduction level; when configured for intelligent noise reduction, it effectively blocks out noise
Enable VAD	Enable Voice Activity Detection
Disable AEC	Disable echo cancellation
H.264 Payload Type	Set the H.264 payload type, ranging from 96 to 127; the default is 117
Video Direction	Sendonly: Establish a video call; the SDP packet in the invite packet is set to sendonly; Sendrecv: Establish a call; the SDP block in the invite packet is set to sendrecv
RTP Detection Timeout	If no RTP packets are received within the set time, the device automatically disconnects the call.
Enable Line-In	Disabled: Disables the external microphone function; the device uses only the built-in microphone for audio input.
	Talking: The device uses the external microphone for audio capture during calls (including all call types)
	Local: Allows the A330i to be connected to a computer via line-in, playing music files selected on the computer through the A330i
	Talking and Local: When a call is established, the other party will hear the audio received via the line-in
Enable Line-out	Disabled: When local playback is enabled, the device's audio is output through the hands-free speaker.
	Enable: When local playback is enabled, the device's audio is output through external speakers connected via the Line-out port.
	Line-Out & Handsfree: Audio is output simultaneously through the device's hands-free speaker and external speakers.
RTP Settings	

RTP Keep-Alive	Keep the call active; send a packet every 30 seconds after enabling
RTP Relay	Configure RTP Relay
Alert Info Ring Settings (alert-info)	
Value of notification message 1 to 10	Set the value for the incoming call ringtone type
ring type	Built-in Ringtone Type Settings

9.19 Intercom Settings >> Camera

The A513W supports two configuration modes: built-in camera and external camera. You can switch between them in [Connection Mode] > [Connection Mode Settings].

Connection Mode

Connection Mode Setting

Local

Apply

● Local Camera

When the built-in camera is selected, users can configure camera-related parameters and adjust video encoding settings.

Camera Parameter Settings

White Balance Mode	Auto Mode
Exposure Mode	Auto Mode
Exposure Time (0~10000)	0
Exposure Gain (0~1024)	0
Contrast Mode	Auto Mode
Contrast (0~100)	17
Saturation Mode	Auto Mode
Saturation (0~200)	96
Sharpness Mode	Auto Mode
Sharpness (0~1023)	6
WideDynamic	Manual Mode
Wide Dynamic Range (0~10)	0
Start IRCUT	Synchronization
Image Mode	AUTO
Brightness Mode	Auto Mode
Brightness (0~100)	10

HDR	Enable
Call Code Flow Type	Main Stream
H.264 Payload Type (96~127)	117
Enable Http Preview	Enable
HTTP Preview Resolution	1080P
Infrared Fill Light	Auto Mode

Apply

Default

Character Overlay Setting

OSD Date Display	Disable
OSD Text Display	Disable

Apply

Video Encoding Settings

H264Video Stream0

Code Stream Rate Control	VBR
Profile	Base Profile
Data Stream Frame Rate	20
Code Flow Rate	2 Mbps
Code Stream Resolution	720P
Code Stream I Frame Interval	50

H264Video Stream1

Code Stream Rate Control	VBR
Profile	Base Profile
Data Stream Frame Rate	20
Code Flow Rate	512 Kbps
Code Stream Resolution	VGA
Code Stream I Frame Interval	50

Apply

Onvif Setting

Enable Onvif	Enable
Enable Onvif Certification	Enable

Apply

RTSP Setting

Enable RTSP

Enable

Enable Rtsp Certification

Enable

RTSP UserName

admin

RTSP Password

.....

RTSP Stream

H264MainUrl

rtsp://admin:admin@172.16.45.164/h264/stream.live0

H264SubUrl

rtsp://admin:admin@172.16.45.164/h264/stream.live1

Apply

Snap

Catch Trigger Mode Input Port Trigger

Output Trigger

☐ Output 1

Input Trigger

☐ Input1 ☐ Input2

Trigger By Call Status

☐ Talking ☐ Ringing ☐ Trying

Humanoid Recognition Trigger

☐

Snapshot Save

Server

Server Address

Username

Password

Apply

Picture 34 - Local Camera Settings

Table 20 - Video Settings Parameters

Field Name	Description
Camera Parameter Settings	

White Balance Mode	Auto White Balance: The camera automatically makes the most appropriate adjustments based on the color temperature of the shooting scene and automatically compensates for the color of the light source. Lock White Balance Mode: Fixes the white balance settings; the camera will not automatically adjust based on the actual color temperature. Incandescent Mode: Compensates for the color tone of incandescent lights; suitable for use under light sources with a beige-yellow hue (light bulbs, tungsten lamps, candles), etc. Warm Light Mode: Compensates for the color tone of warm light sources, suitable for light sources with a color temperature of around 2700K. Natural Light Mode: Reproduces colors accurately under sunny daylight conditions; suitable for white balance in outdoor photography and has a wide range of applications. Fluorescent Mode: Compensates for the color tone of fluorescent lights, suitable for use under light sources such as fluorescent lamps and energy-saving lamps.
Exposure Mode	Auto Exposure Mode: The camera automatically sets parameters; no manual adjustment is required. Manual Mode: Manually set the exposure time and gain.
Exposure Time	Refers to the duration the shutter remains open. Increasing the exposure time improves the signal-to-noise ratio, resulting in a clearer image. The longer the exposure, the greater the total number of photons reaching the CCD/CMOS surface, and the brighter the captured image will be. However, if overexposed, the photo will be too bright and lose image detail; if underexposed, the photo will be too dark.
Exposure Gain	Refers to the amplification gain applied to the analog signal after double sampling; however, amplifying the image signal also amplifies noise. Gain is generally used only when the signal is weak but you do not want to increase the exposure time.
Contrast Mode	Auto Mode: The camera automatically adjusts contrast based on the environment; no manual adjustment is required. Manual Mode: Manually set the camera's contrast parameters.
Contrast	Contrast refers to the degree of light-dark contrast in an image. Increasing contrast makes bright areas brighter and dark areas darker, enhancing the contrast between light and dark.
Saturation Mode	Auto Mode: The camera automatically adjusts saturation based on the environment; no user adjustment is required Manual Mode: Manually adjust the camera's saturation settings.

Saturation	Saturation refers to color. Adjusting saturation changes the color of the image; the higher the setting, the more distorted the colors become. Adjusting saturation is only suitable for images lacking color. When saturation is set to the lowest level, the image loses its color and becomes a black-and-white image.
Sharpness Mode	Auto Mode: The camera automatically adjusts sharpness based on the environment; no manual adjustment is required Manual Mode: Manually set the camera's sharpness parameters
Sharpness	Sharpness is sometimes also called "clarity." It is a metric that reflects the clarity of the image plane and the sharpness of image edges. Increasing sharpness enhances the contrast of details on the image plane, making the image appear clearer.
Wide Dynamic	Auto Mode: The camera automatically adjusts the wide dynamic range based on the environment, requiring no manual adjustment by the operator Manual Mode: Manually set the camera's wide dynamic range parameters
Wide Dynamic Range	The range is 0–10. A value of 0 indicates that Wide Dynamic Range is disabled; the higher the value, the stronger the Wide Dynamic Range effect. Enabling Wide Dynamic Range allows the camera to capture images even under conditions of extreme contrast.
Start IRCUT	Whether to open IRCUT
Image Mode	Day (Color): The camera transmits color images during the day when there is sufficient light Night (Black and White): The camera transmits black-and-white images at night when lighting is insufficient Auto: The camera uses a light sensor to transmit color images during the day when there is sufficient light, and black-and-white images at night when there is insufficient light
Brightness Mode	Auto Mode: The camera automatically adjusts brightness based on the environment; no manual adjustment is required Manual Mode: Manually adjust the camera's brightness settings
Brightness	Set the image brightness manually, range 0–100
HDR	When enabled, the camera automatically combines multiple frames to balance highlights and shadows in the image; when disabled, the image is output in standard exposure mode.
Call Code Flow Type	Specifies whether the primary or secondary stream is used during video calls
H.264 Payload Type	Set the H.264 payload type; the range is 96–127

Enable HTTP Preview	Whether to enable HTTP preview
HTTP Preview Resolution	Set the HTTP preview resolution
Infrared Fill Light	Disable: Turn off the infrared illuminator. Enable: Turn on the infrared illuminator. Auto Mode: The camera automatically turns on the illuminator in dark environments and turns it off in bright environments based on light sensitivity
OSD Settings	
OSD Date Display	Enable/Disable date display on the camera image interface
OSD Text Display	Enable/disable text display on the camera image interface.
Video Encoding Settings	
Code Stream Rate Control	VBR: Video call will adapt to the bit rate of the opposite end, so that the video effect is better. CBR: The video call will not change according to the bit rate set by itself.
Profile	Baseline Profile: Supports I/P frames, only supports Progressive and CAVLC. Generally used for low-level or extra error-tolerant applications, such as video calls and mobile video. Main Profile: Provides I/P/B frames, supports Progressive and Interlaced, and also supports CAVLC and CABAC.
Data Stream Frame Rate	The larger the value is, the more fluent the video is, and the higher the requirement for network bandwidth is; adjustment is not recommended
Code Flow Rate	It refers to the data flow used by video files in unit time, also known as code rate or code flow rate. Generally speaking, sampling rate is the most important part of picture quality control in video coding. Generally, the unit we use is KB / s or MB / s
Code Stream Resolution	Support 2K, 1080P, 720P, 4CIF, VGA, CIF, QVGA
Code Stream I Frame Interval	The larger the value, the worse the video quality, otherwise the better the video quality; adjustment is not recommended.
ONVIF Settings	
Enable Onvif	Enable or disable the ONVIF protocol; once enabled, the device can be discovered by ONVIF-compatible recorders
Enable Onvif	Whether authentication (with username and password) is required when

Certification	using the ONVIF protocol
RTSP Settings	
Enable RTSP	Enable or disable the RTSP protocol. Once enabled, video streaming services can be provided externally via the RTSP protocol
Enable Rtsp Certification	Is authentication required when using the RTSP protocol (with username and password)?
RTSP Username	The authentication username used to access the RTSP video stream
RTSP Password	The authentication password used to access the RTSP video stream
Main Stream URL	Copy and paste the Main Stream URL into VLC Player to preview the current camera video.
Sub Stream URL	Copy and paste the sub-stream URL into VLC Player to preview the current camera video.
Snapshot	
Output Trigger	Select the output port to trigger the screenshot
Input Trigger	Select the input port to trigger the snapshot
Trigger By Call Staus	Select the call status that triggers the snapshot
Humanoid Recognition Trigger	When the human detection feature is enabled, the device will capture an image when it detects a human figure remaining in the video frame.
Snapshot Save	Configure how captured images are saved, including: "Server," "SD Card," "Server and SD Card"
Server Address	Enter the server address
Username	Enter the server's authentication username
Password	Enter the server's authentication password

● External Camera

When selecting an external camera, you can add it via the web interface. During subsequent video calls with other devices, the other party will see the live video feed from that external camera.

Ipcamera Add

Name

Username

Password

User Agent

Ip Camera Brand

IP Address

Port

URL1

URL2

Add

IP Camera List

Modify **Delete**

☐	Name	Username	User Agent	URL	Status
No Data					

Advanced Settings

Video Direction

H.264 Payload Type (96-127/Second(s))

Apply

Picture 35 - External Camera Settings

Table 21 - External Camera Configuration

Field Name	Description
External Add	
Name	Enter a custom name for the external device to distinguish between different external devices
Username / Password	The username and password for authenticating access to the external device, used to verify this device's access permissions to that external device
User Agent	Enter the user agent parameter to be included when accessing the URL
Camera Type	Select the manufacturer corresponding to your external camera. Currently supported manufacturers include Tianshitong, Xiongmai, Hikvision, Dahua, AXIS, and Digital Watchdog. If your external camera is from one of these manufacturers, enter the device's username, password, IP address, and port, and the system will automatically generate the corresponding camera access URL during setup, eliminating the need to manually configure the video stream address. If your camera is not from one of the manufacturers listed above, select "Custom" and enter the camera's full access URL directly to add it.

IP Address	Enter the IP address of the external camera
Port	Enter the port of the external camera
URL	When the camera type is set to "Custom," you can enter the camera's full access URL to add it.
Camera List	
Advanced Settings	
Video Direction	Set the video direction to Send Only, Receive Only, or Send and Receive
H.264 Payload Type	Set H.264 Payload Type

After adding an external camera, the camera's information and connection status will be displayed in the camera list below. You can select the corresponding camera and click the "Edit" or "Delete" button to modify or delete it.

9.20 Intercom Settings >> Multicast

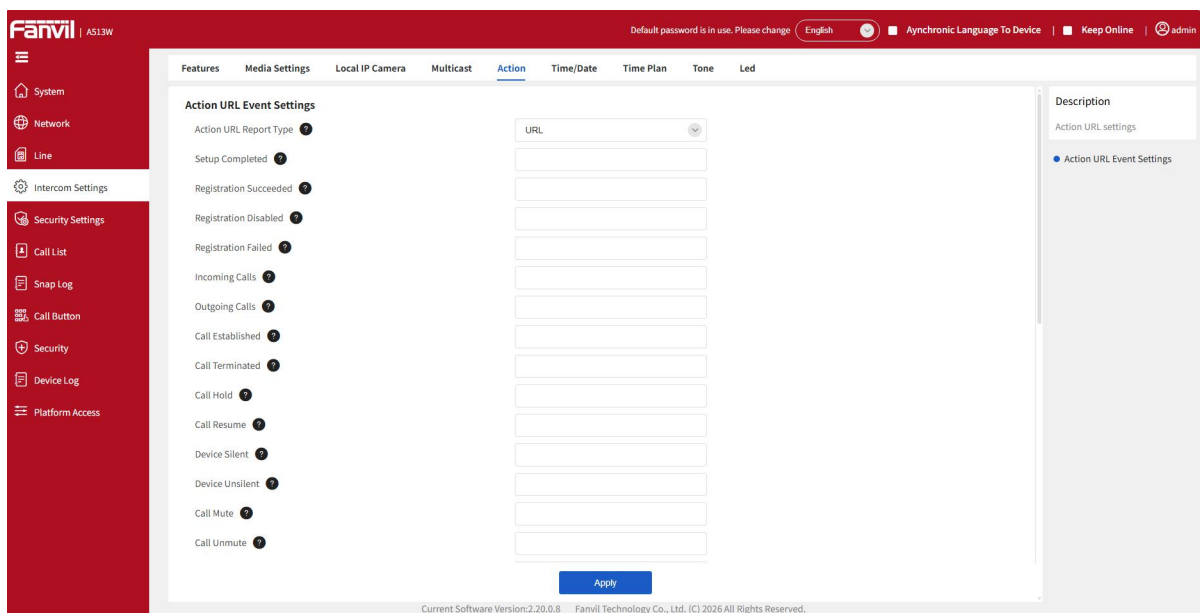
The multicast feature allows you to easily and conveniently send announcements to every member of the multicast group. By configuring the multicast button on the device, you can send a multicast RTP stream to a pre-configured multicast address. By configuring the device to listen to a multicast address, it will monitor and play the RTP stream sent to that address.

The detail for [8.2 MCAST](#).

9.21 Intercom Settings >> Action URL

Table 22 - Action URL

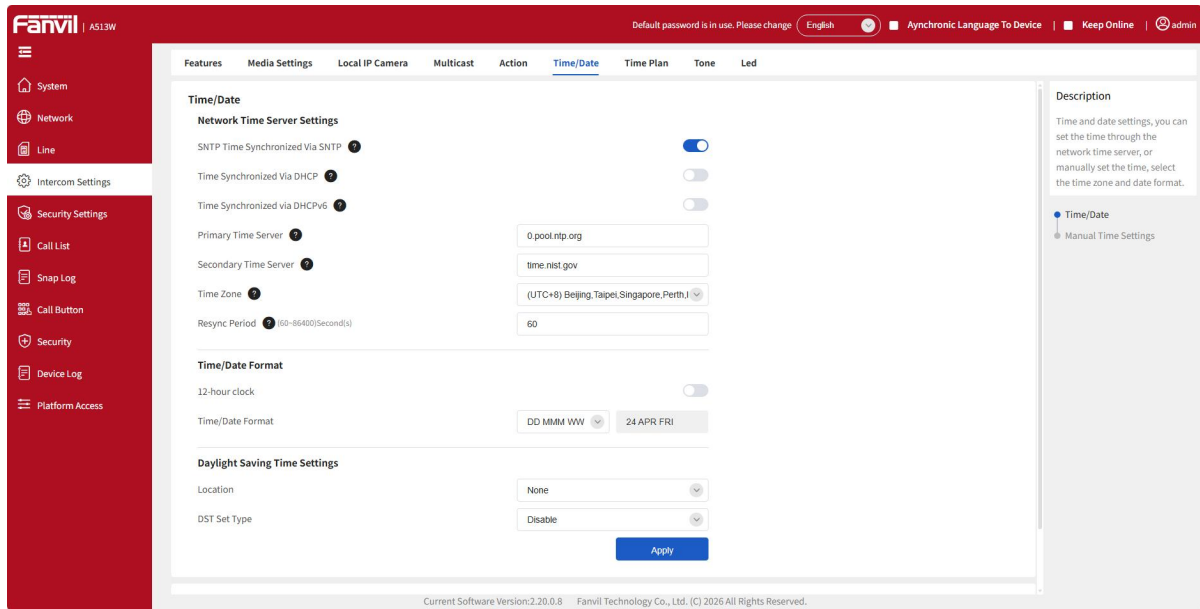
Action URL Settings
Configure the URL for reporting actions to the server. For example, enter the URL: <code>http://InternalServer/FileName.xml?</code> (Internal Server is the server's IP address; File Name is the XML filename of the action report from the storage device)



Picture 36 - Action URL

9.22 Intercom Settings >> Time /Date

Users can configure the device's time settings on this page.



Picture 37 - Time/Date

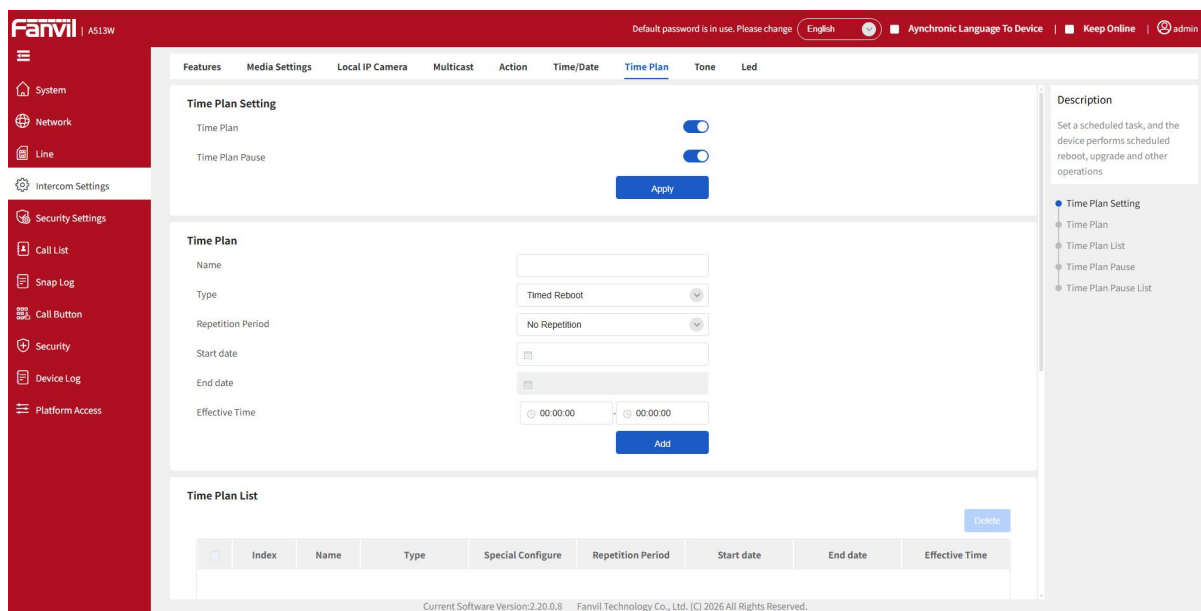
Table 23 - Time/Date

Parameter			Description
Network Time Server Settings			
Time	Synchronized	via	Enable time synchronization using the SNTP protocol.
SNTP			

Time Synchronized via DHCP	Enable time synchronization using the DHCP protocol.
Time Synchronized via DHCPV6	Enable time synchronization using the DHCPv6 protocol.
Primary Time Server	Set the primary time server address
Secondary Time Server	Set the address of the secondary time server. If the primary server is unavailable, the device will attempt to connect to the secondary time server to obtain time synchronization.
Time Zone	Select time zone
Resync Period	Resynchronize with the time server.
Time/Date Format	
12-hour clock	Set the 12-hour time display.
Time/Date Format	Select the date/time display format.
Daylight Saving Time Settings	
Location	Select your location
DST Set Type	Set DST Type
Fixed Type	Whether daylight saving time rules are based on specific dates or calculated relative to a reference date. In automatic mode, this is a read-only display.
Offset	The amount of time to advance or roll back the clock when Daylight Saving Time begins or ends
Month Start	DST Start Month
Start Day	DST Start Day
Week Start	DST start day
Hour Start	DST Start Hour
Month End	Month DST ends
Day of the week end	DST End Day
Week End	DST end day
Hour End	DST end hour
Manual time setting	Manually set the current time

9.23 Intercom Settings >> Time Plan

Users can set specific times or time periods to trigger a specific action on the device.



Picture 38 - Time Plan

Table 24 - Time Plan

Parameters	Description
Type	Timed Reboot, Timed Upgrade, Timed Echo Test, Timed Play Audio, Timed Config.
Audio path	Supports local storage and SD card Local: Select audio files uploaded to the device SD Card: After inserting an SD card, the system will automatically detect it and display the SD card option; users can select audio files from the SD card for playback
Audio Settings	Select the audio file you want to play; preview is supported; click "Preview" to play immediately
Play Mode	Choose to play once or loop within a time period
Play Type	You can choose the audio playback direction as Local, Multicast, or Local and Multicast
Repeat Cycle	No repeat: Execute once within the set time range Daily: Execute this action at the same time every day Weekly: Execute this operation during the specified time range on specific days of the week Monthly: Execute this operation during the specified time range on the specified date of each month
Effective Time	Set the time period for execution

9.24 Security Settings >> Security Settings

This interface is used to configure input and output ports. For detailed configuration options, see the table below.

Basic Settings

Ringtone Duration

(1~600)Second(s)

Input & Tamper Server Address

?

Information

Alarm_Info:Description=\$model;SIP User=\$

Apply

Input Settings

Input1

☒

Triggered By

High Level Trigger(Disconnect Trigger)

Input Duration

(0.00~3600.00)Second(s)

0.00

Trigger Behavior

☐ Send SMS

Call Button Action

None

Triggered Ringtone

None

Input2

☒

Triggered By

Low Level Trigger(Close Trigger)

Input Duration

(0.00~3600.00)Second(s)

0.00

Trigger Behavior

☐ Send SMS

Call Button Action

None

Triggered Ringtone

None

Apply

Output Settings

Enable Logs	☒
Triggered By DTMF RingTone	None
Triggered By URI Ringtone	None
Triggered By SMS Ringtone	None
Triggered By Call Button Ringtone	None
Output 1	☒
Standard Status	NC:closed
Output Duration (0~600)Second(s)	5

Output Trigger Mode

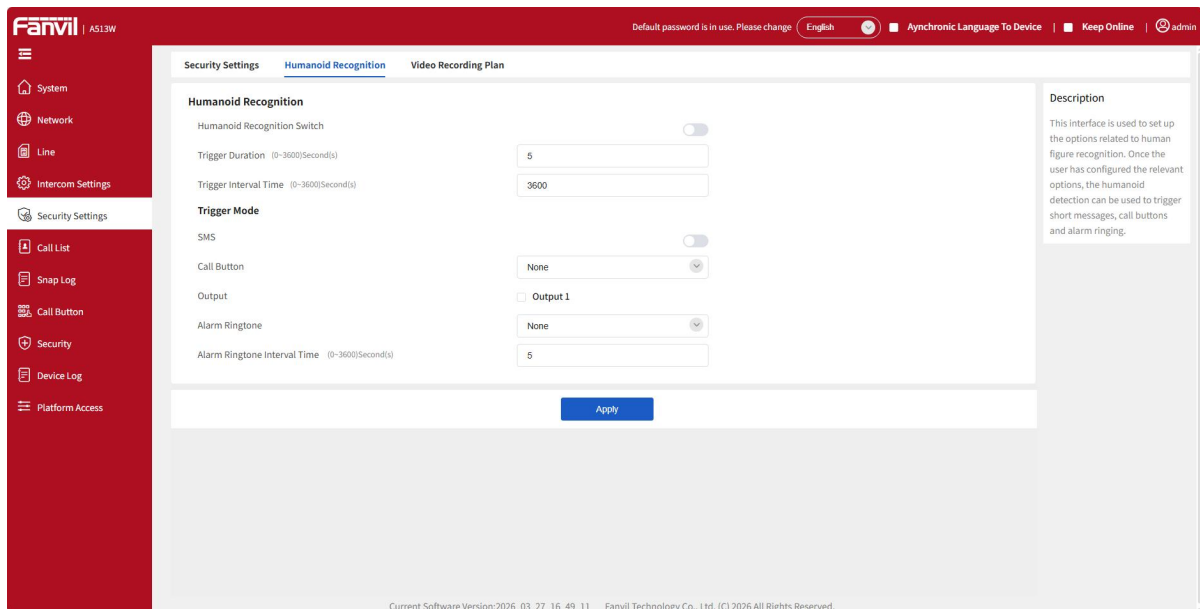
Trigger By DTMF	☒
DTMF Trigger Code	1234
DTMF Reset Code	4321
Reset By	By Duration
Trigger By Active URI	☒
Trigger Message	OUT1_SOS
Reset Message	OUT1_CLR
Trigger By SMS	☒
Trigger Message	ALERT=OUT1_SOS
Reset Message	ALERT=OUT1_CLR
Input Trigger	☒ Input1 ☐ Input2

Information	Message format when sending a short message: Alarm_Info:Description=\$model;SIP User=\$active_user;Mac=\$mac;IP=\$ip;port=\$trigger,Name=\$triggerName
Input settings	
Input	Enable or disable the input
Triggered by	When choosing the low level trigger (closed trigger), detect the input port (low level) closed trigger.
	When choosing the high level trigger (disconnect trigger), detect the input port (high level) disconnected trigger.
Input Duration	0–3600 s, the minimum duration required for the input signal to trigger.
Triggered Behavior	Send a short message to enable or disable the input port from sending messages to the server
Call Button Action	When set to Call Button 1 or Call Button 2, trigger the call button to make a call; default is none
Trigger Ringtone	Ringtone Selection Support
Output Settings	
Output	Enable or disable output
Triggered by DTMF Ringtone	Supported ringtone selection
Triggered by URI Ringtone	Support for ringtone selection
Triggered By SMS Ringtone	Ringtone selection supported
Triggered By Dsskey Ringtone	Ringtone selection supported
Standard Status	When choosing the low level trigger (NO: normally open), when meet the trigger condition, trigger the NO port disconnected.
	When choosing the high level trigger (NC: normally close), when meet the trigger condition, trigger the NC port close.
Output Duration	Duration of output port change; default value is 5 seconds
Input Trigger	When the input port meets the trigger conditions, the output port will be triggered (the port level changes, controlled by <Output Duration>).
DTMF Trigger	Receives a DTMF code sent by a remote device; if correct, the corresponding output port is triggered.
DTMF Trigger Code	During a call, the terminal device receives a DTMF code. If the code is correct, the corresponding output port is triggered. The default value is 1234.
DTMF Reset	During a call, the terminal device receives a DTMF code. If the code is

Code	correct, the corresponding output port is reset. The default value is 4321.	
Reset By	By Duration	The duration of the port's digital state change is controlled by the <Output Duration> setting
	By Call Status	Controlled by call status; after the call ends, the port returns to its default state
Trigger by Active URI	Enable or disable URI trigger. Send a command to a remote device or server; if successful, trigger/reset the corresponding output port	
Trigger by SMS	Enable or disable SMS trigger. Send the command ALERT = [command] to a remote device or server; if successful, trigger/reset the corresponding output port	
Trigger By Call Status	Trigger type based on the duration of port output, including trigger conditions. For example: If a call triggers an output port, the output port will remain active while the call is in progress. 1. Call 2. Ring 3. Call	
Call Button Action	Triggered by Call Button 1/2 or Bluetooth Buttons 1–10	
Noise Alarm Settings		
Noise Alarm	When enabled, the device will automatically trigger an alarm when the decibel level and duration of ambient noise reach the preset threshold.	
Alarm Detection Duration	Duration of sound detection, range 1–60 s, default 5 s.	
Alarm Decibel	The minimum volume at which the alarm is triggered, ranging from 30 to 85 dB; the default value is 70 dB.	
Input Duration	The time interval between the last alarm and the next alarm.	
Triggered Behavior	Send SMS: Sends an alarm notification to the specified server via SMS.	
Call Button	The shortcut key triggered simultaneously when an alert is triggered.	
Triggered Ringtone	Noise Alarm Sound Settings	

9.25 Security Settings >> Humanoid Recognition

The A513W supports human detection, suitable for various surveillance scenarios. When an intruder lingers in the camera's field of view for a certain duration, an alarm is triggered. Related configuration options are as follows:



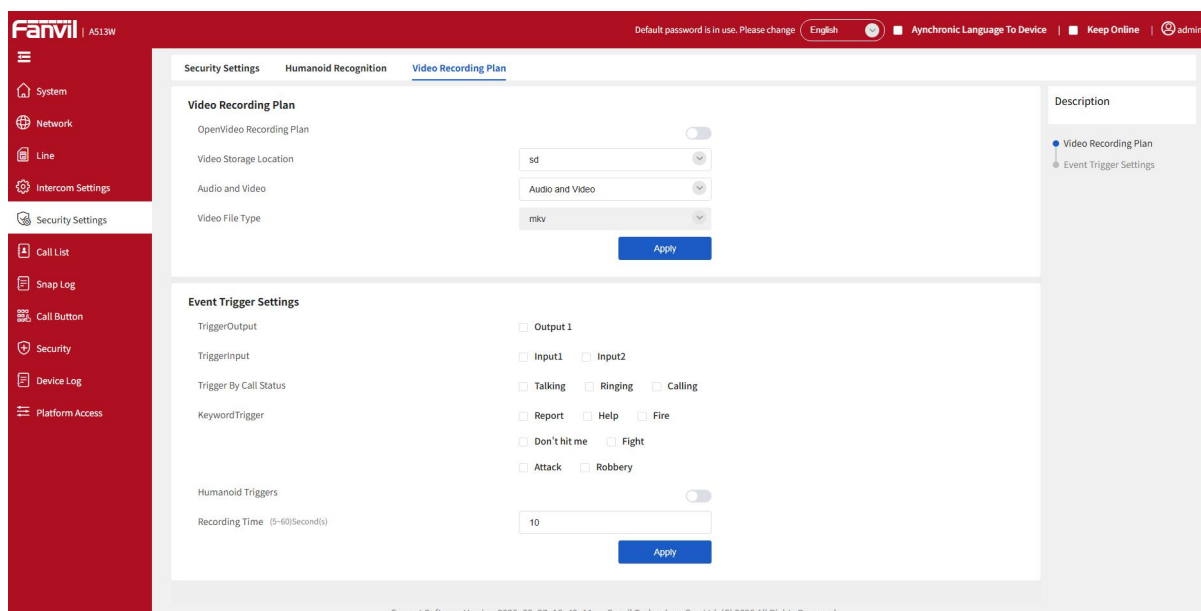
Picture 40 - Human Detection

Table 26 - Human Detection Configuration Items

Parameter	Description
Human Detection	
Humanoid Recognition Switch	Enable the Human Detection toggle to use the feature (checkbox, disabled by default).
Trigger Duration	Trigger Detection Duration: If a human figure with the same characteristics remains in the frame for xx seconds, the trigger action configured below will be triggered.
Trigger Interval Time	The interval between this trigger and the next trigger
Trigger Mode	
Trigger Short Message	Send SMS
Trigger Call Button	Select the call key to be triggered. The default is None; you can configure Dsskey1 or Dsskey2.
Trigger Output	Select the output port to trigger
Alarm Ringtone	Select the alarm tone
Alarm Ringtone Interval Time	Set the duration of the alarm tone

9.26 Security Settings >> Video Recording Plan

The A513W supports audio and video recording. Users can select event triggers as needed and flexibly configure the storage location, recording mode, and file format for recording schedules.



Picture 41 - Video Recording Plan

Table 27 - Video Recording Plan Configuration

Parameter	Description
Recording Schedule	
Open Video Recording Plan	Whether to enable the recording schedule
Recording Storage Location	Set the video storage location; videos can be saved to an SD card, a third-party server, or both
Server Address	Set Server Address
Username	Set the username for the third-party server
Password	Set third-party server password
Recording Mode	Set the recording type; you can choose to record audio only, video only, or both audio and video
Video File Type	Set the video file format, including MKV, WAV, and MP4
Event Trigger Settings	
Trigger Output	Select the output port that triggers the recording schedule
Trigger Input	Select the input port that triggers the recording schedule
Trigger By Call Status	Select the call status that triggers the recording schedule
Humanoid Triggers	Enable/Disable Human Silhouette Detection to Trigger Recording Schedule
Recording Time	5–60 seconds; set the recording duration for the recording schedule

9.27 Call List >> Call List

■ Restricted Incoming Calls

It works the same way as the block list. When a number is added to the block list, the user will no longer receive calls from that number until they remove it from the list.

Users can add specific numbers to the blacklist, or add specific prefixes to the blacklist to block calls from all numbers with that prefix.

■ Allowed Incoming Calls

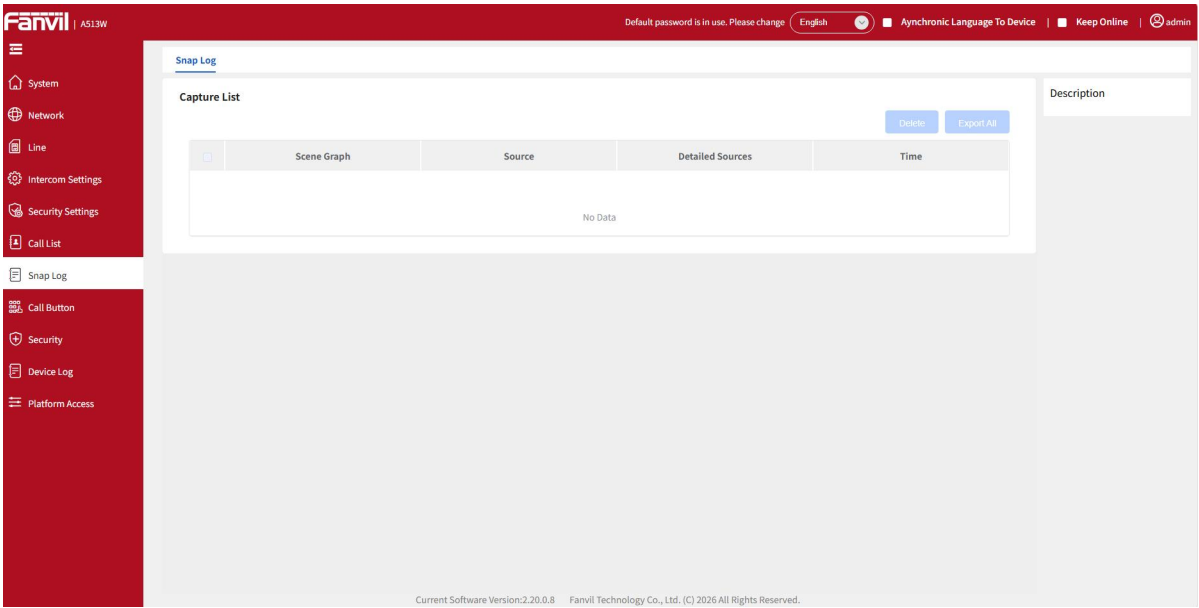
Add allowed incoming numbers. Once added, the device will only allow incoming calls from numbers on the allowed list.

■ Restricted Outgoing Calls

Add restricted outgoing numbers; once added, calls to those numbers will be blocked until the numbers are removed from the list.

9.28 Security Log >> Snap Log

This list displays captured images. If the images are stored locally (on the device or an SD card), you can view the detailed images in this list; if the images are stored on a third-party server, only the image names are displayed. Customers can locate the corresponding images on the server by matching the image names.



Picture 42 - Snap Log

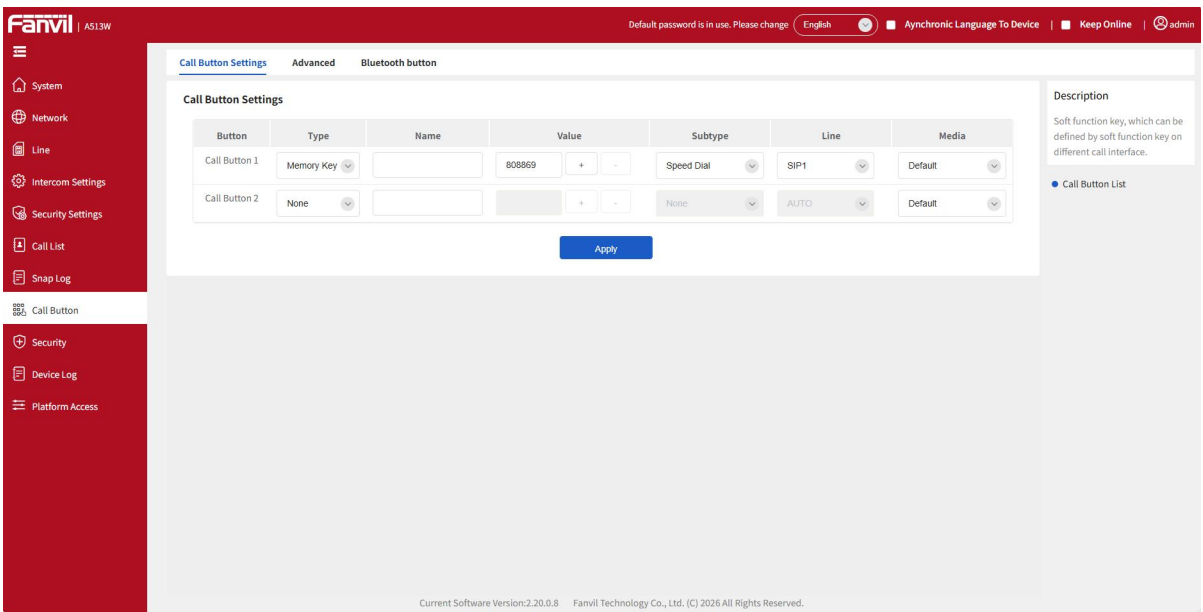
9.29 Security Logs >> Recording Logs

All video files triggered by events are saved in the video list, which supports batch deletion and export.



Picture 43 - Recording Log

9.30 Call Button >> Call Button Settings



Picture 44 - Call Button Settings

Table 28 - Call Button Parameters

Parameters	Description
Call Button settings	
Memory Key	Speed Dial: Users can directly dial preset numbers. This feature makes it convenient for customers to dial frequently used numbers Intercom: This feature allows operators or secretaries to quickly connect calls, making it widely used in office environments SOS: After configuring the SOS function, pressing the button will cause the device to call the configured number. During this call, there will be no

	audible or visual alerts on this end, making it suitable for emergency calls
Key event	The user can select a function key as a shortcut to trigger an event, including:None/Handfree/Redial/Release/Call Back/OK/Volume Up/Volume Down/Volume Circle/Audio play/Transfer Prefix
DTMF	Press during a call to send the configured DTMF tone
Mcast Paging	Configure multicast address and voice encoding. Users can press this key to initiate multicast
Action URL	Users can use a specific URL to perform basic operations on the device, such as making calls or unlocking doors
Mcast Listening	In standby mode, when the function key is pressed, the device will listen for this multicast if RTP traffic for this multicast is detected
PTT	Speed Dial: Make a call when pressed, and end the call when lifted. Intercom: Start the intercom when pressed, and end the intercom when lifted. Multicast: Initiate multicast when pressed, and end multicast when lifted

➤ Memory Key

Enter a phone number in the input field; when the call button is pressed, the device will dial the set number. This button can also be configured to use an IP address, allowing for direct IP dialing when the shortcut key is pressed.

Call Button Settings

Button	Type	Name	Value	Subtype	Line	Media
Call Button 1	Memory Key		808869 + -	Speed Dial	SIP1	Default
Call Button 2	None		+ -	None	AUTO	Default

[Apply](#)

Picture 45 - Memory Key

Table 29 - Memory Key Parameters

Type	Number	Line	Subtype	Usage
Memory Key	Enter the called party's SIP account or IP address	Line associated with the SIP account	Speed Dial	In speed dial mode, pressing a key quickly dials the configured number.
			Intercom	In intercom mode, calls are automatically answered if the SIP phone on the other end supports intercom functionality.
			SOS	Uses a silent alarm call; the device will not emit any beeps or display any indicator light changes during the call.

➤ MCAST Paging

The multicast function allows the initiator to send voice messages and other data to a configured multicast address; all devices listening to that multicast address can receive the initiator's voice messages and other data. Using the multicast function enables simple and convenient broadcasting of announcements to every member within the multicast group.

The web interface for configuring multicast via the call button is shown below:

Call Button Settings

Button	Type	Name	Value	Subtype	Line	Media
Call Button 1	MCAST Paging		+ -	G722	AUTO	Remote Only
Call Button 2	None		+ -	G722	AUTO	Default

Apply

Subtype dropdown options: G722, PCMU, PCMA, G729, G726-16, G726-24, G726-32, G726-40

Picture 46 - MCAST Paging

Table 30 - MCAST Paging Settings

Type	Number	Subtype
MCAST Paging	Set the host IP address and port number, they must be separated by a colon (The IP address range is 224.0.0.0 to 239.255.255.255, and the port number is preferably set between 1024 and 65535)	G.711A
		G.711U
		G.729AB
		G.726
		iLBC
		Opus
		G.722
		PCMU
		PCMA
		G729
		G726
		G.723

➤ PTT

PTT stands for "Push-to-Talk." Pressing the button initiates a call, and releasing it ends the call. It supports speed dialing, walkie-talkie mode, and multicast.

Call Button Settings

Button	Type	Name	Value	Subtype	Line	Media
Call Button 1	PTT		808823 + -	Intercom	AUTO	Default
Call Button 2	None		+ -	None	AUTO	Default

[Apply](#)

Picture 47 - PTT Settings

9.31 Call Button >> Advanced

Picture 48 - Programmable Keys

Table 31 - Programmable Key Parameters

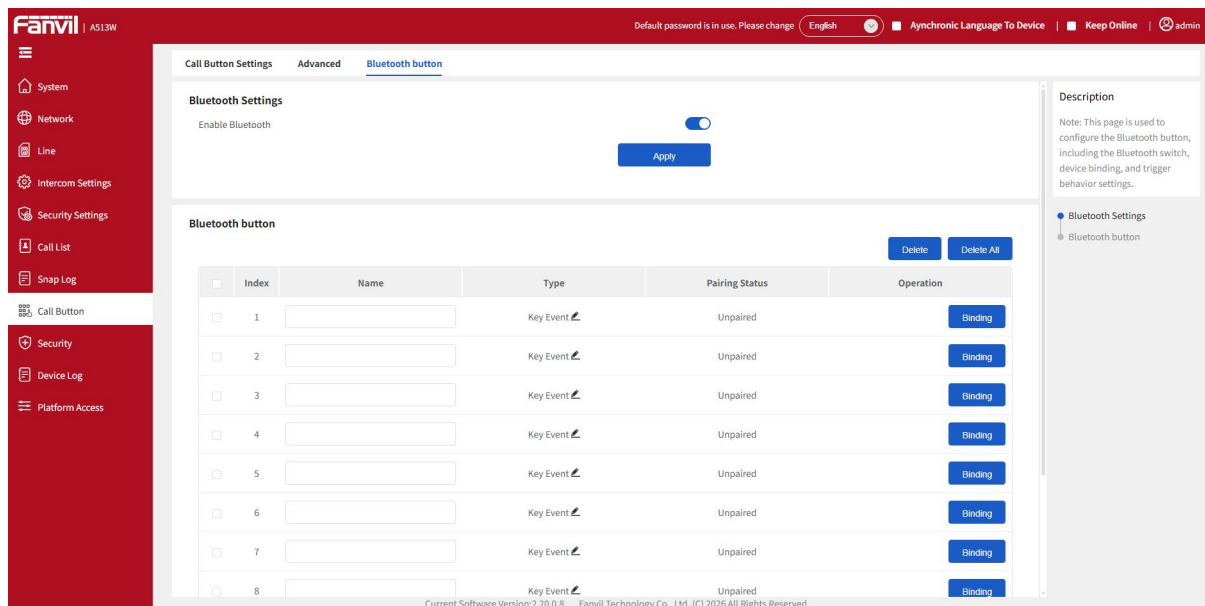
Parameters	Description
Programmable Key Settings	
Desktop	None: Nothing happens when you press the button Call Button1: When it is set to Call Button1, follow the settings of Call Button1 to make call, answer, etc. Call Button2: When it is set to Call Button2, perform operations such as calling and answering according to the setting of Call Button2 Call Button3: When it is set to Call Button3, perform operations such as calling and answering according to the setting of Call Button3
Dialer	None: Nothing happens when you press the button Call Button1: When it is set to Call Button1, follow the settings of Call Button1 to make call, answer, etc.

		Call Button2: When it is set to Call Button2, perform operations such as calling and answering according to the setting of Call Button2 Call Button3: When it is set to Call Button3, perform operations such as calling and answering according to the setting of Call Button3
Ringing		Answer: Set to answer, when there is an incoming call, if auto answer is disabled, press the speed dial key to answer the call End: set to end, when there is an incoming call, press the speed dial button to hang up the call None: Nothing happens when you press the button Call Button1: When it is set to Call Button1, follow the settings of Call Button1 to make call, answer, etc. Call Button2: When it is set to Call Button2, perform operations such as calling and answering according to the setting of Call Button2 Call Button3: When it is set to Call Button3, perform operations such as calling and answering according to the setting of Call Button3
Calling		Ending: set to end, when there is a call, press the speed dial key to hang up the call Volume up: set as volume up button, when there is a call, press the speed dial button to increase the volume Volume down: set as volume up button, when there is a call, press the speed dial button to decrease the volume None: Nothing happens when you press the button Call Button1: When it is set to Call Button1, follow the settings of Call Button1 to make call, answer, etc. Call Button2: When it is set to Call Button2, perform operations such as calling and answering according to the setting of Call Button2 Call Button3: When it is set to Call Button3, perform operations such as calling and answering according to the setting of Call Button3
Desktop Pressed	Long	None: Long press the Call Button does not respond Main menu: Long press the Call Button to enter the command line mode, see 5.2.1 Common Command Mode for details Call Button1: When it is set to Call Button1, follow the settings of Call Button1 to make call, answer, etc. Call Button2: When it is set to Call Button2, perform operations such as calling and answering according to the setting of Call Button2 Call Button3: When it is set to Call Button3, perform operations such as calling and answering according to the setting of Call Button3
Advanced Settings		

Call Switch Mode	Number 1 call number 2 mode selection. <Main/Secondary>: If the first number is not answered within the set time, the second number will be automatically switched. <Time Period>: the system time is detected automatically during a call. The device calls the first number if within the set time period; otherwise, it calls the second number. <Group Call>: When this mode is enabled, pressing the call button will trigger all configured numbers to receive calls at the same time. Once one number is answered, the others will hang up automatically.
Call Switched Time	Set number 1 to call number 2 time, default 16 seconds
First Number Start Time	The start time of the time period when the <Time Period> mode is defined. Default "06:00"
First Number End Time	The end time of the time period when the <Time Period> mode is defined. Default "18:00"

9.32 Call Button >> Bluetooth Button

This interface is used to configure Bluetooth buttons, including Bluetooth on/off, device pairing, and trigger behavior settings.



Picture 49 - Bluetooth Buttons

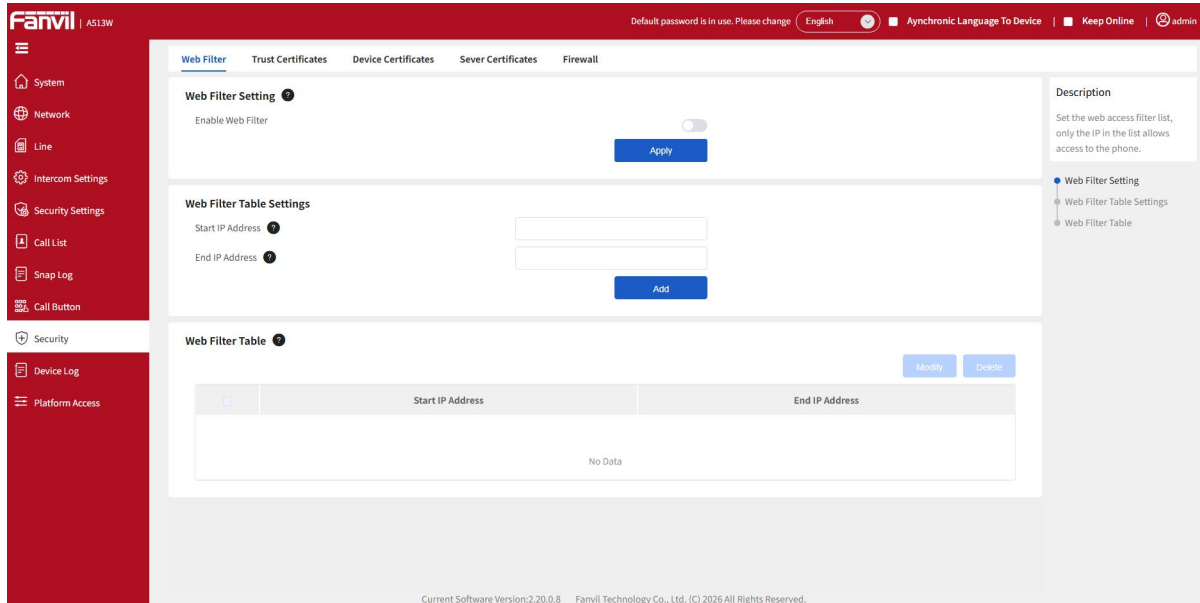
Table 32 - Bluetooth Button Parameters

Parameter	Description
Bluetooth Settings	

Enable Bluetooth	Used to enable the Bluetooth button function.	
Bluetooth Button		
Name	The name reported by the Bluetooth button; can be modified on the device.	
Type	Memory Key	Speed Dial: Users can directly dial preset numbers. This feature makes it convenient for customers to call frequently dialed numbers SOS: After configuring the SOS function, pressing the button will cause the device to call the configured number. During this call, there will be no audible or visual alerts on the device, making it suitable for emergency calls
	Key event	End: When set to "End," pressing the Bluetooth button during an incoming call will hang up the call Answer: When set to "Answer," pressing the Bluetooth button during an incoming call will answer the call if auto-answer is not enabled
	Broadcast	Configure the multicast address and audio codec. Pressing this button initiates a multicast.
	Action URL	Users can use specific URLs to perform basic operations on the device, such as making calls or opening doors
Pairing Status	Not Paired: The Bluetooth button has not yet been paired with this device.	
	Connected: The Bluetooth button has been successfully paired and has established a Bluetooth connection with this device; communication is functioning normally.	
	Disconnected: The device has a pairing history, but the Bluetooth connection is currently interrupted (e.g., due to excessive distance or the device being turned off).	
Operation	Binding: Used to connect the device for the first time. After tapping, this device will search for and establish a pairing relationship with the Bluetooth button.	
	Disconnect: When the device is in the "Connected" state, tapping this button will actively terminate the current Bluetooth connection, but will not remove the pairing.	
	Connect: When the device is in the "Disconnected" state, tapping this button will re-establish the Bluetooth connection.	

9.33 Security >> Web Filter

Users can configure the device to allow access only from machines with IP addresses within a specific network segment.



Picture 50 - Web Filter

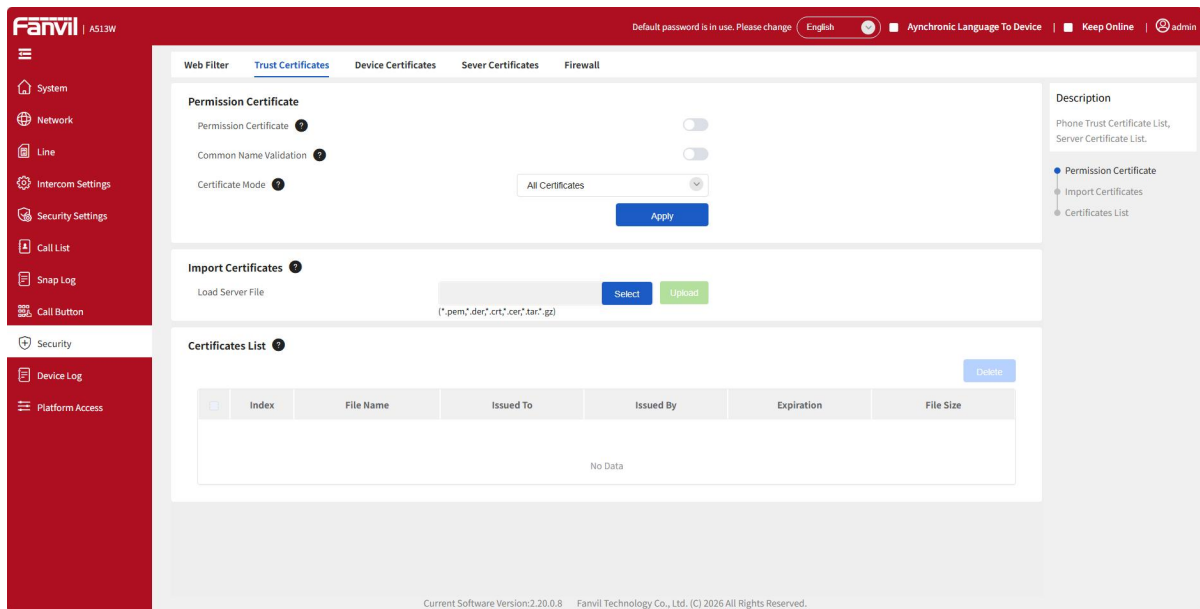
Add and remove allowed IP subnets; enter the starting IP address in the "Start Address" field and the ending IP address in the "End Address" field, then click **[Add]** to successfully add the subnet. You can configure a single large subnet or split it into multiple subnets. To remove a subnet, select the starting IP address of the subnet you wish to remove from the list, then click **[Delete]** to apply the changes.

Enable Web Filtering: Configure whether to enable or disable web access filtering; click the **[Apply]** button to apply the changes

Note: If the device you are accessing is on the same network segment as the device in question, do not configure the web filtering segment to be outside your own network segment; otherwise, you will be unable to log in to the web interface.

9.34 Security >> Trust Certificates

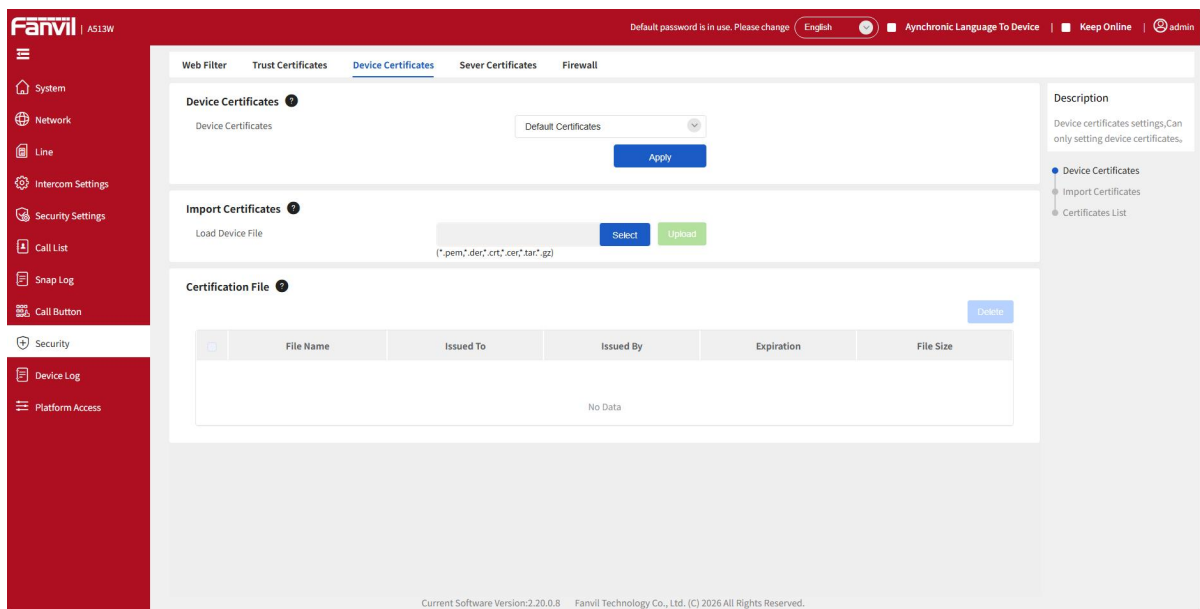
You can upload and delete uploaded trust certificates.



Picture 51 - Trust Certificates

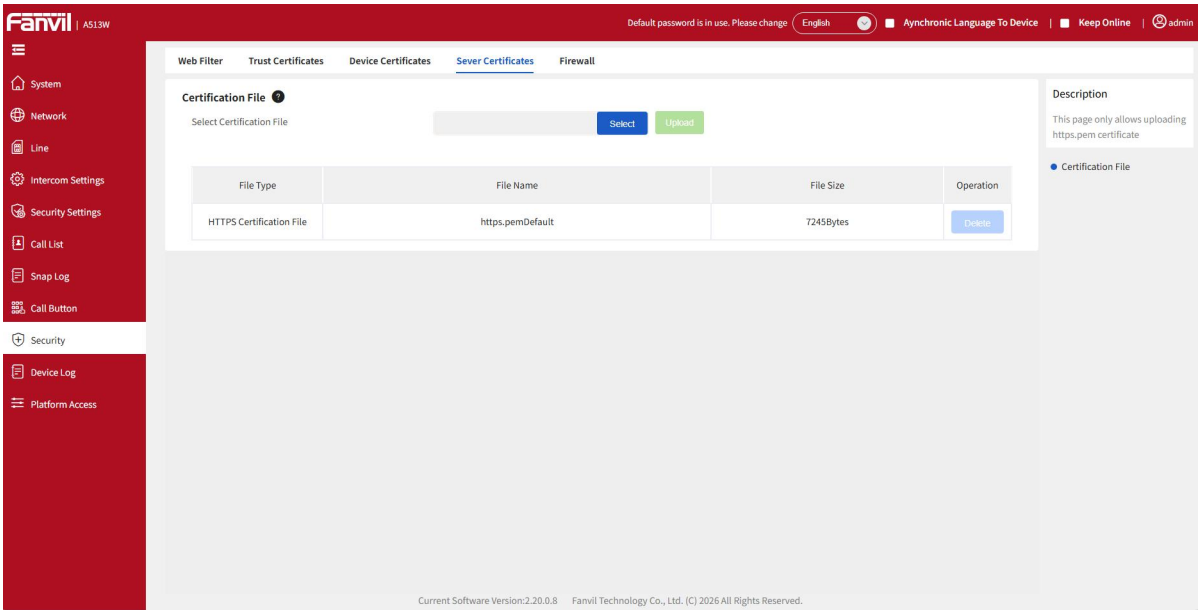
9.35 Security >> Device Certificates

Select the default certificate or the custom certificate as the device certificate.
You can upload and delete uploaded certificates.



Picture 52 - Device Certificates

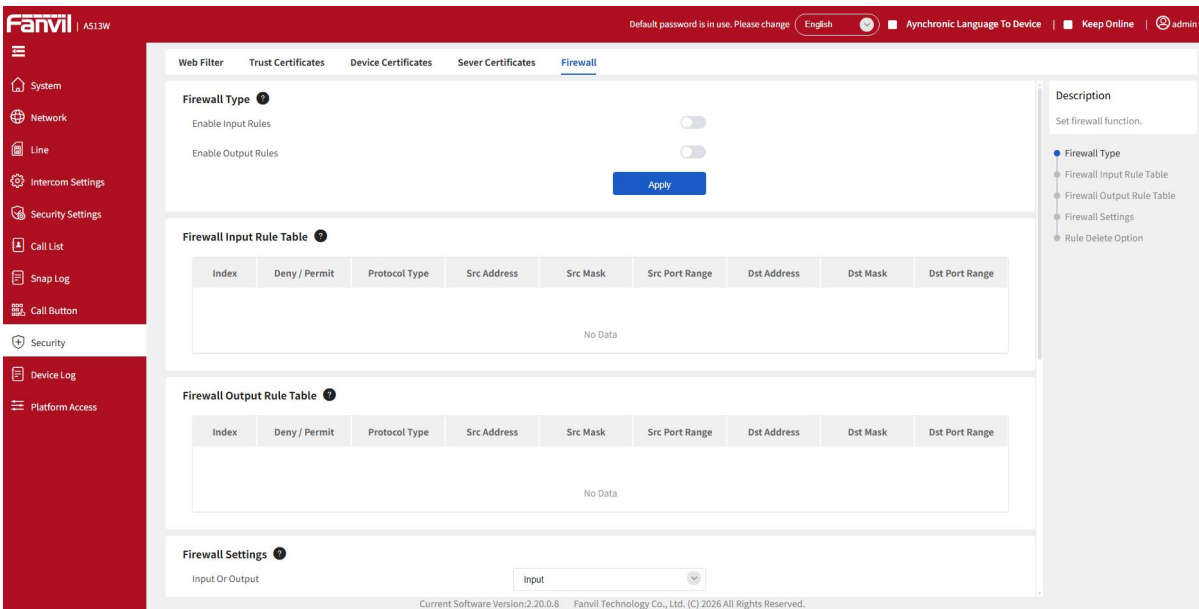
9.36 Security >> Server Certificates



Picture 53 - Server Certificate

This page allows uploading https.pem certificate.

9.37 Security >> Firewall



Picture 54 - Firewall

Through this page, you can set whether to enable the input and output firewalls, and at the same time, you can set the input and output rules of the firewall. Use these settings to prevent malicious network access, or restrict internal users from accessing some resources of the

external network, and improve safety.

The firewall rule setting is a simple firewall module. This function supports two kinds of rules: input rules and output rules. Each rule will be assigned a serial number, and a maximum of 10 each rule can be set.

Taking into account the complexity of firewall settings, the following will illustrate with an example:

Table 33 - Web Firewall

parameter	Description
Enable Input Rules	whether enable Input Rules
Enable Output Rules	Whether enable Output Rules
input/output	Select the current rule as an input or output rule
Deny/permit	Choose the current rule is deny or allowed;
protocol	There are four types of protocols: TCP, UDP, ICMP。
Port range	Port range
Src Address	The source address can be the host address, network address, or all addresses 0.0.0.0; it can also be a network address similar to *.*.*.0, such as 192.168.1.0.
Dst Mask	The destination address can be a specific IP address or all addresses 0.0.0.0; it can also be a network address similar to *.*.*.0, such as 192.168.1.0.
Src Port Range	It is the source address mask. When it is configured as 255.255.255.255, it means it is a specific host. When it is set as a subnet mask of type 255.255.255.0, it means that the filter is a network segment;
Dst Port Range	It is the destination address mask. When it is configured as 255.255.255.255, it means it is a specific host. When it is set as a subnet mask of 255.255.255.0 type, it means that a network segment is filtered;

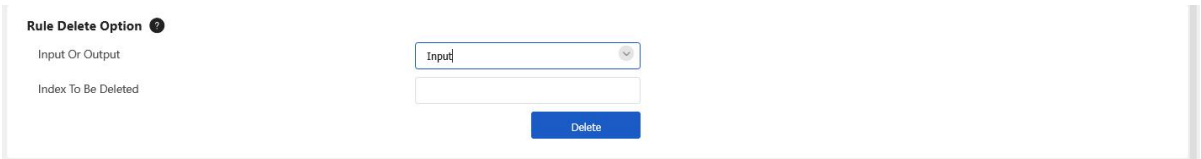
After setting, click [Add], a new item will be added to the firewall output rules, as shown in the figure below:

Firewall Input Rule Table ①								
Index	Deny / Permit	Protocol Type	Src Address	Src Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range
1	deny	udp	172.16.37.1	255.255.255.0	0-65535	172.16.37.255	255.255.255.0	0-65535

Firewall Output Rule Table ②								
Index	Deny / Permit	Protocol Type	Src Address	Src Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range
1	deny	udp	172.16.37.1	255.255.255.0	0-65535	172.16.37.255	255.255.255.0	0-65535

Picture 55 - Firewall Rule List

In this way, when the device runs: ping 192.168.1.118, it will not be able to send data packets to 192.168.1.118 because of the prohibition of the output rule. But ping other IPs in the 192.168.1.0 network segment can still receive the response packets from the destination host normally.

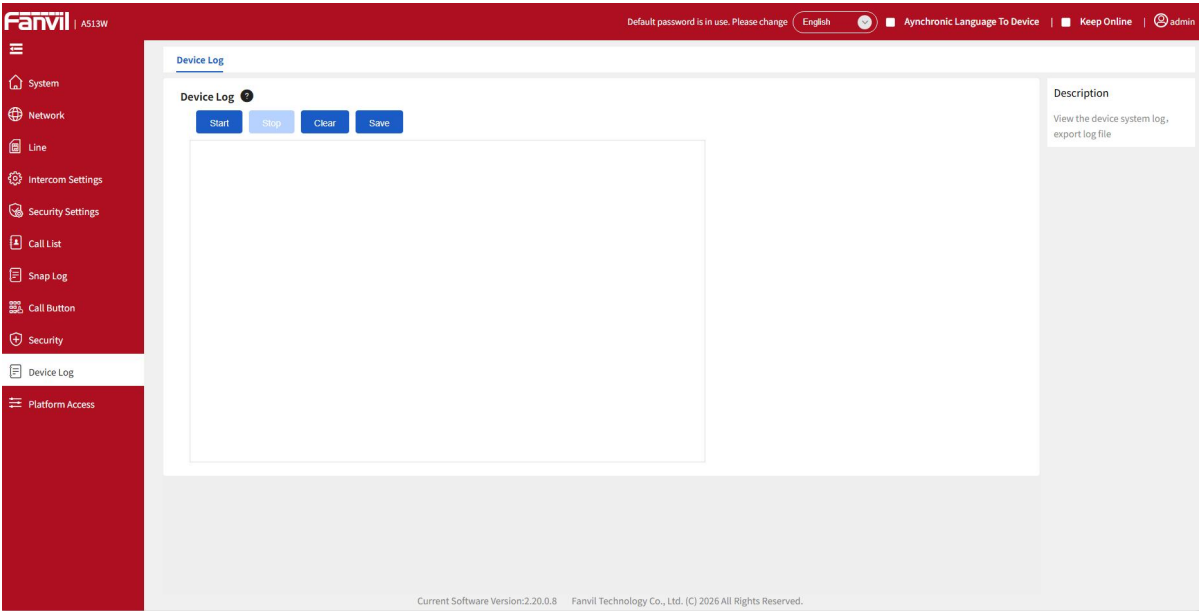


Picture 56 - Delete Firewall Rules

Select the list you want to delete and click [Delete] to delete the selected list.

9.38 Device Log

You can crawl the device log, when you encounter unusual problems, please send the device log to the technical staff for positioning problem.For more detail [10.5 Get Device Log](#)。



Picture 57 - Device Log

10. Trouble Shooting

When the device is not working properly, users can try the following methods to restore the device to normal operation or collect relevant information to send a problem report to the technical support mailbox.

10.1 Get Device System Information

Users can obtain information through the **[System]** >> **[Information]** option on the device webpage. The following information will be provided:

Device information (model, software and hardware version) and Internet Information etc.

10.2 Reboot Device

User can restart the device through the webpage, click **[System]** >> **[Reboot Device]** and click **[Reboot]** button, or directly unplug the power to restart the device.

10.3 Device Factory Reset

Restoring the factory settings will delete all configurations, database and configuration files on the device and the device will be restored to factory default state.

To restore the factory settings, please go to **[System]** >> **[Configurations]** >> **[Reset Devices]** page, and click **[Reset]** >> **[Confirm]** button, the device will return to the factory default state.

10.4 Network Packets Capture

In order to obtain the data packet of the device, the user needs to log in to the webpage of the device, open the webpage **[System]** >> **[Tools]**, and click the **[Start]** option in the "LAN Packet Capture". A message will pop up asking the user to save the captured file. At this time, the user can perform related operations, such as starting/deactivating the line or making a call, and clicking the **[Stop]** button on the webpage after completion. Network packets during the device are saved in a file. Users can analyze the packet or send it to the Fanvil technical support mailbox.

10.5 Get Device Log

Log information is helpful when encountering abnormal problems. In order to obtain the log information of the device, the user can log on to the device web page, open the web page [Device Log], click the "Start" button, follow the steps of the problem until the problem appears, and then click the "Stop" button, "Save" to the local for analysis or send the log to the technician to locate the problem.

10.6 Common Trouble Cases

Table 34 - Trouble Cases

Trouble Case	Solution
Device could not boot up	1. The device is powered by external power supply via power adapter or POE switch. Please use standard power adapter provided or POE switch met with the specification requirements and check if device is well connected to power source. 2. If the device enters "POST mode" (the Call LED and Door LED slow flashing), the device system is damaged. Please contact your location technical support to help you restore your equipment system.
Device could not register to a service provider	1. Please check if the device is connected to the network. 2. If the network connection is good, please check your line configuration again. If all configurations are correct, contact your service provider for support, or follow the instructions in "10.4 Network Data Capture" to obtain a registered network packet and send it to the Support Email to help analyze the issue.