

W712 User Manual



# User Manual W712

Software Version: 2.12.0 Release Date: 2023/2/3

### W712 User Manual

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# 3 Safety Instruction

### 3.1 Safety Instruction

Please read the following safety notices before installing or using this unit. They are crucial for the safe and reliable operation of the device.

- Please use the external power supply that is included in the package. Other power supply may cause damage to the device and affect the behavior or induce noise.
- Before using the external power supply in the package, please check the home power voltage. Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, do not use it because it may cause fire or electric shock.
- Do not drop, knock or shake the device. Rough handling can break internal circuit boards.
- This device is designed for indoor use. Do not install the device in places where there is direct sunlight. Also do not put the device on carpets or cushions. It may cause fire or breakdown.
- Avoid exposure the device to high temperature or below 0°C or high humidity.
- Avoid wetting the unit with any liquid.
- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug, it may cause an electric shock.
- Do not install this device in an ill-ventilated place. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

### 3.2 Precautions

The equipment supports one digital channel or analog channel, but cannot be mixed. When the gateway is set as a digital channel, please use the digital interphone to call. When the gateway is set as an analog channel, please use the analog interphone to call. If one party is set as a digital channel, and the other party is set as an analog channel (no sub-tone code status), forced mixed use at the same frequency, the phone end and the interphone end may have use problems.

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# 3.3 FCC

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

(1) this device may not cause harmful interference.

(2) this device must accept any interference received, including interference that may cause undesired operation.

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## 4 Overview

W712 is a RoIP intercom gateway developed specifically for the needs of industrial users. It supports the interconnection between traditional analog/digital intercom and SIP industry products. Audio intercom is realized by connecting analog/digital intercom and SIP products. It has strong penetration and can adapt to various environments such as communities, buildings, warehouses, and parks, facilitating rapid deployment of devices. And the equipment size is small, suitable for all kinds of integration of DIY applications.

In order to help some users who are interested to read every detail of the product, this user manual is provided as a user's reference guide. Stil, the document might not be up to date with the newly release software, so please kindly download updated user manual from Fanvil website , or contact with Fanvil support if you have any question using W611W.

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# 5 Desktop Installation

### 5.1 Use POE or external Power Adapter

W712 supports two power supply modes, power supply from external power adapter or over Ethernet (POE) complied switch.

POE power supply saves the space and cost of providing the device additional power outlet. With a POE switch, the device can be powered through a single Ethernet cable which is also used for data transmission. By attaching UPS system to POE switch, the device can keep working at power outage just like traditional PSTN teledevice which is powered by the teledevice line.

For users who do not have POE equipment, the traditional power adaptor should be used. If the device is connected to both POE switch and external power adapter, W712 will get power supply from POE switch in priority, and change to external power adapter once the POE power supply fails.

Please use the power adapter and the POE switch met the specifications to ensure the device work properly.

## 5.2 Replacement battery

### 5.2.1 LED status

Туре	LED	status
POWER IED	Normally on	Turn on power
SIP	Normally on	Register successfully
	Fast flashing	In the call
Bicolor	Red normally on	Emitting status
	Green normally on	Receiving status
Bicolor/SIP	Fast flash at the same	Douver starting
	time	Power starting

#### Table 1 - Button and LED status

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## 6 Introduction to the User

# 6.1 Interface description



Picture 1 - Interface display

### Table 2 - Interface Description

Number	Name	Description		
1	External antenna interface	Transmit and receive signals		
2	Grounding screw interface	Grounding protection device to prevent leakage		
3	Power interface	12V/1.5A input, pay attention to internal positive and external negative		
4	USB interface	External USB flash disk can be connected, up to 128G		
5	TFcard interface	External USB flash disk can be connected, up to 128G		
6/7	Ethernet WAN/LAN interface	Standard RJ45 interface, 10/100M adaptive, recommended to use Category 5 or super Category 5 network cable		

# 6.2 Installation instructions

### 6.2.1 Installation

### 1. Voltage check

Check whether the voltage of DC power or external power supply is within the working voltage range of this

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### product (12V/2A)

2. Product inspection

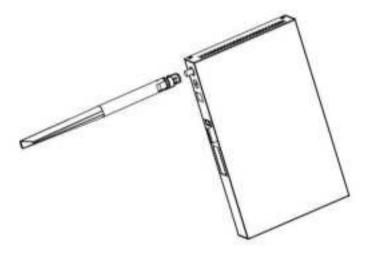
After the power is turned on, check whether the product runs normally by observing the status of all indicators on the front panel. Please refer to "Basic Functional Operation".

3. Accessories installation

When this device is not enabled, first of all, it is necessary to install the supporting narrow belt antennas, power adapter, and connected to WAN network cable.

4. Install antenna

Insert a threaded end with a thread into a narrowband connector and then tighten.



Picture 2 -Install antenna

5. Install network cable

Insert the network cable into the WAN mesh (Ethernet) and support POE power supply (802.3AT).



Picture 3 - Install network cable

6. Install power adapter

Insert the connection head of the power adapter wire into the 12V power connector of the device.

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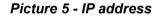
Picture 4 - Install power adapter

### 6.2.2 Device IP address

Open the web page and enter http://download.fanvil.com/tool/iDoordeviceNetworkScanner.exe to download and install the IP scanning tool.

Open the IP scanning tool, click the refresh button, search for the device and find the corresponding IP address.

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## 6.3 Web Management

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/ and you can see the login interface of the web page management.

Fanvil LINXVIL	W712 User Manual	
	User: Password: Language: English V 2	

Picture 6 - WEB Login

The username and password should be correct to log in to the web page. **The default username and password are "admin"**. For the specific details of the operation of the web page, please refer to <u>9 Web</u> <u>Configurations</u>

### 6.4 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 device, 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.

• WEB interface: After login into the device page, enter [Line] >> [SIP] and select SIP1/SIP2 for configuration, click apply to complete registration after configuration, as shown below:



Picture 7 - Web SIP registration

### 6.5 Channel configuration

Setting requires configuration channel information to provide intercom services. If you want to talk to the intercom, set the transmitting and receiving frequency to the same as the intercom. Click Edit to edit the unique parameters of the digital channel/analog channel.

Digital channel settings are set up in intercom after the color code, and only when the transmission and receiving color code can be transmitted. The analog channel configuration can also talk normally after the Asian code is configured; the intercom that does not match the Asian sound cannot speak. The frequency can be set for any value within the scope of the state regulations.

The power level determines the scope of launch. On the uninteresting urban road, the maximum range of 4W is 3 kilometers and the maximum range of 0.5W is 1.2 kilometers. Customers can choose power according to the distance.

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Picture 9 - Digital channel parameters

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Picture 10 - Analog channel parameters

## 6.6 Call configuration

If you want to use the intercom to call the phone directly for calling, you need to configure the number of intercom. Configure SIP number or multicast.

ntercom Transfer Settings		
Transfer SIP Number:		
Intercom Call SIP Timeout:	2	(1~3600)second(s)
Call Detection		
Voice Silence Check:	1000	(500~120000)millisecond
VAD Accurcy:	500	(100~5000)millisecond
Voice Prompt		
Answer Prompt:		

Picture 11 - Channel configuration

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## 6.7 Maintenance instruction

To ensure stable operation of the device, it is recommended to perform a scheduled restart of the device as follows:

1. Enter 【Phone Settings】 - 【Time Plan】

2. Select the type as scheduled restart, the recurrence period as monthly, and select a certain day and effective time to add.

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Picture 12 - Time Plan

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## 7 Basic Function

### 7.1 Forward the call side call to the intercom side

When there is a phone call, the device is automatically answered by default and does not need to configure the user. When the user is configured on the webpage, the channel related parameters are consistent with the intercom. When the user speaks on the phone, the gateway automatically forwards the voice on the side of the phone to the intercom side side to the side of the intercom side side.

When there is a multicast, when the user speaks, the gateway will automatically forward the voice on the side of the phone to the side of the intercom.

**Note:** When the user uses a multicast to the gateway on the side of the phone, the transmission needs to be manually ended immediately after the speech, otherwise it will affect the gateway to transmit the intercom to the phone

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	Internet Gal Proright	5.0	

Picture 13 - Web Setting Gateway Channel

### 7.2 Forward the intercom side to the call side

There are two cases of the gateway to the side of the interpretation to the side of the phone.

### When the phone actively initiates the call:

Users do not need to set up the intercom's call number on the intercom. Before the call is not over, the user presses the PTT speech on the side of the intercom directly to initiate the call before the call is over. machine **When the intercom is initiated to initiate a call:** 

Users need to set up the intercom's call number on the [intercom settings] >> [call and VAD detection function]. After setting, the user presses the PTT to speak on the intercom side to be forwarded to the corresponding number to set the corresponding number.

	W712 User Manual	
com Call Settings		
Intercom Transfer Settings		
Transfer SIP Number:		
Intercom Call SIP Timeout:	2 (1	~3600)second(s)
Call Detection		
Voice Silence Check:	1000	(500~120000)millisecond
VAD Accurcy:	500	(100~5000)millisecond
Voice Prompt		
Answer Prompt:	2	
Intercom Call Prompt:		
	Apply	

Picture 14 - Web setting transfer number

### 7.3 Tone

When the user uses the phone side to initiate a call actively, a beep can be heard when connecting the gateway to indicate that it is connected, and the user can start talking

When the user continues to establish a call on the phone side, when the interphone connects or releases PTT, it will send a beep to the phone end to indicate that the interphone end has started or ended the call

	W712 User Manual	
itercom Call Settings		
Intercom Transfer Settings		
Transfer SIP Number:		
Intercom Call SIP Timeout:	2 (1	~3600)second(s)
Call Detection		
Voice Silence Check:	1000	(500~120000)millisecond
VAD Accurcy:	500	(100~5000)millisecond
Voice Prompt		
Answer Prompt:		
Intercom Call Prompt:	0	



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## 8 Advance Function

### 8.1 Record

After inserting a U disk or TF card, the device supports recording operations during call. At the same time, the web page displays the available capacity and the total capacity of the U disk or TF card.

You must first start the recording on the phone web [Application] >> [Recording Management] to set up voice coding. All calls reposted by the gateway will be recorded. The specific web is as follows:

Enable Record: Voice Codec:	PCMU •	
Auto Cover Older Recordings:	0	
	Apply	
ording List		
Index	File Name	File Size
		Delete

### Picture 16 - recording settings Page

### 8.2 MCAST

This feature allows user to make some kind of broadcast call to people who are in multicast group. User can configure a multicast DSS Key on the device, which allows user to send a Real Time Transport Protocol (RTP) stream to the pre-configured multicast address without involving SIP signaling. You can also configure the device to receive an RTP stream from pre-configured multicast listening address without involving SIP signaling. You can specify up to 10 multicast listening addresses.

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Picture 17 - Multicast Settings Page

### Table 3 - MCAST Parameters on Web

Parameters	Description
Name	Listened multicast server name
Host:port	Listened multicast server's multicast IP address and port.

#### **Multicast:**

- Go to web page of [Intercom Settings] >> [Transfer Number] Set the programming address
- Click Apply.
- Set up the name, host and port of the receiving multicast on the web page of [Phone Settings] >>
  [MCAST].
- Press the PTT key of the intercom
- Receive end will receive multicast call and play multicast automatically. The receiver will receive a multicast and automatically play the multicast

### 8.3 SIP Hotspot

SIP hotspot is a simple but practical function. With simple configurations, the SIP hotspot function can implement group ringing. SIP accounts can be expanded.

The users can set functions as a SIP hotspot and other devices set (B and C) function as SIP hotspot clients. When somebody calls device set A, device sets A, B, and C all ring at the same time. When any device set answers the call, other device sets stop ringing. The call can be answered by only one device set.

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When B or C initiates a call, the SIP number registered by device set A is the calling number.

To set a SIP hotspot, register at least one SIP account.

Line Status:	Registered		Activate:	0 0	
Usemaine:	1256	0	Authentication User:		
Display name:		0	Authentication Password:		1
Realm:		0	Server Name:	-	•
SIP Server 1:			SIP Server 2:		
Server Address:	172 16 1.2	0	Server Address:		
Server Port:	5080	0	Server Port:	5060	
Transport Protocol:	UDP 👻 🕘		Transport Protocol:	UDP 👻 🔮	
Registration Expiration:	3600 second(s)	0	Registration Expiration:	3600 second(s)	0
Proxy Server Address:		0	Backup Proxy Server Address:	1	1
Proxy Server Port:	5060		Backup Proxy Server Port:	5060	12.2

### Picture 18 - Register SIP account

### Table 4 - SIP hotspot Parameters

Parameters	Description			
	If your device is set to "SIP hotspot server", Device Table will display as Client			
Device Table	Device Table which connected to your device.			
	If your device is set to "SIP hotspot client", Device Table will display as Server			
	Device Table which you can connect to.			
SIP hotspot				
Enable hotspot	Set it to be Enable to enable the feature.			
Mode	Choose hotspot, device will be a "SIP hotspot server"; Choose Client, device will be			
Mode	a "SIP hotspot Client"			
	Either the Multicast or Broadcast is ok. If you want to limit the broadcast packets,			
Monitor Type	you'd better use broadcast. But, if client choose broadcast, the SIP hotspot device			
	must be broadcast.			
Monitor Address	The address of broadcast, hotspot server and hotspot client must be same.			
Remote Port	Type the Remote port number.			

Configure SIP hotspot server:

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SIP Hotspot Settings			
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Mode:	(Hutspirt 🗸		
Monitor Type:	Broadcast ~		0
Monitor Address:	224.0.2.0		0
Local Port:	16360		0
Name:	StP Hotspot		0
Ring Mode:	AE 👻		
ine Settings			

Picture 19 - SIP hotspot server configuration

Configure SIP hotspot client:

To set as a SIP hotspot client, no SIP account needs to be set. The device set will automatically obtain and configure a SIP account. On the SIP Hotspot tab page, set Mode to Client. The values of other options are the same as those of the hotspot.

IP	Server name		Online Status	Connection Status	Alas	tine	
172.16.7.160	SIP Hotspot		OnLine	Disconnected			Connect
172.16.7.150	SIP Hotspot		OnLine	Connected	1	1	Disconnect
SIP Hotspot Settings							
Enable Hotspot:		Enabled V					0
Mode:		Clent 👻					0
Monitor Type:		Broadcast 4					0
Monitor Address:		224.0.2.0					
Local Port:		\$6380	1				0
Name:		SIP Hotsport					

### Picture 20 - SIP hotspot client configuration

As the hotspot server, the default extension number is 0. When the device is used as the client, the extension number is increased from 1, you can view the extension number through the [**SIP Hotspot**] page. Call extension number:

• The hotspot server and the client can dial each other through the extension number.



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• For example, extension 1 dials extension 0.

#### W712 User Manual

# 9 Web Configurations

### 9.1 Web Page Authentication

The user can log into the web page of the device to manage the user's device information and operate the device. Users must provide the correct user name and password to log in.

### 9.2 System >> Information

User can get the system information of the device in this page including,

- Model
- Hardware Version
- Software Version
- Uptime
- Memory information
- System time

And summarization of network status,

- Network Mode
- Ethernet MAC
- Wi-Fi MAC
- Ethernet IP
- Wi-Fi IP
- Subnet Mask
- Default Gateway

Besides, summarization of SIP account status,

- SIP User
- SIP account status (Registered / Unapplied / Trying / Timeout )

### 9.3 System >> 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 >> Configurations

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

Clear Configurations

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Select the module in the configuration file to clear.

SIP: account configuration.

AUTOPROVISION: automatically upgrades the configuration

TR069:TR069 related configuration

Clear Data Tables

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

Reset device

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

# 9.5 System >> Upgrade

• Web page: Login device web page, go to [System] >> [Upgrade]

	Current Software Version:	T1.5.0		
	System Image File:	Ľ.	Select	Upgrade
Jpgrade Server				
	Enable Auto Upgrade:	0		
	Upgrade Server Address1:	[		
	Upgrade Server Address2:			
	Update Interval:	24	Hour(s)	
		Apply	e nandeze	
irmware Informa	ition			
	Current Software Version:	T1.5.0		
	Server Firmware Version:			
	Lipgradie			
	New Firmware Information:			
ling Upgrade 🗐				
Marker Construction				
	Load Server File:		Select	(*.way,*.tar.gz) Upload

### Picture 21 - Web page firmware upgrade

### Table 5 - Firmware upgrade

Parameter	Description
Upgrade server	
Fuchic Auto Linguado	Enable automatic upgrade, If there is a new version txt and new
Enable Auto Upgrade	software firmware on the server, device will show a prompt upgrade

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	message after Update Interval.			
Upgrade Server Address1	Set available upgrade server address.			
Upgrade Server Address2	Set back up available upgrade server address.			
	Set Update Interval. Enable Auto Upgrade and configure the Update			
Update Interval	Interval. If the server has a new firmware, the device will prompt for			
	upgrade at the interval.			
Firmware Information				
Current Software Version	It will show Current Software Version.			
Server Firmware Version	It will show Server Firmware Version.			
	If there is a new version txt and new software firmware on the server,			
[lingrada] huttan	the page will display version information and upgrade button will			
[Upgrade] button	become available; Click [Upgrade] button to upgrade the new			
	firmware.			
Now version description	When there is a corresponding TXT file and version on the server			
New version description	side, the TXT and version information will be displayed under the			
information	new version description information.			

- The file requested from the server is a TXT file called vendor\_model\_hw1\_0.txt.Hw followed by the hardware version number, it will be written as hw1\_0 if no difference on hardware. All Spaces in the filename are replaced by underline.
- For example, the txt file name requested by X7C device is linkvil \_w712\_hwv1\_0.txt
- The URL requested by the device is HTTP:// server address/vendor\_Model\_hw10
  .txt: The new version and the requested file should be placed in the download directory of the HTTP
  server, as shown in the figure:
- TXT file format must be UTF-8
- vendor\_model\_hw10.TXT The file format is as follows:
- Version=2.12.1 #Firmware

Firmware=xxx/xxx.z #URL, Relative paths are supported and absolute paths are possible,

distinguished by the presence of protocol headers.

BuildTime=2022.05.06 20:00

Info=TXT

Xxxxx Xxxxx Xxxxx

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## 9.6 System >> Auto Provision

The Auto Provision settings help IT manager or service provider to easily deploy and manage the devices in mass volume. For the detail of Auto Provision, please refer to this link Auto Provision Description. device Webpage: Login and go to [**System**] >> [**Auto provision**].

CPE Serial Number:		200100000c383e030b3c	
Authentication Name:	OUTDOADDLAD	200100000000000000000000000000000000000	
Authentication Password:			
Configuration File Encryption Key:	-		
General Configuration File Entryption Key:			0
Download Fail Check Times:	1		
Update Contact Interval:	720	(0,>-S)Minute	0
Save Auto Provision Information:			0
Download CommonConfig enabled:	0		
Enable Server Digest:			0
Display Provision Prampt:	Disable All Pro	vision Prompt 🛛 👻	
DHCP Option >>			
DHCPv6 Option >>			
SIP Plug and Play (PnP) >>			
Static Provisioning Server >>			
Autoprovision Now >>			
IR069 >>			

### Picture 22 - Page auto provision Settings

Fanvil devices support SIP PnP, DHCP options, Static provision, TR069. If all of the 4 methods are enabled, the device will be upgraded according to the method obtained first.

Transferring protocol: FTP, TFTP, HTTP, HTTPS

This article only briefly introduces automatic deployment. For details, please refer to the document **Fanvil Auto Provision**.

Parameters	Description
Basic settings	
CPE Serial Number	Display the device SN
Authentication Name	The user name of provision server
Authentication Password	The password of provision server
Configuration File	If the device configuration file is encrypted , user should add the encryption
Encryption Key	key here

### Table 6 - Auto Provision

### W712 User Manual

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General Configuration File	If the common configuration file is encrypted, user should add the encryption
Encryption Key	key here
Download Fail Check Times	If there download is failed, device will retry with the configured times.
Update Contact Interval	device will update the devicebook with the configured interval time. If it is 0, the feature is disabled.
Save Auto Provision Information	Save the HTTP/HTTPS/FTP user name and password. If the provision URL is kept, the information will be kept.
Download Common Config enabled	Whether device will download the common configuration file.
Enable Server Digest	When the feature is enable, if the configuration of server is changed, device will download and update.
DHCP Option	
Option Value	Confiugre DHCP option, DHCP option supports DHCP custom option   DHCP option 66   DHCP option 43, 3 methods to get the provision URL. The default is Option 66.
Custom Option Value	Custom Option value is allowed from 128 to 254. The option value must be same as server define.
Enable DHCP Option 120	Use Option120 to get the SIP server address from DHCP server.
SIP Plug and Play (PnP)	
Enable SIP PnP	Whether enable PnP or not. If PnP is enable, device will send a SIP SUBSCRIBE message with broadcast method. Any server can support the feature will respond and send a Notify with URL to device. device could get the configuration file with the URL.
Server Address	Broadcast address. As default, it is 224.0.0.0
Server Port	PnP port
Transport Protocol	PnP protocol, TCP or UDP.
Update Interval	PnP message interval.
Static Provisioning Serve	r
Server Address	Provisioning server address. Support both IP address and domain address.
Configuration File Name	The configuration file name. If it is empty, device will request the common file and device file which is named as its MAC address. The file name could be a common name, \$mac.cfg, \$input.cfg. The file format supports CFG/TXT/XML.
Protocol Type	Transferring protocol type , supports FTP、 TFTP、 HTTP and HTTPS
Update Interval	Configuration file update interval time. As default it is 1, means device will check the update every 1 hour.

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	Provision Mode.				
Lindata Mada	1. Disabled.				
Update Mode	2. Update after reboot.				
	3. Update after interval.				
TR069					
Enable TR069	Enable TR069 after selection				
ACS Server Type	There are 2 options Serve type, common and CTC.				
ACS Server URL	ACS server address				
ACS User	ACS server username (up to is 59 character)				
ACS Password	ACS server password (up to is 59 character)				
Enable TR069 Warning	If TD060 is encluded there will be a promotion when connecting				
Tone	If TR069 is enabled, there will be a prompt tone when connecting.				
TLS Version	TLS version (TLS 1.0, TLS 1.1, TLS 1.2)				
INFORM Sending Period	INFORM signal interval time. It ranges from 1s to 999s				
STUN Server Address	Configure STUN server address				
STUN Enable	To enable STUN server for TR069				

# 9.7 System >> Tools

Tools provided in this page help users to identify issues at trouble shooting. Please refer to <u>10 Trouble</u> <u>Shooting</u> for more detail.

	Information Account.	Orfgræm	Itearobi	And Street at	Terr	Refert Press
- angelete						
Network	Sysley Frailie Sering:	0				
tioe	Derver Address Derver Port: ADP log Lovet:	0000 314 Eng				
Phone settings	Espect large	0				
batercom Settings	WLAN Log					
Call Line	Encable WLAH Logs	Equetion	12			
Call logs	WLAN Packet Captore	Apply				
· Application						
Security	LAN Packet Capture 9					
· Device Log	Watch Deg Erubio Watch Degi	a April				

Picture 23 - Tools

W712 User Manual

# 9.8 System >> Reboot device

This page can restart the device.

	( internation )	Americ	Configurations	- Happender	Anto Presson	10000	Reliest Phate
System							
Network	Refuse Phone		Outs (In	bort) battan bi re	start the phone!		
Line				Rebort			
Phone settings							
Intercom Settings							
Call List							
Call logs							
Application							
Security							
Device Log							



### 9.9 Network >> Basic

This page allows users to configure network connection types and parameters.

### 9.9.1 Network Settings

#### ■ IP Mode

There are 3 network protocol mode options, IPv4, IPv6 and IPv4 & IPv6.

Users can set it on the webpage [**Network**] >> [**Basic**].Select Wi-Fi for the network type, and you can set the network mode.

Net Type Wi-Fi 🗸		
Network Mode 🤨		
Network Mode:	IPv4 Only	
IPv4 Network Status	IPv6 Only IPv4 & IPv6	
IP:	172.16.0.207	
Subnet mask:	255.255.252.0	
Default gateway:	172.16.2.1	
MAC:	0c:38:3e:03:0b:3c	

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### Picture 25 - Network mode Settings

#### ■ IPv4

In IPv4 mode, there are 3 connection mode options: DHCP, PPPoE and Static IP.

Static IP 🔘	рнср 🔳	PPPoE O	
DHCP Hostname:			
Enable Vendor Identifier:	Disabled ¥		
Vendor Identifier:	Farwii W611W		
DNS Server Configured by:	DHCP 👻		
Primary DNS Server:	172.16.1.12		
Secondary DNS Server :	223 5 5 5		
DNS Domain:			

### Picture 26 - DHCP network mode

When using DHCP mode, device will get the IP address from DHCP server (router).

- Use DHCP DNS: It is enabled as default. "Enable" means device will get DNS address from DHCP server and "disable" means not.
- Use DHCP time: It is disabled as default. "Enable" to manage the time of get DNS address from DHCP server and "disable" means not.

### Picture 27 - PPPoE network mode

When using PPPoE, device will get the IP address from PPPoE server.

• Username: PPPoE user name.

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#### • Password: PPPoE password.

Static IP 🔹	DHCP O	PPPoE O	
1p1	192.168.1.179		0
Subnet mesk:	255 255 266 0		0
Default gateway:	192 168 1 1		0
Primary DNS Server:	8888		0
Secondary DNS Server :	202.06.134.133		0
DNS Domain:			

### Picture 28 - Static IP network mode

When using Static IP mode, user must configure the IP address manually.

- IP Address: device IP address.
- Mask: sub mask of your LAN.
- Gateway: The gateway IP address. device could access the other network via it.
- Primary DNS: Primary DNS address. The default is 8.8.8.8, Google DNS server address.
- Secondary DNS: When primary DNS is not available, Secondary DNS will work.

### ■ IPv6

In IPv6, there are 2 connection mode options, DHCP and Static IP.

- DHCP configuration refers to IPv4 introduction in last page.
- Static IP configuration is almost same as IPv4's, except the IPv6 Prefix.
- IPv6 Prefix: IPv6 prefix, it is similar with mask of IPv4.

tatic IP 💌	DHCP O
5	
refix Length:	
efault gateway:	
rimary DNS Server:	
econdary DNS Server :	
NS Domain:	

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#### Picture 29 - IPv6 Static IP network mode

## 9.9.2 VPN

Virtual Private Network (VPN) is a technology to allow device to create a tunneling connection to a server and becomes part of the server's network. The network transmission of the device may be routed through the VPN server.

For some users, especially enterprise users, a VPN connection might be required to be established before activate a line registration. The device supports two VPN modes, Layer 2 Transportation Protocol (L2TP) and OpenVPN.

The VPN connection must be configured and started (or stopped) from the device web portal.

L2TP

# NOTICE! The device only supports non-encrypted basic authentication and non-encrypted data tunneling. For users who need data encryption, please use OpenVPN instead.

To establish a L2TP connection, users should log in to the device web portal, open webpage [**Network**] >> [**VPN**]. In VPN Mode, check the "Enable VPN" option and select "L2TP", then fill in the L2TP server address, Authentication Username, and Authentication Password in the L2TP section. Press "Apply" then the device will try to connect to the L2TP server.

When the VPN connection established, the VPN IP Address should be displayed in the VPN status. There may be the delay of the connection establishment. User may need to refresh the page to update the status.

Once the VPN is configured, the device will try to connect with the VPN automatically when the device boots up every time until user disable it. Sometimes, if the VPN connection does not establish immediately, user may try to reboot the device and check if VPN connection established after reboot.

#### OpenVPN

To establish an OpenVPN connection, user should get the following authentication and configuration files from the OpenVPN hosting provider and name them as the following,

OpenVPN Configuration file:client.ovpnCA Root Certification:ca.crtClient Certification:client.crtClient Key:client.key

User then upload these files to the device in the web page [**Network**] >> [**VPN**], select OpenVPN Files. Then user should check "Enable VPN" and select "OpenVPN" in VPN Mode and click "Apply" to enable OpenVPN connection. Same as L2TP connection, the connection will be established every time when system rebooted until user disable it manually.

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## 9.10 Network >> Wi-Fi Settings

The default network priority is Ethernet

The current device supports coexistence of wifi and Ethernet, and users can log in to the web page with any network address for configuration

For example, WiFi access IP is 172.16.3.138 and Ethernet access IP is 172.16.7.116

Page login 172.16.7.116, 172.16.3.138 Any network address login page for configuration

tiaturock Adaptar	Printersty	
20621. Elformation		
	Apple	
and a second sec		
Net Type Mill v		
Net Type (W.H. v)	(Pv4 Cm) +	
Net Type (W.F) v) Network Mode: Network Mode:		
Net Type (W.F) v) Network Mode: Network Mode:	[Fv4 Ony ] w]	
Net Type [W.F. v] Network Mode: Network Mode: IPv4 Network Status		
Network Mode:  Network Mode:  IPv4 Network Status  IP:	177.16.3.138	

Picture 30 - Network Priority

After inserting WiFi Dongle, this page can open WiFi and add wifi information to view the wireless network list

Wi-El Enable:	Active		
Wi-Fi Info Add			
SS(D)	1		
Secure Mode:	Norte	*	
Encryption Type:	THOF	~	
Unermane:			
Pleasword			
	Add		
Wi-Fi Info List			
5510		Secure Mode	Encryption Type

Picture 31 - WiFi Settings

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# 9.11 Network >> Service Port

This page provides settings for Web page login protocol, protocol port settings and RTP port.

Web Server Type:	HTTP 👻		0
Web Logon Timeout:	15	(10~30)Minute	0
web auto login:			
HTTP Port:	80		0
HTTPS Port:	443		0
RTP Port Range Start:	10000	(1025~65530)	0
RTP Port Quantity :	865	(10~1000)	0

#### Picture 32 - Service Port Settings

### Table 7 - Service port

Parameter	Description
Web Server Type	Reboot to take effect after settings. Optionally, the web page login is
Web Server Type	HTTP/HTTPS.
Web Logon Timeout	Default as 15 minutes, the timeout will automatically exit the login page,
	need to login again.
	After the timeout does not need to enter a user name password, will
Web auto login	automatically login to the web page.
	The default is 80. If you want system security, you can set ports other than
HTTP Port	80.
	Such as :8080, webpage login: HTTP://ip:8080
HTTPS Port	The default is 443, the same as the HTTP port.
RTP Port Range Start	The value range is 1025 to 65535. The value of RTP port starts from the
	initial value set. For each call, the value of voice and video port is added 2.
RTP Port Quantity	Number of calls.

## 9.12 Network >> VPN

Users can configure a VPN connection on this page. See <u>9.9.2 VPN</u> for more details.

## 9.13 Line >> SIP

Configure the Line service configuration on this page.

## Table 8 - Line configuration on the web page

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Parameters	Description	
Register Settings	·	
	Display the current line status at page loading. To get the up to date line	
Line Status	status, user has to refresh the page manually.	
Activate	Whether the service of the line is activated	
Username	Enter the username of the service account.	
Authentication User	Enter the authentication user of the service account	
Display Name	Enter the display name to be sent in a call request.	
Authentication Password	Enter the authentication password of the service account	
Realm	Enter the SIP domain if requested by the service provider	
Server Name	Input server name.	
SIP Server 1		
Server Address	Enter the IP or FQDN address of the SIP server	
Server Port	Enter the SIP server port, default is 5060	
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.	
Registration Expiration	Set SIP expiration date.	
SIP Server 2		
Server Address	Enter the IP or FQDN address of the SIP server	
Server Port	Enter the SIP server port, default is 5060	
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.	
Registration Expiration	Set SIP expiration date.	
SIP Proxy Server Address	Enter the IP or FQDN address of the SIP proxy server.	
Proxy Server Port	Enter the SIP proxy server port, default is 5060.	
Proxy User	Enter the SIP proxy user.	
Proxy Password	Enter the SIP proxy password.	
Backup Proxy Server	Enter the IP or EODN address of the backup provides on or	
Address	Enter the IP or FQDN address of the backup proxy server.	
Backup Proxy Server Port	Enter the backup proxy server port, default is 5060.	
Basic Settings		
Dial Without Registered	Set call out by proxy without registration	
DTMF Type	Set the DTMF type to be used for the line	
DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'	
Request With Port	Whether the URI carries port number.	
Use VPN	Set the line to use VPN restrict route	
Use STUN	Set the line to use STUN for NAT traversal	

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Enable Failback	Whether to switch to the primary server when it is available.	
E e ille e e la laste a cel	A Register message is used to periodically detect the time interval for the	
Failback Interval	availability of the main Proxy.	
	Multiple proxy cases, whether to allow the invite/register request to also	
Signal Failback	execute failback.	
Oirmal Datas Orsenta	The number of attempts that the SIP Request considers proxy unavailable	
Signal Retry Counts	under multiple proxy scenarios.	
Codece Sottings	Set the priority and availability of the codecs by adding or remove them	
Codecs Settings	from the list.	
System		
	Set the line to enable call ending by session timer refreshment. The call	
Enable Session Timer	session will be ended if there is not new session timer event update	
	received after the timeout period	
Session Timeout	Set the session timer timeout period	
Deenenee Cingle Codes	If setting enabled, the device will use single codec in response to an	
Response Single Codec	incoming call request	
Keen Alive Tree	Set the line to use dummy UDP or SIP OPTION packet to keep NAT	
Keep Alive Type	pinhole opened	
Keep Alive Interval	Set the keep alive packet transmitting interval	
Keep Authentication	Keep the authentication parameters from previous authentication	
User Agent	Set the user agent, the default is Model with Software Version.	
Specific Server Type	Set the line to collaborate with specific server type	
SIP Version	Set the SIP version	
Local Port	Set the local port	
Enable user=device	Sets user=device in SIP messages.	
Use Tel Call	Set use tel call	
	Using TCP protocol to guarantee usability of transport for SIP messages	
Auto TCP	above 1500 bytes	
Enable Rport	Set the line to add rport in SIP headers	
Enable PRACK	Set the line to support PRACK SIP message	
DNS Mode	Select DNS mode, A, SRV, NAPTR	
Enable Long Contact	Allow more parameters in contact field per RFC 3840	
Frankla Otriat Dra	Enables the use of strict routing. When the device receives packets from	
Enable Strict Proxy	the server, it will use the source IP address, not the address in via field.	
Use Quote in Display Name	Whether to add quote in display name, i.e. "Fanvil" vs Fanvil	
Enable GRUU	Support Globally Routable User-Agent URI (GRUU)	

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Set the Caller ID Header
Feature Sync with server
Enable/Disable SCA (Shared Call Appearance )
Set the timeout to use the server.
Choose TLS Version.
With the use of special server, click to call out directly after enabling.
Chose Flash mode, normal or SIP info.
Set the SIP info content type.
Set the SIP info content body.
When opening the registration, are IP package and user agent with MAC.
Set up to strictly match the Branch field.
Set open group.
Set to enable RFC4475.
Enable strict UA matching.
Set the registration failure rate time
Set the registration failure retry time.
Modify the device SIP port.

# 9.14 Line >> SIP Hotspot

Please refer to 9.6 SIP Hotspot

# 9.15 Line >> Basic Settings

Set up the register global configuration.

## Table 9 - Set the line global configuration on the web page

Parameters	Description	
STUN Settings		
Server Address	Set the STUN server address	
Server Port	Set the STUN server port, default is 3478	
Binding Period	Set the STUN binding period which can be used to keep the NAT pinhole	
	opened.	
SIP Waiting Time	Set the timeout of STUN binding before sending SIP messages	
The TLS authentication		
TLS Certification File	Upload or delete the TLS certification file used for encrypted SIP	

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transmission.

# 9.16 Line >> RTCP-XR

RTCP-XR mode is based on RFC3611 (RTP Control Extended Report), which can measure and evaluate network packet loss, delay and voice quality by sending RTCP-XR packets.

Parameters	Description	
VQ RTCP-XR Settings		
VQ RTCP-XR Session Report	VQ report on whether session mode is enabled or not.	
VQ RTCP-XR Interval Report	Whether to turn on Interval mode for VQ report sending.	
Period for Interval Report(5~99)	The time interval at which VQ reports are sent periodically.	
Marring threshold for Moole(15, 40)	When the device calculated the Moslq value x10 below the	
Warning threshold for Moslq(15~40)	set threshold, a warning was issued.	
Critical threshold for Moolg(15, 40)	When the device calculates the Moslq value x10 below the	
Critical threshold for Moslq(15~40)	set threshold, the critical report is issued.	
Warping Threshold for Doloy(10, 2000)	When the one-way delay of the device is greater than the	
Warning Threshold for Delay(10~2000)	set threshold, warning is issued.	
Critical Threshold for Doloy(10, 2000)	When the device computes that the one-way delay is	
Critical Threshold for Delay(10~2000)	greater than the set threshold, the critical report is issued.	
Display Papart Options on device	Whether to display the VQ report data of the last call on the	
Display Report Options on device	device	
Display Papart Options on web	Whether to display the VQ report data for the last call	
Display Report Options on web	through the web page.	

## Table 10 - VQ RTCP-XR Settings

## 9.17 device settings >> Features

Configuration device features.

Parameters	Description	
Basic Settings		
Enable Auto Onhook	The device will hang up and return to the idle automatically at hands-free mode	
Auto HangUp Delay	Specify Auto Onhook time, the device will hang up and return to the idle	

Table 11 - General function Settings

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	automatically after Auto Hand down time at hands-free mode, and play	
	dial tone Auto Onhook time at handset mode	
Enable Default Line	If enabled, user can assign default SIP line for dialing out rather than	
	SIP1.	
Enable Auto Switch Line	Enable device to select an available SIP line as default automatically	
Default Ext Line	Select the default line to use for outgoing calls	
Pan Outrains	If you select Ban Outgoing to enable it, and you cannot dial out any	
Ban Outgoing	number.	
Enable CallLog	Select whether to save the call log.	
Enable Restricted Incoming		
List	Whether to enable restricted call list.	
Enable Restricted Outgoing	Whether to enable the restricted allocation list.	
List		
Enable Country Code	Whether the country code is enabled.	
Country Code	Fill in the country code.	
Area Code	Fill in the area code.	
Enable Number Privacy	Whether to enable number privacy.	
Match Direction	Matching direction, there are two kinds of rules from right to left and from	
	left to right.	
Start Position	Open number privacy after the start of the hidden location.	
Hide Digits	Turn on number privacy to hide the number of digits.	
Allow IP Call	If enabled, user can dial out with IP address	
P2P IP Prefix	Prefix a point-to-point IP call.	
Restrict Active URI Source	Set the device to accept Active URI command from specific IP address.	
IP	Set the device to accept Active OKI command from specific IP address.	
Line Display Format	Custom line format: SIPn/SIPn: xxx/xxx@SIPn	
SIP notify	When enabled, the device displays the information when it receives the	
	relevant notify content.	

# 9.18 device settings >> Media Settings

Change voice Settings.

## Table 12 - Voice settings

Parameters	Description
Ordere Orttinger	Select enable or disable voice encoding:
Codecs Settings	G.711A/U, G.722, G.729, G726, ILBC, opus,G.723.1
Audio Settings	

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5.3kb/s or 6.3kb/s is available.
Enter the DTMF payload type, the value must be 96~127.
Set AMR load type, range 96~127.
Set Opus load type, range 96~127.
Set the ILBC Payload Type, the value must be 96~127.
Settings
Set CNAME user
Set CNAME host
Hold the call and send the packet after 30s

## 9.19 device settings >> MCAST

This feature allows user to make some kind of broadcast call to people who are in multicast group. User can configure a multicast DSS Key on the device, which allows user to send a Real Time Transport Protocol (RTP) stream to the pre-configured multicast address without involving SIP signaling. You can also configure the device to receive an RTP stream from pre-configured multicast listening address without involving SIP signaling. You can specify up to 10 multicast listening addresses.

#### Table 13 - Multicast parameters

Parameters	Description
Name	Listened multicast server name
Host: port	Listened multicast server's multicast IP address and port.

## 9.20 device settings >> Action

### Action URL

Action urls are used for IPPBX systems to submit device events.

## 9.21 device settings >> Time/Date

The user can configure the time Settings of the device on this page.

Parameters	Description
Network Time Server Settings	
Time Synchronized via SNTP	Enable time-sync through SNTP protocol
Time Synchronized via DHCP	Enable time-sync through DHCP protocol

Primary Time Server	Set primary time server address					
	Set secondary time server address, when primary server is not					
Secondary Time Server	reachable, the device will try to connect to secondary time server to					
	get time synchronization.					
Time Zone	Select the time zone					
Resync Period	Time of re-synchronization with time server					
12-Hour Clock	Set the time display in 12-hour mode					
Date Format	Select the time/date display format					
Daylight Saving Time Settings						
Local	Choose your local, device will set daylight saving time automatically					
	based on the local					
DST Set Turne	Choose DST Set Type, if Manual, you need to set the start time and					
DST Set Type	end time.					
	Daylight saving time rules are based on specific dates or relative					
Fixed Type	rule dates for conversion. Display in read-only mode in automatic					
	mode.					
Offset	The offset minutes when DST started					
Month Start	The DST start month					
Week Start	The DST start week					
Weekday Start	The DST start weekday					
Hour Start	The DST start hour					
Minute Start	The DST start minute					
Month End	The DST end month					
Week End	The DST end week					
Weekday End	The DST end weekday					
Hour End	The DST end hour					
Minute End	The DST end minute					
Manual Time Settings	You can set your time manually					

# 9.22 device settings >> Time Plan

Time Plan (time management) settings can set a time point or a time period. The time point is to perform an action at a certain time, and the time period is to perform an action for a certain period of time.

	W712 User Manual	
ime Plan:		
Name:		
Typei	Timed reboot	
1997		
A CONTRACTOR OF A CONTRACT	100 million 201	
Repetition period:	No repetition 👻	
	D 2	
	C 3	
	C 4	
Mentalist	<u>₽</u> 5	
Monthly:	0.6	
	07	
	0.9	
	10	
Effective times		
ENOLIVE DEDCI		
	Adit	
îme Plan List: 🔍		
ime Plan List:		
Index Name	Type Special configure Repetition period Effective tio	tie
	Delete	

Picture 33 - Time Plan (1)

Table 15 - Time Pla
---------------------

configure	Value	Description
Time plan Type	1: Timed reboot	Type,Action performed at a time
	2: Timed upgrade	point/time period
	3: Timed forward	
	4: Timed config	
Repetition	0: No repetition	repeat type
periodRepetition period	1: Daily	
	2: Weekly	
	3: Monthly	
in weeks	0-6 : Sunday-Saturday,	When the repetition type is
	supports multiple	daily/non-repeating, the value is
	separated by ";"	empty
	1-31: 1-31 day	
in days	xx:xx-xx:xx	start time - end time period

When the Time Plan type is selected as timed forwarding, the webpage will prompt to enter the forwarding number and forwarding line, as shown in the figure.

	W712 User Manual				
Time Plan:					
Name:					
Type:	Timed forward				
Forward Number:	123				
Line:	234@SIP1 ¥				
Repetition period:	No repetition				
	0 10				
Monthly:	0 11				
	0 12				
	0 13				
	14				
	D 15 *				

Picture 34 - Time Plan (2)

**Forwarding Number:** Configure the forwarding number to forward to the number within the set time period. Line: Forward the specified line, when the line is set to a certain line, it will only take effect for this line.

#### 1. Timed forwarding rules:

1) When there is forwarding under the line, the forwarding number under the line is used; when there is no forwarding number under the SIP line, when there is an incoming call within the time period set by the scheduled forwarding, the device will be forwarded to the specified scheduled forwarding number; when outside the time period, no forwarding is performed. That is, the priority Line>Time Plan.

2) All scheduled forwarding types are unconditional forwarding.

## 9.22.1 Repeat Period Select Daily

Select daily as the repetition period, and enter any time in the date format from 00:00 to 23:59 in the effective time input box.

The first and third input boxes only allow input of any integer from 00 to 23, and 0 is automatically added before inputting an integer less than 10.

The second and fourth input boxes only allow input of any integer from 00 to 59, and 0 is automatically added before inputting an integer less than 10.

Te	Daily			~				
	0	V I	0	v -	0	~ 1	0	~
		Daily	1	0 + 0	0 ~ = 0 ~ =	0 -0		

Picture 35 - Time Plan (3)

## 9.22.2 Repeat Period Select Weekly

Day of the week selection box, check it to take effect.

The final effective time is the combination of the day of the week and the set time.

Repetition period:	Weekly
Weekly:	<ul> <li>Sunday</li> <li>Monday</li> <li>Tuesday</li> <li>Wednesday</li> <li>Thursday</li> <li>Friday</li> <li>Saturday</li> </ul>
Effective time:	Add

Picture 36 - Time Plan (4)

## 9.22.3 Time Plan List

All configurations submitted after the configuration is submitted are displayed in a list, and the order is sorted by week (day, Monday, Tuesday...), and if the week is the same, it is sorted by time (time from small to large). The function sequence is restarted first and then upgraded.

1 Index	Name	Type	Special configure	Repetition period	Effective time
---------	------	------	-------------------	-------------------	----------------



## 9.22.4 **Delete**

Check the box before the serial number, click to select all configuration items in the list.

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Click Delete to delete the checked configuration in the configuration list, and it will become invalid after deletion.

🗆 Index	Name	Type	Special configure	Repetition period	Effective time
0.1		Timed forward	SIP1 123	Weekly(SUN;)	00:00-15:00



# 9.23 Intercom Settings>> Channel Settings

Users can configure an analog channel or digital channel for the gateway through this page.

## Digital channel

When the channel type is set to a digital channel, the device can communicate with the digital intercom.

- Transmission frequency: You can fill in the port emitting frequency. When the receiving frequency of the intercom is consistent with the transmission frequency of the gateway, you can receive the gateway sending
- Receive frequency: You can fill in the receiving frequency of the gateway. When the transmission frequency of the intercom is consistent with the receiving frequency of the gateway, it can be sent to the gateway
- Power: Choose high/low, high power communication distance, low -power communication distance, short power use power consumption than low power than low power
- Time slot: The gateway slot can be set. DMR divides the 12.5K Hertz channel into two alternate time slots. Users can choose any temporary clearance for voice calls and data transmission.
- Colour code: Settings can be set. Users who need to communicate with each other must be set to the same color code, and the terminals do not respond to channel activities that do not match the preset color code.

## Analog channel

When the channel type is set to analog channel, the device can communicate with the analog intercom.

- Transmission frequency: You can fill in the port emitting frequency. When the receiving frequency of the intercom is consistent with the transmission frequency of the gateway, you can receive the gateway sending
- Receive frequency: You can fill in the receiving frequency of the gateway. When the transmission frequency of the intercom is consistent with the receiving frequency of the gateway, it can be sent to the gateway
- Power: Choose high/low, high power communication distance, low -power communication distance,

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short power use power consumption than low power than low power

- Recv/Send Sub Tone: You can set the receiving and sending Asian sounds as CTCSS/CDCSS.
- Channel Spacingl: Broadband (25kHz) or narrowband (12.5kHz) can be selected

## 9.24 Intercom Settings>> Call and VAD detection function

Users can set some parameters on this page, including VAD -related parameters.

Parameter	Description
Call and VAD detection	function
Transfer Number	Set the intercom machine number to call the machine number, you
	can set the SIP number and the broadcast address
Call Timeout	Set the call timeout and unsolved gateway hanging time
	Set the silent detection time. If the unmanned voice of the SIP end
Voice Silence Check	exceeds the configuration parameter, it will think that the line is mute
	and releases the SIP terminal
	Set the time parameter to analyze whether there is no sound within
VAD Accurcy	the duration of the configuration parameter on the SIP side, and the
	sound is forwarded to the intercom.
Voice Prompt	
Answer Prompt	Whether to enable an answer prompt
Release Prompt	Whether to enable the release prompt

Table 16 - Call and VAD detection function

## 9.25 Call List

Restricted Incoming Calls:

It is similar like a Blocked List. Add the number to the Blocked List, and the user will no longer receive calls from the stored number until the user removes it from the list.

Users can add specific Numbers to the Blocked List or add specific prefixes to the Blocked List to block calls with all Numbers with this prefix.

Restricted Outgoing Calls:

Adds a number that restricts outgoing calls and cannot be called until the number is removed from the table.

## 9.26 Call Log

Users can browse the complete call records on this page. Call records can be named according to the

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main call number, the call number is called, and the time or length of time can be sorted. You can also screen the call records through the call record type (the SIP side actively call or intercom).

Users can also add the SIP number in the call record to the blocked List.

# 9.27 Application >> Manage Recording

See<u>8.1 Record</u> for details of recording.

## 9.28 Security >> Web Filter

The user can set up a configuration management device that allows only machines with a certain network segment IP access.

iystem			
actuary's	Web Filter Table 🔍		
Vetwork	Start IF Address	End IP Address	Cyture
ine	Web Filter Table Settings		
Hone settings	Start IF Appres	End IP Address	9 AH
'bonebook	Web Filter Setting O		
tall logs	Trailie was Filter	Addite	
unction Key			
uplication			
secondy.			

Picture 39 - Web Filter settings

Option
Modify

Picture 40 - Web Filter Table

Adding and removing IP segments are accessible. Configure the starting IP address within the start IP, end the IP address within the end IP, and click [Add] to submit to take effect. A large network segment can be set, or it can be divided into several network segments to add. If the user wants to delete, select the initial IP

of the network segment to be deleted from the drop-down menu, and then click [Delete] to take effect.

Enable web page filtering: configure enable/disable web page access filtering; Click the "apply" button to take effect.

Note: if the device you are accessing is in the same network segment as the device, please do not configure the filter segment of the web page to be outside your own network segment, otherwise you will not be able to log in the web page.

## 9.29 Security >> Trust Certificates

Set whether to open license certificate and general name validation, select certificate module. You can upload and delete uploaded certificates.

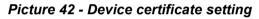
	The Central Ce	Brane Cettilicates	Firmed			
System						
Network	Permission Certificate					
tine	Permission Contribution	Onatlier	v 0			
	Converse, Name Validation	Dalables	- • •			
Phone settings	Certificatie model	All Cettlicates	0.0			
		Approv				
Pironatbook	Import Certificates					
Call heps	Land Server File		Seter	11mat		
Function Key	Certificates List					
-	Index File Barra	Gaussiel To	(0)	und Ry	Exercitor	file tio
Application						Detete
· Second						
Oevice Log						

#### Picture 41 - Certificate of settings

## 9.30 Security >> Device Certificates

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

	Multi Filter	Devce Cathloniae	Presed in the local division of the local di		
System					
Network	Device Certificates				
Line	Device Certificates	Default Certificates + EDITE EDITE	(Assistance)		
Phone settings	Import Certificates	Contractor			
Phonebuok	laad Device file	£ 78	Seed lisear		
Call logs	Certification file				
	Pille Narrie	Jamend To	Issued By	Experience	File Size
Function Key					Deate
Application					



# 9.31 Security >> Firewall

	Web Phys. Breet Certification   University Certification   Pressal	
System		
Network	Firewall Type   Fields Japan Bales:   Firewall Statue Corput B	= 0
tine	Apaly	
Phone settings	Firewall Ingust Rule Table \\ 0	
Phonebook	Jodes Deny Pernet Protocol Gr: Address Set Mask Sit Part Range Dat Address Dat	Husk Det Port Ban
	Firewall Ostput Rule Table 🔍	
Call logs	Jodes Deny/Vernut Protocol Gric Adubres Set Mask Gir Part Range Det Adubres Det	Hink Dyl. Fort Bat
Function Key	Firewall Settings	
	Deput/Dutput (input @) 5ht Addrese Det Addrese	1
Application	Deny/Perint: Deny V Six Mask Dat Mask	Abl
Service	Protocol 102F will fire Rort Range Dat Firet Range	-1
Device Log	Rafe Delete Option 0	
10.7 (17.7 C. 17.7 C. 1	Impat/Output impat w Index To fix Onized	Detete

### Picture 43 - Network firewall Settings

The user can set whether to enable the input through this page, output firewall and set the firewall input and output rules. Using these Settings can prevent some malicious network access, or restrict internal users

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access to some resources of the external network, which can improve security.

Firewall rule set is a simple firewall module. This feature supports two types of rules: input rules and output rules. Each rule is assigned an ordinal number, allowing up to 10 for each rule. Considering the complexity of firewall Settings, the following is an example to illustrate:

Parameter	Description
Enable Input Rules	Indicates that the input rule application is enabled.
Enable Output Rules	Indicates that the output rule application is enabled.
Input/Output	To select whether the currently added rule is an input or output rule.
Deny/Permit	To select whether the current rule configuration is disabled or allowed;
Protocol	There are four types of filtering protocols: TCP   UDP   ICMP   IP.
Src Port Range	Filter port range
	Source address can be host address, network address, or all addresses
Src Address	0.0.0.0; It can also be a network address similar to *.*.*.0, such as:
	192.168.1.0.
	The destination address can be either the specific IP address or the full
Dst Address	address 0.0.0.0; It can also be a network address similar to *.*.*.0, such as:
	192.168.1.0.
	Is the source address mask. When configured as 255.255.255.255, it
Src Mask	means that the host is specific. When set as 255.255.255.0, it means that a
	network segment is filtered.
	Is the destination address mask. When configured as 255.255.255.255, it
Dst Mask	means the specific host. When set as 255.255.255.0, it means that a
	network segment is filtered.

## Table 17 - Network Firewall

After setting, click [**Add**] and a new item will be added in the firewall input rule, as shown in the figure below:

wall In	put Rule Ta	nie 🖸						
	any/Permit		Src Address		Sit: Port Range		Dot Mask	Dist Port Range
1.	deny:	luttp		192.108.1.154	0-9	255,255,255.0		0-9

#### Picture 44 - Firewall Input rule table

Then select and click the button [Apply].

In this way, when the device is running: ping 192.168.1.118, the packet cannot be sent to 192.168.1.118 because the output rule is forbidden. However, the other IP of the ping 192.168.1.0 network segment can still receive the response packet from the destination host normally.

NVI LINKVIL	W712	User Manual	
Bule Dolete Option @	[treat_*]	Index To Be Deleted	Delate

Picture 45 - Delete firewall rules

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

# 9.32 Device Log >> Device Log

You can grab the device log, and when you encounter an abnormal problem, you can send the log to the technician to locate the problem. See <u>10.5 Get log information</u>.

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# **10 Trouble Shooting**

When the device is not in normal use, the user can try the following methods to restore normal operation of the device or collect relevant information and send a problem report to Fanvil 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**

The user can restart the device through the webpage, click [System] >> [Tools] >> [Reboot Phone] and Click [Reboot] button, or directly unplug the power to restart the device.

# **10.3 Reset Device to Factory Default**

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

To restore the factory settings, you need to log in to the webpage [**System**] >> [**Configuration**], and click [**Reset**] 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 "Network Packets 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 Technical Support mailbox.

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# **10.5 Get Log Information**

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 "end" button, "save" to the local for analysis or send the log to the technician to locate the problem.

# 10.6 U disk/TF card upgrade

When the W712 fails to use the webpage to upgrade, you can try to upgrade through the U disk/TF card upgrade. What you need to upgrade is the suffix name of the suffix .z, copy this file to the root directory. Note that the format needs to be FAT/ FAT32/ EXT3/ 4/ Squashfs

Enter the upgrade mode step:

1) Insert U disk/TF card containing upgrade files

2) Press the RESET key in the green LED light flash in the equipment on the equipment to observe the LED light to become a slow flash state

3) Successful entering the upgrade mode, the equipment green LED light will become flash. At this time, the device will automatically select the upgrade file in the U disk. After finding it, the equipment will be upgraded. After completion, the device will automatically restart.

4) If the U disk and TF card are stored and inserted both, check the U disk first, then check the TF card

## **10.7 Common 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 SIP/NET and function button
	indicators are always on), the device system is damaged. Please
	contact your location technical support to help you restore your
	equipment system.
Device could not register to a	1. Please check if the device is connected to the network.
service provider	2. 2. If the network connection is good, please check your line

#### Table 18 - Trouble Cases



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configuration again. If all configurations are correct, contact your service
provider for support, or follow the instructions in "12.4 Network Data
Capture" to obtain a registered network packet and send it to the Support
Email to help analyze the issue.

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