





# H4/H4W/H6W User Manual

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# 1 Safety Instruction

# 1.1 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 product-specified power adapter. If you need to use a power adapter provided by another manufacturer due to special circumstances, please confirm that the voltage and current of the provided adapter meet the specifications of this product, and it is recommended to use a product that has passed safety certification, otherwise it may cause fire or electric shock accidents. When using this product, do not damage the power cord, do not twist, stretch and strap it, and do not press it under heavy objects or sandwich between items, otherwise it may cause fire or electric shock caused by broken power cord.
- Before using the product, please confirm that the temperature and humidity of the environment in which it is located meet the working needs of the product.
- 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.
- Please refrain from inserting metal objects such as pins or wires into the vents or crevices. Doing so may cause electric shock accidents due to the passage of current through the metal objects. If foreign objects or similar metallic items fall inside the product, usage should be stopped promptly.
- Please do not discard or store the plastic bags used for packaging in places accessible to children to prevent them from covering their heads, leading to obstruction of the nose and mouth, which may cause suffocation.
- Do not install this phone 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.



### 2 Product Overview

#### 2.1 Overview

H4/H4W/H6W is newly designed hotel IP phone with powerful features and exquisite appearance. Equipped with 5 programmable keys, they support high-definition voice, 100Mbps Ethernet, and PoE power supply, meeting diverse application needs in hotel check-in scenarios.H6W features a 3.5-inch 320x480 IPS color screen; H4W and H6W have built-in dual-band 2.4GHz & 5GHz Wi-Fi, supporting Wi-Fi 6, providing a high-quality user experience, and reducing hotel deployment costs.In addition to hotel scenarios, they are also suitable for applications in shopping malls, hospitals, supermarkets, and other settings.

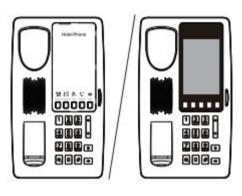
# 2.2 Specification Parameter

Spec.	H4/H4W	H6W
Screen	1	3.5 " 320x480 IPS color screen
Dual-band Wi-Fi	Support (H4W)	Support
Wi-Fi 6	Support (H4W)	Support
Broadband encoding	G.722, Opus	G.722, Opus
Network speed	10/100 Mbps	10/100 Mbps
PoE	Support	Support
USB(Charge Only)	One	One
DSS Key	Five	Five
Indicator light	One	One
IP Mode	IPv4/IPv6/IPv4&IPv6	IPv4/IPv6/IPv4&IPv6

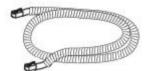


# 3 Installation Instructions

# 3.1 Device Inventory



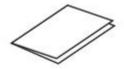
IP Phone



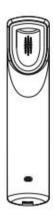
**Handset Cord** 



Stand



Quick Installation Guide



Handset



**Ethernet Cord** 



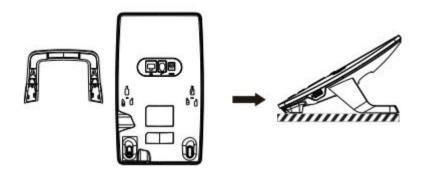
Power Adapter



#### 3.2 Installation Procedure

#### 3.2.1 Stand Installation

Please install the phone according to the instructions in the image below.



# 3.2.2 Network Configuration Steps For H4W/H6W

#### Method 1:

- 1. Enter [Advanced Settings] on the W611W, then go to [Share Wi-Fi] to enable the Wi-Fi sharing function and set the office network SSID and password. At this point, the W611W functions as an AP.
- 2. Power on the H4W/H6W devices.
- 3. After powering up, the W611W will push the office network SSID and password to the H4W/H6W, enabling them to connect to the office network. Once the Wi-Fi connection is successful, the power indicator will flash quickly 5 times.



#### Method 2:

- 1. The user creates a Wi-Fi network with the SSID "WiFi-device-ssid" and the password "i<0%aY8+".
- 2. After powering on, the H4W/H6W devices will automatically connect to this Wi-Fi.
- 3. Once the connection is successful, the power indicator will flash quickly 5 times. The Wi-Fi information of the H4W/H6W can be modified through automatic deployment to connect to the office network.
- 4. Wi-Fi module configuration file as shown:

<<VOIP CONFIG FILE>>Version:2.0000000000

#### <NET CONFIG MODULE>

--WIFI List-- :

Item1 WIFI Name :Redmi K60 Item1 WIFI SSID :Redmi K60

Item1 Secure Mode :1 Item1 WIFI Encryption :1 Item1 WIFI User Name :

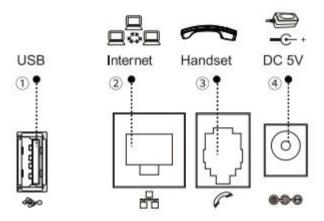
Item1 WIFI Password :12345678

<<END OF FILE>>



# 4 User Guide

# **4.1 Interface Specification**



Number	Interface	Description
1)	USB port	Connect USB device(Charge Only)
2	Network port	Connect local area network or Internet
3	Handset port	Connect IP Phone handset
4	Power port	Connect the power adapter

# 4.2 Standby Screen Instructions For H6W

- The following image shows the default standby screen interface, which represents the status of the user interface for most of the time.
- Icon descriptions are described in <u>Appendix I</u>.





Number	Description
1	Welcome word, number
2	Status icon
3	Time, Date
4	Function Key

# 4.3 Menu Introduction

#### The method to access the menu on H6W:

On the standby screen, enter '#\*107' to access the menu.

#### Menu functions:

Menu	Description
Status	Display device, network, account information, etc.
Message	Display Voice Message and SMS.



Basic	Change Language, Screen Setting, Voice Volume, WLAN; Reboot	
Dasic	System	
System	Modify Account, Network; Factory Reset.	

#### 4.4 Device Status

Users can view the status through the device screen or web interface.

#### Viewing the status of H6W through the device menu:

Go to [Menu]>>[Status], which allows you to obtain the following status information:

- Network:Display device's network mode, IP address, and other relevant information.
- Phone: Display device's memory size, runtime, software version, and other relevant information.
- Account: Provides information about registered accounts on the device, including account names/numbers and registration status.

#### Viewing the status of H4/H4W/H6W through the web interface:

Go to web >>[System] >> [Information], and check the device status.

- System: Displays information such as the device model name, hardware version, software version, uptime, WAN port speed, memory information, system time, and other details.
- Network: Displays information such as the device's network mode, MAC address,
   Ethernet IP, mask, gateway, and other details.
- Account: Displays information about the registered account names/numbers on the device, including registration status and other details.

# 4.5 Web Management

#### 4.5.1 Device IP Address

#### **Retrieve Device IP through Scanning Tool:**

1. Connect the computer and H4/H4W/H6W to the same local network, and install



Device Manager on the PC.

2. Open the IP scanning tool (Device Manager), click on the scan button to obtain the IP address of the device within the local network.



#### To obtain the device IP through the device:

- H6W: User can long-press the "#" key. Go to [Status]>>[Network] to obtain the device's IP address.
- H4/H4W: Users can long-press the "#" key, and the device will audibly announce the
   IP address.

#### 4.5.2 Web Interface

Ensure that the computer and the device are on the same local network. Open a web browser, enter the obtained device IP, log in to the device's web page, and access the login page.

Users must enter the correct username and password to log in to the web page. The default username and password are both "admin."

# 4.6 Language Settings

Users can set the language for H4/H4W/H6W through the device interface and the web interface.

#### Set language under Factory Reset(H6W):

After a factory reset, the device prompts the user to select a language. The user chooses the desired language and clicks OK (default is English).



#### Set language in the device's menu interface(H6W):

Set language while the device is in standby mode. Click the corresponding button on the screen>>[Menu]>>[Basic]>>[Language]

#### Set language in the web interface:

Log in to the device's web page, then set the language from the drop-down menu in the top right corner of the page. When users check "Synchronic language to the phone," the webpage language will also synchronize the language on the LCD of the H6W phone.

# 4.7 Line Settings

The device supports two SIP accounts simultaneously, Users can switch between two SIP accounts as needed and register SIP accounts through the device menu and the web interface.

#### Registering an account through the device menu(Only H6W):

Users can register SIP account by navigating to [Menu] >> [System] >> [Account].

After configuring the SIP parameters, click [Save] to successfully register the account. The default password to access [System] is "123".

#### Registering an account through the web interface:

Users can register a SIP account through the web page by navigating to [Line] >> [SIP] >> [Line]. selecting the registered line, and registering the SIP account through [Register Settings]. After completing the SIP parameter settings, click [Apply] to successfully register.

#### **SIP Parameters:**

Parameters	Description
Line Status	On this page, the current status of the line is displayed. To obtain
Line Status	the latest online status, users must manually refresh the page.



Enable	The status of this line is 'Enabled'	
Username	Enter the username of the service account.	
Authentication		
User	Enter the authentication name of the service account.	
Display Name	Enter the display name shown when a call request is sent.	
Authentication	Enter the authorization recovered of the convice account	
Password	Enter the authentication password of the service account.	
Server Address	Enter the SIP server address.	
Server Port	Enter the SIP server port.	



### 5 Call Features

# **5.1 Making Calls**

### **5.1.1** Making Calls

#### H6W:

- After pressing the hands-free key or picking up the handset, users can input the phone number, then press the [Send] or "#" key to make the call.
- Users can directly input the phone number and then press the [Send] or "#" key to make the call. Alternatively, they can pick up the handset to make the call directly.

#### **H4/H4W:**

- After pressing the hands-free key or picking up the handset, users can input the desired phone number and then press "#" to place the call.
- Users can directly input the phone number and then press "#" to make the call, or they can pick up the handset to make the call directly.

#### 5.1.2 **IP Call**

The user can enter the dialing interface by picking up the handset or pressing the hands-free button. Then, they can input the IP address of the remote device and press the "Dial" button or the "#" button to make a call.

#### Note:

Replace the "." in the IP address with "\*".



### 5.1.3 Speed Dialing

#### Configure speed dialing on the web page:

Go to web, [Function Key]>>[DSS Key], type select [Memory Key], enter the SIP account or IP address, subtype select [Speed Dial]. In standby mode, pressing this key directly initiates a quick call to the configured number.

#### 5.2 Answer Call

### 5.2.1 Manually Answer

**H6W:** Users can answer calls by picking up the handset, pressing the **[Answer]** button open the speakerphone channel.

**H4/H4W:** Users can answer calls by picking up the handset or pressing the speakerphone button to open the speakerphone channel.

#### 5.2.2 Auto Answer

Users can enable the auto-answer feature on the web page, allowing the phone to automatically answer incoming calls. Auto-answer can be enabled separately for each line. When disabled, the phone will ring upon an incoming call, and it won't automatically answer after a timeout.

#### **Auto Answer Enabled For Line:**

Log in to the device's web page, go to [Line]>>[SIP]>>[Basic Settings], check [Enable Auto Answering]. After setting [Auto Answering Delay], click [Apply].

#### **Auto Answer Enabled For IP Call:**

Log in to the device's web page, go to [Line]>>[Basic Settings]>>[SIP P2P Settings]. Check [Enable Auto Answering], set the mode and auto-answer time, then click [Apply].



#### 5.3 End The Call

- H4/H4W: After the user ends the call, they can place the handset back on the phone
  or press the speakerphone button to close the voice channel and end the call.
- H6W: After the user ends the call, they can place the handset back on the phone, press the speakerphone button to close the voice channel, or press [End] to end the call.

#### **5.4** Mute

Users can enable mute mode during a call, which disables the device's microphone, preventing the local sound from being transmitted to the other party. Typically, mute mode automatically disables upon the call's termination. Alternatively, users can activate the mute function on the standby page, which automatically mutes the ringtone during incoming calls.

#### 5.4.1 Mute The Call

- Press the [Mute] button during a call to mute the microphone.
- Unmute the call: press the [Mute] button on the device again.

# 5.4.2 Mute When Ringing

#### H6W:

- Turn on mute ringing: While the phone is in standby mode, press the [Mute] button. The phone's top right corner will display the mute icon. When there's an incoming call, the phone will display the call screen but won't ring.
- To cancel the silent mode for incoming calls: On standby or incoming call interface,
   press the [Mute] button , volume up button , or volume down button ...



again to cancel the ringtone mute. After cancellation, the mute icon will no longer be displayed in the upper right corner.

#### H4/H4W:

- Turn on mute ringing: When the phone is in standby mode, press the **[Mute]** button will silence the ringer for incoming calls, and the power indicator light will flash slowly in red when there is an incoming call.
- To cancel the silent mode for incoming calls: While the phone is in standby mode, press the [Mute] button, volume up button, or volume down button again to cancel the ringtone mute.

# 5.5 Reject The Call

### 5.5.1 Manually Reject (H6W)

When receiving an incoming call, you can press the **[Reject]** button to manually reject the incoming call.

#### 5.5.2 **DND**

Users can activate the "Do Not Disturb" (DND) feature on the web to reject incoming calls.

#### DND can be configured through the web settings:

Log in to the device's web page, go to [Phone settings]>>[Features]>>[DND settings]. Select line or phone to enable the DND function. You can also schedule DND to automatically activate and deactivate at specific times. And then click [Apply] to activate.



# **6** Advance Function

#### 6.1 MCAST

The MCAST function allows for easy and convenient broadcasting of announcements to every member of the multicast group. By setting the MCAST on the phone, multicast RTP streams can be sent to pre-configured multicast addresses. By configuring the listening multicast address on the phone, it can listen to and play RTP streams sent to that multicast address.

Users can configure the multicast listening address and port through the web page [Phone settings]>>[MCAST].

#### **Configuration parameters:**

Parameters	Description	
Priority	Defines the priority in the current call, with 1 being the	
	highest priority and 10 the lowest.	
Enable Page Priority	Regardless of which of the two multicast groups is called in	
	first, the device will receive the higher priority multicast first.	
Enable Prio Chan When enabled, the same port and channel can only be		
	connected. Channel 24 is the priority channel, higher than	
	1-23; channel 0 means not to use the channel.	
Enable Emer Chan	When enabled, channel 25 has the highest priority.	
Name	Set the multicast name.	
Host:port	Set the multicast server address and port.	
Channel	0-25 (24: Priority Channel, 25: Emergency Channel).	

#### **MCAST Dynamic:**

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.



# 6.2 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.

Users can set up a SIP Hotspot on the web page of [Line]>>[SIP Hotspot].

#### **Configuration parameters:**

Parameters	Description	
Enable Hotspot	Enable or disable hotspot	
	Selecting 'SIP Hotspot' indicates that this device exists as a SIP	
Mode	Hotspot.	
	Selecting 'Client' indicates that this device exists as a client."	
	The monitoring type can be broadcast or multicast. If you want to	
	restrict broadcast packets in the network, you can choose	
Manitar Tyra	multicast. The type of monitoring on the server side and the client	
Monitor Type	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.	
	The multicast address used by the client and server when the	
Manitar Address	monitoring type is multicast. If broadcasting is used, this address	
Monitor 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.	
Lacal Dart	Fill in a custom hotspot communication port. The server and client	
Local Port	ports need to be consistent.	
	Fill in the name of the SIP hotspot. This configuration is used to	
Name	identify different hotspots on the network to avoid connection	
	conflicts.	



Line Settings	Sets	whether	to	enable	the	SIP	hotspot	function	on	the
	corre	sponding (	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.

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.

# 6.3 Message

### 6.3.1 SMS (H6W)

H6W only supports receiving messages and not sending them. When a text message is received, a popup will appear on the screen to indicate unread messages. Clicking 'Confirm' will navigate to the message interface, where users can view the SMS content under LCD [Message]>>[SMS]>>[Inbox].

#### 6.3.2 MWI

If the service of the lines supports voice message feature, when the user is not available to answer the call, the caller can leave a voice message on the server to the user.

#### **Voicemail Prompt:**

H6W: When the called H6W receives a voicemail, a popup notification will appear on the standby screen interface indicating that there is a new voicemail. Clicking "OK" will navigate to the **[Voice Message]** interface.



H4/H4W: Users can configure the power LED display status when receiving voicemails via the web page [Phone settings]>>[Features]>>[Power LED].

#### Listen to voicemail:

To listen to voicemail, you must enable voicemail for that line and fill in the voicemail retrieval number. Users can enable and fill in this information on the web page[Line]>>[SIP]>>[Basic Settings]>>[Voice Messege Number].

H6W: After navigating to the [Voice Message] interface and clicking the play button, it will directly dial the voicemail number. Users can then listen to the voicemail by following the voice prompts to enter the PIN code.

H4/H4W: Users can configure the voicemail function key on the web page[Function Key]>>[DSS Key]. Select "Key Event" as the type and "Voice Mail" as the subtype. After configuration, users can press the voicemail function key to call the voicemail number, follow the prompts to enter the PIN code, and listen to their voicemail.



# 7 Device Settings

#### 7.1 Time Plan

The Time Plan feature allows users to set specific actions to occur at either a particular time or within a period. A time point triggers an action at a specific moment, while a period triggers an action during a specified duration.

Users can access this functionality through the web page under [Phone Settings] >> [Time Plan]. They can define a Name, Type, Repetition Period, along with the effective date and time, then click 'Add'. Once configured, the device will execute the designated action at the specified times.

#### Parameters:

Parameters	Description	
Name	Enter a defined action name	
Туре	Timing reboot, timing upgrade	
	Do not repeat: execute once within the set time range	
Popotition	Daily: Perform this operation in the same time frame every day	
Repetition	Weekly: Do this in the time frame of the day of the week	
	Monthly: the time frame of the month to perform this operation	
Start date	Effective date	
End date	End date	
Effective Time	Set the time period for execution	



If there's an ongoing call within the set time frame, skip and do not execute the restart or upgrade operation.



### 7.2 Action Plan

Action Plan application: a technical implementation defined and designed by Fanvil for remote control and behavior linkage between Fanvil terminal equipment and other equipment. That is, when an event occurson the Fanvil terminal, the terminal can perform an action, and this action is completed according to a Plan rule.

#### Setting method:

Users can visit the website **[Line]** >> **[Action Plan]** to configure action plan rules. After the setting is complete, the configuration is assigned to the corresponding device and updated, and the corresponding terminal will perform the corresponding action when the event occurs.

#### Parameter description:

Parameter	Description
	Action when the number configuration rule is triggered. Supported
	types are:
Action	Mute: The device automatically mute when the rule is triggered.
	Answer: The device automatically answers the call when the rule is
	triggered.
Niversia	The dialing number corresponding to each Action Plan; supports the
Number	same number expression as the Dial Plan.
	Types of Time Periods When Rules are Triggered, including:
Туре	Early: trigger execution before call establishment.
	Connected: trigger execution after call establishment.
Line	The selected rule corresponds to the matching SIP line.
	Corresponding Handling Methods for Configured Rules:
Direction	Both: Triggered for both inbound and outbound calls;
	Outgoing call: Triggered for outbound calls;
	Incoming call: Triggered for inbound calls.



#### 7.3 Maintenance

# 7.3.1 Configurations

Users with administrator privileges can view, export, or import the phone configuration, or restore the phone to factory Settings.

#### **■** Export Configurations

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

#### **■** Import Configurations

Import the configuration file of Settings.

#### ■ Clear Configuration

Select the modules to be cleared in the configuration file.

SIP: Account-related configurations

AUTOPROVISION: Automatic upgrade-related configurations

TR069: TR069-related configurations

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

DSSkey: DSSkey configurations

Basic Network: Basic network settings

#### ■ Clear User Data

Select the local data tables to be cleared, default is all selected.

#### Reset Device

All device data will be cleared, including configurations and database tables.

# 7.3.2 Upgrade

#### 7.3.2.1 Web Upgrade

Upgrade the device software version by upgrading to the new version through the web page. Once the upgrade is completed, the device will automatically restart and update to the new version.



[System]>>[Upgrade]>>[Software Upgrade], select the file, choose the version, then click "upgrade".

#### 7.3.2.2 Online Upgrade

Through online upgrading, devices can be upgraded.

#### Configuration for online upgrade by the administrator on the web page:

Access the web page [System]>>[Upgrade]>>[Upgrade Server], configure the
upgrade server, and the update cycle, etc. Place the upgrade TXT file and software
on the corresponding server. When the device detects that the software version
number on the server is different from its own software version number, it will prompt
for an upgrade

#### Configuration parameter description:

Parameter	Description	
Upgrade Server		
	Check enable automatic upgrade, and the device can detect	
Enable Auto Upgrade	the txt version information and available versions in the	
	HTTP server.	
Ungrado Sarvor Address 1	Fill in the available primary upgrade server (HTTP server)	
Upgrade Server Address1	address.	
	Fill in the address of the available backup upgrade server	
Upgrade Server Address2	(HTTP server). When the primary server is unavailable,	
	request the backup server.	
	The web page starts to automatically detect the upgrade and	
Upgrade Interval	configure the interval. If the server has a new version, the	
	device will prompt for the upgrade at the interval.	
Software Version informa	tion	
Current Software Version	Displays the current device software version number.	
Server software version Displays the server software version number.		
	When there is a corresponding TXT file and version on the	
[Upgrade] button	server side, the [Upgrade] button changes from grayed out	
	to available. Click <b>[Upgrade]</b> to choose whether to upgrade.	



	When the server has the corresponding TXT file and version,
New version description	the and version information in txt will be displayed under the
	new version description information.

# 7.3.3 Auto Provision

Web page: go to [System]>>[Auto Provision].

Devices support SIP PnP, DHCP options, Static provision, TR069. If all of the 4 methods are enabled, the priority from high to low as below:

# PNP>DHCP>TR069> Static Provisioning

Transferring protocol: FTP, TFTP, HTTP, HTTPS

Parameter	Description
Basic Settings	
CPE Serial Number	Display the device SN.
	Configure the user name of FTP server; TFTP protocol does
Authentication Name	not need to be configured; if you use FTP protocol to
Authentication Name	download, if you do not fill in here, the default user of FTP is
	anonymous.
Authentication	Configure the password corresponding to the FTP server
Password	user.
Configuration File	If the device configuration file is encrypted , user should add
Encryption Key	the encryption key here.
General Configuration	If the common configuration file is encrypted, user should
File Encryption Key	add the encryption key here.
Download Fail Check	The default value is 1. If the download of the configuration
Times	fails, it will be re-downloaded 1 time.
Save Auto Provision	Configure whether to save the automatic update
Information	information.



Download		
CommonConfig	Whether phone will download the common configuration file.	
enabled		
	If the terminal matches the configuration file content through	
Get the digest from the	Digest verification, then whenever the configuration on the	
server before initiating	server is modified, or if the configuration on the terminal	
the download	does not match the one on the server, the terminal will also	
	initiate an update download.	
DHCP Option Setting	<u>'</u>	
	Configure DHCP options to support automatic deployment	
	application parameters using three methods: DHCP custom	
	option, DHCP option 66, and DHCP option 43. When	
Custom Option Value	obtaining automatic deployment application parameters via	
	DHCP, users can choose any one of these methods, with	
	the terminal defaulting to DHCP option disable.	
Custom	Custom Option value is allowed from 128 to 254. The option	
5 11 DUOD 0 ()	value must be same as server define.	
Enable DHCP Option	Use Option120 to get the SIP server address from DHCP	
120	server.	
DHCPv6 Option Setting	g 	
	Configure DHCP options to support obtaining automatic	
	deployment application parameters using three methods:	
Custom Option Value	DHCP custom option, DHCP option 66, and DHCP option	
Custom Option value	43. When obtaining automatic deployment application	
	parameters via DHCP, users can choose any one of these	
	methods, with the terminal defaulting to DHCP option 66.	
0	Custom Option value is allowed from 128 to 254. The option	
Custom	value must be same as server define.	
SIP Plug And Play		



Enable SIP PnP  Browner enable PnP or not. If PnP is enabled, pnone will send a SIP SUBSCRIBE message with broadcast method. Any server can support the feature will respond and send a SIP Notify with URL to phone. Phone could get the configuration file with the URL.  Server Address  Configure the PnP server.  Server Port  Configure PnP port.  Transport Protocol  Configure PnP protocol.  Static Provisioning Server  Configure the address of the FTP server. The server address can be in IP format, such as 192.168.1.1, or in domain name format, such as ftp.domain.com. Additionally, the system supports the functionality of setting subdirectories for the server. For example, the system can configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configuration File Name  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Provision Mode:  1. Disabled.  2. Update after reboot.  3. Update after reboot.  3. Update after interval.		Whather enable DpD or not If DpD is smalled inham will
Enable SIP PnP Any server can support the feature will respond and send a SIP Notify with URL to phone. Phone could get the configuration file with the URL.  Server Address Configure the PnP server.  Server Port Configure PnP port.  Transport Protocol Configure PnP protocol.  Static Provisioning Server  Configure the address of the FTP server. The server address can be in IP format, such as 192.168.1.1, or in domain name format, such as ftp.domain.com. Additionally, the system supports the functionality of setting subdirectories for the server. For example, the system can configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configuration File Name  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Transferring protocol type , supports FTP, TFTP, HTTP and HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.	Enable SIP PnP	Whether enable PnP or not. If PnP is enabled, phone will
SIP Notify with URL to phone. Phone could get the configuration file with the URL.  Server Address Configure the PnP server.  Server Port Configure PnP port.  Transport Protocol Configure PnP protocol.  Static Provisioning Server  Configure the address of the FTP server. The server address can be in IP format, such as 192.168.1.1, or in domain name format, such as ftp.domain.com. Additionally, the system supports the functionality of setting subdirectories for the server. For example, the system can configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configuration File Name  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.		· ·
configuration file with the URL.  Server Address Configure the PnP server.  Server Port Configure PnP port.  Transport Protocol Configure PnP protocol.  Static Provisioning Server  Configure the address of the FTP server. The server address can be in IP format, such as 192.168.1.1, or in domain name format, such as ftp.domain.com. Additionally, the system supports the functionality of setting subdirectories for the server. For example, the system can configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configuration File Name  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Transferring protocol type , supports FTP.TFTP.HTTP and HTTPS.  Provision Mode:  1. Disabled.  2. Update after reboot.  3. Update after interval.		
Server Address Configure the PnP server.  Server Port Configure PnP port.  Transport Protocol Configure PnP protocol.  Static Provisioning Server  Configure the address of the FTP server. The server address can be in IP format, such as 192.168.1.1, or in domain name format, such as ftp.domain.com. Additionally, the system supports the functionality of setting subdirectories for the server. For example, the system can configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configuration File Name  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS.  Provision Mode:  1. Disabled.  2. Update after reboot.  3. Update after interval.		SIP Notify with URL to phone. Phone could get the
Server Port Configure PnP port.  Transport Protocol Configure PnP protocol.  Static Provisioning Server  Configure the address of the FTP server. The server address can be in IP format, such as 192.168.1.1, or in domain name format, such as ftp.domain.com. Additionally, the system supports the functionality of setting subdirectories for the server. For example, the system can configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configuration File Name  Configuration File Name  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS.  Provision Mode:  1. Disabled.  2. Update after reboot.  3. Update after interval.		configuration file with the URL.
Transport Protocol  Static Provisioning Server  Configure the address of the FTP server. The server address can be in IP format, such as 192.168.1.1, or in domain name format, such as ftp.domain.com. Additionally, the system supports the functionality of setting subdirectories for the server. For example, the system can configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configuration File Name  Configuration File Name  Configuration File Name  Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS.  Protocol Type  Update Mode  Update Mode  Update after interval.	Server Address	Configure the PnP server.
Configure the address of the FTP server. The server address can be in IP format, such as 192.168.1.1, or in domain name format, such as ftp.domain.com. Additionally, the system supports the functionality of setting subdirectories for the server. For example, the system can configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS.  Provision Mode:  1. Disabled.  2. Update after reboot.  3. Update after interval.	Server Port	Configure PnP port.
Configure the address of the FTP server. The server address can be in IP format, such as 192.168.1.1, or in domain name format, such as ftp.domain.com. Additionally, the system supports the functionality of setting subdirectories for the server. For example, the system can configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configuration File Name  Configuration File Name  Configuration File Name  Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS.  Provision Mode:  1. Disabled.  2. Update after reboot.  3. Update after interval.	Transport Protocol	Configure PnP protocol.
address can be in IP format, such as 192.168.1.1, or in domain name format, such as ftp.domain.com. Additionally, the system supports the functionality of setting subdirectories for the server. For example, the system can configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a """ at the end.  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Transferring protocol type, supports FTP, TFTP, HTTP and HTTPS.  Provision Mode:  1. Disabled.  2. Update after reboot.  3. Update after interval.	Static Provisioning Se	rver
domain name format, such as ftp.domain.com. Additionally, the system supports the functionality of setting subdirectories for the server. For example, the system can configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Update Mode  1. Disabled. 2. Update after reboot. 3. Update after interval.		Configure the address of the FTP server. The server
the system supports the functionality of setting subdirectories for the server. For example, the system can configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.		address can be in IP format, such as 192.168.1.1, or in
Server Address  Server Address  configure the server address in the form of 192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Update Mode  Update Mode  1. Disabled. 2. Update after reboot. 3. Update after interval.		domain name format, such as ftp.domain.com. Additionally,
Configuration File Name  Accompany on the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS.  Provision Mode:  1. Disabled.  2. Update after reboot.  3. Update after interval.		the system supports the functionality of setting
192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configuration File Name  Configuration File Field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.		subdirectories for the server. For example, the system can
means that the accessed server address is either 192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.	Server Address	configure the server address in the form of
192.168.1.1 or ftp.domain.com, and the file storage path is under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configure the name of the configuration file to be upgraded. Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.		192.168.1.1/ftp/Config/ or ftp.domain.com/ftp/config. This
under /ftp/Config/. The subdirectory can have or not have a "/" at the end.  Configure the name of the configuration file to be upgraded.  Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Provision Mode:  1. Disabled.  2. Update after reboot.  3. Update after interval.		means that the accessed server address is either
Configuration File Name  Configuration File Name  Configuration File Name  Configuration File Name  Configuration File Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Transferring protocol type, supports FTP, TFTP, HTTP and HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.		192.168.1.1 or ftp.domain.com, and the file storage path is
Configuration File Name  Configuration File Name  Configuration File Name  Configuration File Name  Configuration File Signature  Field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Transferring protocol type, supports FTP, TFTP, HTTP and HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.		under /ftp/Config/. The subdirectory can have or not have a
Typically, when using the automatic upgrade feature, this field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Transferring protocol type, supports FTP, TFTP, HTTP and HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.		"/" at the end.
Configuration File Name  field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Transferring protocol type, supports FTP, TFTP, HTTP and HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.		Configure the name of the configuration file to be upgraded.
field is left blank. In this case, the device will use its own MAC address as the filename to retrieve the file from the server.  Protocol Type  Transferring protocol type, supports FTP, TFTP, HTTP and HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.	0 6 4 51	Typically, when using the automatic upgrade feature, this
MAC address as the filename to retrieve the file from the server.  Protocol Type  Transferring protocol type, supports FTP、TFTP、HTTP and HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.		field is left blank. In this case, the device will use its own
Protocol Type  Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.	Name	MAC address as the filename to retrieve the file from the
Protocol Type HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.		server.
HTTPS.  Provision Mode:  1. Disabled. 2. Update after reboot. 3. Update after interval.	D / 17	Transferring protocol type , supports FTP、TFTP、HTTP and
Update Mode  1. Disabled. 2. Update after reboot. 3. Update after interval.	Protocol Type	HTTPS.
Update Mode  2. Update after reboot.  3. Update after interval.		Provision Mode:
Update after reboot.  3. Update after interval.		1. Disabled.
	Uраате Моdе	2. Update after reboot.
Auto provision Now		3. Update after interval.
	Auto provision Now	



TR069		
Enable TR069	Enable TR069 after selection.	
1000	Select ACS server type. The terminal currently supports two	
ACS Server Type	types of ACS servers: telecom and regular.	
ACS Server URL	ACS server address.	
ACS User	ACS server authentication username.	
ACS Password	ACS server authentication password.	
Enable TR069 Warning	If TR069 is enabled, there will be a prompt tone when	
Tone	connecting.	
	If automatic login is selected, subsequent device restarts will	
TLS Version	not prompt for entering the username and password.	
TES VEISION	Instead, the device will use the previously entered	
	username and password to connect to the ACS server.	
STUN Server Address	Enter the STUN address.	
STUN Enable	Enable the STUN.	



# **8 Screen Settings**

# 8.1 Time Settings

Users can set the time and date through both the device's web interface.

# Web Interface for Setting Time/Date:

Users can set the device's time and date by going to the web page [Phone Settings] >> [Time/Date].

#### Parameters:

Parameter	Description
Network Time Server Settings	
Time Synchronized via SNTP	Enable time-sync through SNTP protocol.
Time Synchronized via DHCPv6	Enable time-sync through DHCPv6 protocol.
Time Synchronized via DHCP	Enable time-sync through DHCP protocol.
Primary Time Server	Set primary time server address.
Secondary Time Server	Set secondary time server address, when primary
	server is not 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.
Date Format	
12-Hour Clock	Set the time display in 12-hour mode.
Date Format	Select the time/date display format.
Daylight Saving Time Settings	
Location	Choose your location, phone will set daylight saving
	time automatically based on the location.
DST Set Type	The daylight saving time rule based on specific
	dates or relative rule dates. In automatic mode, it is
	displayed as read-only.



Manual Time Settings	You can set your time manually.
Hour End	The DST end hour.
Day End	The DST end day.
Weekday End	The DST end weekday.
Week End	The DST end week.
Month End	The DST end month.
Hour Start	The DST start hour.
Day Start	The DST start day.
Weekday Start	The DST start weekday.
Week Start	The DST start week.
Month Start	The DST start month.
	time starts/ends.
Correction Value	The time adjustment applied when daylight saving

# 8.2 Screen Settings (Only H6W)

# 8.2.1 Brightness and Backlight

Users can adjust brightness and backlight settings through the device menu or via a web interface. The device enters backlight mode after a set inactivity timeout.

#### **Device Interface Settings for Brightness and Backlight:**

Enter the device menu interface [Basic]>>[Screen Setting] to make relevant adjustments.

#### Web Interface Settings for Screen:

Enter the device web interface [Phone settings]>>[Advanced] to make relevant configurations.

#### **Brightness and Backlight Parameters:**

- Backlight Active Level: Set the screen brightness level during active use.
- Backlight Inactive Level: Set the screen brightness level when the device is idle.

Backlight Time: Set the timeout duration before the device enters backlight mode.

8.2.2 **Screen Saver** 

Users can enable screen savers through the device menu or the web interface, which

activates after a set period of inactivity.

**Device Interface Settings for Screen Saver:** 

Users can configure the device screensaver via the device menu [Basic]>>[Screen

Setting].

Web Interface Settings for Screen Saver

Users can configure the device screensaver via the web page [Phone

settings]>>[Advanced]>>[Screen Configuration].

Web Interface Settings for screensaver image scrolling:

Users can configure the screensaver image scrolling effect via the web page

[System]>>[Upgrade]>>[Screensaver Upgrade].

Parameters:

**Custom screensaver:** 

Screen saver: Enable the screen saver function

Timeout to screen saver: Sets the timeout period for entering the screensaver. The

value can be customized

**Custom screensaver image scrolling:** 

Image specifications: bmp

Resolution: 320\*480

Bit depth: 24-bit

Customize image scrolling time: Set the time for image scrolling, with support for

customization through the web page.

Scrolling Time: 20s



# 8.2.3 UI Settings

#### **8.2.3.1** Boot Logo

To customize the startup logo displayed when the device powers on, you can update the boot logo image via the web interface. Navigate to [System]>>[Upgrade]>>[Boot Logo Upgrade] to upload a custom boot logo image.

#### **Image Format Specifications:**

Supported Format: JPG

• Resolution: 320\*480

Bit Depth: 24-bit

### 8.2.3.2 Background

Access the device web page [System]>>[Upgrade]>>[Background Upgrade] to upgrade the custom standby background image.

#### Image format:

Supports BMP format

• Resolution: 320\*480

• Bit depth: 24-bit

#### 8.2.3.3 DSS Key Icon Upgrade

Access the device web page [System]>>[Upgrade]>>[DSS Key Upgrade] to upgrade custom DSS Key icons.

#### Image format:

Supports PNG format

Resolution: 48\*48

• Bit depth: 32-bit

• Key naming: custom ICON DSS X (X represents the order of DSS KEY 1-5)



#### Note:

To upgrade the DSS KEY icons, the image format and button naming requirements must be followed; otherwise, the upgrade will fail.

# 8.3 Audio Settings

### 8.3.1 Volume Setting

Users can adjust the device volume through both the web page and the device menu (only available on H6W).

#### Device interface for setting volume(Only H6W):

On the H6W standby interface, input "#\*107" to enter the device menu interface.
 Then, access [Basic]>>[Voice Volume] to adjust the hands-free and handset volume settings.

#### Web interface for setting volume:

Users can set the device's volume through the web page [Phone Settings]>>[Media Settings]>>[Media Settings]. After setting, click [Apply] to save.

#### **Volume parameters:**

- Handset volume: Adjust the volume of the handset receiver.
- Speakerphone ring volume: Adjust the volume of the ringtone when using the hands-free mode.
- Handset/Hands-free signaltone volume: Adjust the volume of incoming and outgoing signal tones.
- Speakerphone volume: Set the volume for call audio.

### 8.3.2 Tone Setting

Users can set call alerts, call prompt tones, ringback tones, and reminder tones via the



## web page [Phone Settings]>>[Features]>>[Tone Settings].

Parameters	Description
Play DTMF tones during outgoing calls	When users press the device's numeric keys during dialing, there will be DTMF tone prompts.
Play talking DTMF tone	When the user presses the device's numeric keys during a call, DTMF prompt tones will be heard. This feature is enabled by default.
Play startup tone	A tone when the device is powered on
Ring Back Tone	Closed: Disables the ringback tone for calls.  Default: Uses the default ringback tone.  Supports custom ringback tones, which can be set by upgrading ringtone files under [System] >> [Upgrade] >> [Ring Upgrade], and then selecting the custom option for the ringback tone.

# 8.3.3 Ring Setting

### Set ring on the device interface (H6W only):

On the H6W standby interface, input "#\*107" to enter the device menu interface. Then, access [Basic] >> [Ring] to set the ring type.

## Web interface setting:

Users can set the device ringtone type through the web page [Device Settings] >> [Media Settings] >> [Media Settings]. After setting, press [Apply] to save.

# 8.3.4 Upload Ring

Users can upgrade ringtone files through the web page [System] >> [Upgrade] >>



[Ring Upgrade]. Once upgraded, the new ringtones will be displayed in the ringtone list.

# Ring file format:

- Supports WAV and MP3 formats.
- The maximum size for a single file is 1M

# 8.4 Greeting Words Setting

Access the H6W web page >> [Phone settings] >> [Advanced] >> [Greeting Words], edit the welcome message, then press [Apply] to save.



# 9 Function Key Settings

# 9.1 DSS Key Settings

#### **DSS Key Settings**

Users can configure DSS Key through the web page.

### Web Interface Configuration of DSS Key:

Access the device web page [Function Key]>>[DSS Key], configure the DSSKEY buttons, select button type as Memory Key/Key Event/DTMF, assign the configuration to the corresponding device, and then update.

#### **DSS Key Usage:**

DSS keys support the following types:

#### Memory Keys

- ➤ Voice Mail: Display detailed information about the voicemail box for all SIP lines.
- > Speed Dial: Directly dial a preset number in standby mode.
- Intercom: Call a set number using intercom mode. If the recipient has intercom auto-answer enabled, they can automatically answer intercom calls.

### Key Event

- > Voice Mail: Display detailed information about the voicemail box for all SIP lines.
- Hold Call: Hold/resume the current call.
- Intercom: Open the dial pad and call out using intercom mode.
- Prefix: Configure a number prefix. When dialing, pressing this key automatically adds the prefix.
- > Deployment: This function depends on the Broadsoft server and is a method to record call information in call centers.
- > Retrace: This function is related to the Broadsoft server and sends call information during or after a call.
- Handfree: Enter hands-free dialing or switch to the hands-free channels



- Answer Key: Answer incoming calls.
- > End: End the current call.
- Private Hold: This feature is related to the Broadsoft server. During a call, if you don't want someone else to pick up the call, you can use the Private Hold button.
- **DTMF**: During a call, pressing this key sends pre-configured DTMF tones sequentially to the remote party.
- URL: Access a pre-configured remote URL, can be set for XML phonebook addresses, etc.
- MCAST Paging: After configuring a multicast address and audio code, pressing this key sends out a multicast
- Action URL: Users can use specific URL to perform basic call operations for multicast listening. Configure the multicast address. When there is RTP, pressing the button can listen to the multicast.
- XML Browser: Place the configured XML file on an HTTP/HTTPS server. Pressing the button will retrieve the XML content and execute corresponding actions based on the content.
- MCAST Listening: On the function key page, configure the MCAST listening by setting the multicast address and port, then save the settings. While in standby mode, pressing the configured function key will allow you to listen to the multicast.

# 9.2 Speed Dial Settings

### **Speed dial settings**

Users can configure speed dial (0-9 number keys) functionality through the webpage. After configuration, long-pressing a number key in standby mode will call the set number. The webpage keys 1-9 correspond to number keys 1-9, and 10 corresponds to the 0 key.

## Configure speed dial keys on the web page:

Visit the device web page, navigate to **[Function Key] >> [Speed Dial List]**, configure the speed dial keys, select "Memory Key" as the key type, assign the configuration to the respective device, and then update.



# Speed dial key usage

Speed dial keys support the following types:

- Memory Key
  - > Speed Dial: In standby mode, long-pressing the key will directly speed dial the preset number.



# 10 Network Settings

# **10.1 Ethernet Connection**

Users can set up wired networks through the device's web page and device menu. The device defaults to using IPv4 mode, and users can refer to the <u>Network Mode</u> to modify the network mode.

#### Setting up wired networks through the web interface:

Users can access the web page and go to [Network]>>[Basic]>>[IPv4 Settings] to configure the network type. Both static IP and DHCP configurations are supported.

#### Setting up wired networking through the device menu (H6W only):

Users can configure the network type via the device menu by going to **[System]>>[Network]**. Both static IP and DHCP configurations are supported.

#### To set a static IP:

When the network is set to use a static IP, the device allows you to manually configure the IP address.

- IP address: Enter the IP address you wish to set.
- Subnet mask: Set the subnet mask.
- Default gateway: Used for network interconnection, fill in according to your needs.
- Primary DNS Server: The IP address of the primary DNS server. The default is
   8.8.8.8, provided for free by Google.
- Secondary DNS Server: The IP address of the secondary DNS server.

## 10.2 Wireless Network

The device supports wireless internet connectivity. There are three ways to connect to Wi-Fi:

#### To connect through the device end (H6W):



- When the device is in default standby mode, go to the device menu [Basic]>>
   [WLAN], then click the switch to automatically search for available networks.
- Select the desired wireless network, enter the password when prompted, then click
   "OK" to link.

#### To connect through the web interface:

- Go to web, [Network]>>[Wi-Fi Settings], enable Wi-Fi
- After adding the Wi-Fi information, click on [Add] to save it.

You can see the connected Wi-Fi network in the Wi-Fi Info List.

#### Connect through another device:

#### Method 1:

- 1. Enter [Advanced Settings] on the W611W, then go to [Share Wi-Fi] to enable the Wi-Fi sharing function and set the office network SSID and password. At this point, the W611W functions as an AP.
- 2. Power on the H4W/H6W devices.
- 3. After powering up, the W611W will push the office network SSID and password to the H4W/H6W, enabling them to connect to the office network. Once the Wi-Fi connection is successful, the power indicator will flash quickly 5 times.

#### Method 2:

- 1. The user creates a Wi-Fi network with the SSID "WiFi-device-ssid" and the password "i<0%aY8+".
- 2. After powering on, the H4W/H6W devices will automatically connect to this Wi-Fi.
- 3. Once the connection is successful, the power indicator will flash quickly 5 times. The Wi-Fi information of the H4W/H6W can be modified through automatic deployment to connect to the office network.

## 10.3 Network Mode

There are three IP Mode options available: IPv4, IPv6, and IPv4 & IPv6.Users can set up wired network modes through the device's web page and device menu. Each network



mode supports configuring the network type, either using static IP or DHCP.

### Configure wired network modes through the web interface:

Users can access the web page and navigate to [Network]>>[Basic]>>[Network Mode] to set the network mode. Supported options include IPv4, IPv6, and IPv4 & IPv6.

# 10.4 Network Server

Users can configure network service types via the web page by navigating to [Network]>>[Service Port].

Parameter	Description	
Web Server Type	Changes take effect after a restart. You can choose the web	
	login to be either HTTP or HTTPS.	
Web Logon Timeout	Default is 15 minutes. After this time, the login session will	
	automatically expire, requiring a new login.	
Web Auto Login	After timeout, re-login to the web page does not require	
	entering username and password; it will automatically log in.	
HTTP Port	Default is 80. For enhanced system security, you can set a	
	port other than 80, such as 8080. Web login would be:	
	HTTP://IP:8080	
HTTPS Port	Default is 443, used in the same way as the HTTP port.	
RTP Port Range Start	The value range is from 1025 to 65535. The RTP port starts	
	from the initial value set, and for each call, the values of the	
	voice and video ports increase by 2.	
RTP Port Quantity	The number of calls	

# 10.5 VPN

### **Feature Description:**

Virtual Private Network (VPN) is a technology that allows devices to create a



connection to a server and become part of the server's network. The network transmission of the indoor unit can be connected through the VPN server routing function.

- For some users, particularly corporate users, it may be necessary to establish a VPN connection before activating line registration. The device supports two VPN modes: Layer 2 Tunneling Protocol (L2TP) and OpenVPN.
- Users must enable (or disable) and configure the VPN by logging into the web page.

#### **L2TP Setup Method:**

- Visit the web page >> [Network] >> [VPN], enable VPN mode, select "L2TP" as the
  type, and then fill in the L2TP server address, L2TP authentication username, and
  authentication password. Click "Apply" and the phone will attempt to connect to the
  L2TP server.
- When establishing a VPN connection, the VPN IP address will be displayed in the VPN status area. There may be delays in establishing the connection. Users need to refresh the page to update the status timely.
- Once the VPN configuration is successful, the indoor unit will automatically attempt
  to connect to the VPN each time unless disabled. Sometimes, if the VPN connection
  is not established promptly, users can try restarting the device and check if the VPN
  has been successfully established after the restart.



#### Note:

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

#### To set up an OpenVPN connection, follow these steps:

- Obtain authentication and configuration files from your OpenVPN service provider.
   The files required include:
  - OpenVPN Configuration file: client.ovpn
  - CA Root Certification:ca.crt
  - Client Certification:client.crt
  - Client Key:client.key



- Upload the files listed above to the Manager's webpage under [Network] >>[VPN],
   and select the OpenVPN files.
- Go to the device webpage, navigate to [Network]>>[VPN], enable VPN mode, choose "OpenVPN" as the type, and submit the information to activate the OpenVPN feature.

Like the L2TP connection, the system will attempt to establish a connection upon every system restart until manually disabled by the user.

# 10.6 VLAN

VLAN (Virtual Local Area Network) technology allows a LAN to be divided into multiple logical LANs—VLANs, each VLAN being a broadcast domain where broadcast messages are confined within a single VLAN.

Support is provided for acquiring VLAN ID via LLDP, CDP, DHCP, and manual settings.

#### **LLDP (Link Layer Discovery Protocol)**

- Access the device web page >> [Network] >> [Advanced] >> Link Layer Discovery
   Protocol, configure LLDP settings:
  - ➤ Enable LLDP: Activate the LLDP protocol function
  - > Packet Interval: Set the send interval for LLDP discovery packets
  - > Enable Learning Function: Enable LLDP to autonomously learn VLAN configuration settings

### **CDP (Cisco Discovery Protocol)**

- Access the device web page >> [Network] >> [Advanced] >> Cisco Discovery
   Protocol, configure CDP settings:
  - > Enable CDP: Activate the CDP protocol function
  - Packet Interval: Set the send interval for CDP discovery packets

#### **DHCP VLAN**

- Access the device web page >> [Network] >> [Advanced] >> DHCP VLAN
   Settings, configure DHCP VLAN parameters:
  - > Selection of Option Value: Enable or disable acquiring the VLAN ID through



## DHCP OPTION.

> DHCP Option VLAN: Set the OPTION value, 128-254, to obtain the VLAN value via DHCP.

## **Manual VLAN Setup**

- WAN VLAN Settings: Access the device web page >> [Network] >> [Advanced] >> [WAN VLAN Settings], manually configure the WAN VLAN ID:
  - ➤ Enable VLAN: Activate the manual setting of the WAN VLAN function.
  - > WAN VLAN ID: Set the WAN VLAN ID.



# 11 Security

# 11.1 Menu Password (H6W)

Users can customize the engineering password by accessing the web page [Phone Settings]>>[Advanced]>>[LCD Menu Password Settings] to set it (the initial password is #\*107).

After modifying the password, the new password must be used to access the device menu.

### 11.2 Web Password

#### Via device menu to modify the password:

Users can customize and change the web login password by accessing the web page [System]>>[Account]>>[User Management], then selecting the account for modification.

#### Via the user interface to modify the password:

Users can customize and change the web login password by clicking on the option in the upper-right corner

Default password is in use. Please change and then selecting

[Change Web Authentication Password] after logging into the web page.

#### Modify the web page password parameter settings:

- Old Password: Enter the web page login password.
- New Password: Enter the new login password you wish to set.
- Confirm Password: Please enter the new login password again for confirmation.

After the password is modified, the system will automatically log out, and you will need to enter the new password to log in again.

### 11.3 Web Filter

Users can configure to allow only machines from a specific IP subnet to access and manage the configuration of the device.

Navigate to the web page [Security]>>[Web Filter], add or delete allowed IP subnets.



Configure the starting and ending IP addresses within the specified range, then click [Add] to apply the changes. You can set a large subnet or add multiple subnets. When deleting, choose the starting IP of the subnet you want to remove from the dropdown menu, and then click [Delete] to apply the changes.

Enable Web Filtering: Configure to enable/disable web access filtering. Click the [Apply] button to apply the changes.



# (!) Note:

If accessing the device from a machine within the same subnet, do not configure the web filtering subnet to be outside of your own subnet; otherwise, you won't be able to log in to the webpage.

## 11.4 Mutual Authentication

The device supports mutual authentication using HTTPS and SIP TLS.

#### **Certificate Management**

- Device Certificate: Access the web page [Security]>>[Device Certificates] to set the device certificate parameters:
  - Device Certificates: Choose the device certificate to be used for authentication, which can be either the default certificate built into the device or a custom certificate uploaded by the user.
  - Import Certificates: Upload a custom device certificate.
  - Certificate File: Displays the list of uploaded custom device certificates. Only one custom device certificate can be uploaded. If no custom certificate is uploaded, the certificate list will be empty.
- Trusted Certificates: Access the web page [Security]>>[Trusted Certificates] to set the trusted certificates parameters:
  - Permission Certificate: Used to decide whether to enable server certificate verification.



- Common Name Validation: Option to enable or disable common name validation.
- > Certificate Module: Select the certificate module to be used, with the following options:
  - ♦ All Certificates: Trusts all certificate modules, including both the custom uploaded trusted certificate list and the built-in trusted list in the device.
  - ♦ Default Certificates: Trusts the built-in trusted certificate list of the device.
  - Custom Certificates: Trusts the custom uploaded trusted certificate list.
- Import Certificates: Used to import trusted certificates from the server side.
- ➤ Certificate List: Displays the list of custom uploaded server trusted certificates. When no custom certificate is uploaded, the certificate list will display as empty.

#### **Mutual Authentication Explanation**

- Upload the device certificate used to the server's trusted certificate list, ensuring that
  the server's trusted certificate list includes the device's certificate. Please confirm
  with the server administrator.
- Access the web page [Security]>>[Trusted Certificates]>>[Import Certificates]
  to upload the server's device certificate to the device's trusted certificate list and
  select the trusted certificate module to use.

## 11.5 Network Firewall

#### **Setting the Network Firewall**

Access the device's web page >> [Security] >> [Firewall], where you can set
whether to enable the inbound and outbound firewall. You can also define rules for
the inbound and outbound traffic through the firewall. These settings help prevent
malicious network access and restrict internal users from accessing certain external
network resources, thereby enhancing security.

### **Feature Description**

The firewall rule setting is a simple firewall module that supports two types of rules:



- inbound rules and outbound rules. Each rule is assigned a sequence number, with a maximum of 10 rules allowed for each type.
- Once the parameters are set, clicking [Add] will add a new item to the firewall's outbound rules.
- To delete an item, select the desired list and click **[Delete]** to remove the selected list.

### Parameters:

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	
Imputoutput	rule.	
Deny/Permit	To select whether the current rule configuration is disabled or	
Deny/Fermit	allowed.	
Protocol	There are four types of filtering protocols: TCP   UDP   ICMP.	
Filter port range	The range of filtered ports	
	Source address can be host address, network address, or all	
Src Address	addresses 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	
Dst Address	the full address 0.0.0.0; It can also be a network address similar to	
	*.*.*.0, such as: 192.168.1.0.	
	ls the source address mask. When configured as	
Src Mask	255.255.255.255, it 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	
Dst Mask	255.255.255.255, it means the specific host. When set as	
	255.255.255.0, it means that a network segment is filtered.	



# 12 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.

# 12.1 Get Device System Information

Users can obtain information through the device web page [System]>>[Information] or the device [Menu]>>[System]>>[Phone]options. The following information will be provided:

- 1. Device information (model, software and hardware version).
- 2. Account information.
- 3. Internet Information.

## 12.2 Reboot Device

Users can restart the device via the web interface or device menu.

#### **Device Interface Restart:**

Click on [Menu]>>[Settings]>>[Basic]>>[Reboot] and press [OK].

#### Web Interface Restart:

Click on [System]>>[Reboot Device] and press [OK].

### **Power Cycle Restart:**

Simply unplug the device and plug it back in to restart.

# 12.3 Device Factory Reset

Users can restore the device to default settings through the web interface or the device menu.

#### **Device Interface Restore:**

Click on[Menu]>>[System]>>[Factory Reset] and press [OK].



#### Web Interface Restore:

Click on [System]>>[Configurations]>>[Reset Device]>>[Reset] button and press [OK].

# 12.4 Screenshot (H6W)

If the device encounters issues, taking a screenshot can help technical support locate specific functions and understand the problem. To capture a screenshot, log in to the webpage, go to [System] >> [Tools] >> [Screenshot], click [Save BMP] (capture the problematic screen), save the image, and send it to technical support for issue resolution.

# 12.5 Network Packets Capture

In order to obtain the data packet of the device, the user needs to log in to the web page of the device, open the web page [System]>>[Tools]>>[LAN Packet Capture], and click the [Start] option in the "Network Packets Capture". If you are using a Wi-Fi network, click the [Start] option in [WLAN 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 web page 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.

# 12.6 Get Device Log

When encountering abnormal issues, log information can be helpful. The device supports exporting system logs and Wi-Fi logs.

#### Obtain system log:

To obtain the device's log information, users can log into the device's web page, navigate to [System]>>[Tools]>>[Syslog]:

- Set the system log to diagnostic mode.
- Enable log export and submit the changes.

Follow the steps where the issue occurs until it appears, then go to [System]>> [Tools]>>[Export Log] and click on export logs to save the logs locally for analysis or



send them to technical staff for problem resolution.

### Obtain Wi-Fi Log:

To obtain the device's Wi-Fi log information, users can log into the device's webpage, navigate to [System]>>[Tools]>>[WLAN Logs]

• Enable WLAN logging and submit the changes.

Follow the steps where the issue occurs until it manifests, then go to [System]>> [Tools]>>[WLAN Logs] and click on export logs to save the logs locally for analysis or send them to technical staff for problem resolution.

# 12.7 Common Trouble Cases

Trouble Case	Solution	
Device could not boot up	1. The device is powered by a power adapter. Please use a	
	compliant power adapter and check if the device is connected	
	to power.	
	2. The device is powered by PoE. Please use a compliant	
	PoE switch.	
Device could not register	Please check if the device is connected to the network.	
to a service provider	2. Verify if the device has an IP address. Check the system	
	information; if the IP address is 0.0.0.0, it indicates that	
	the device has not obtained an IP address. Ensure that	
	the network configuration is correct.	
	3. If the network connection is fine, recheck your cable	
	configuration. If all configurations are correct, contact your	
	service provider for support, or follow the instructions in	
	13.5 Network Data Capture to obtain network packets for	
	analysis. Send them to the support email to help diagnose	
	the issue.	



# 13 Appendix Table

# 13.1 Appendix I - Function Icon

Icon	Description
I <b>《</b> 》)	Hands-free calling
₩.	Microphone mute
4-	Decrease volume
14+	Increase volume
	Front desk service
j <u>r</u> Π	Front desk service
<b>\$</b>	Front desk service
Çsœ	Emergency call
$\bowtie$	Voice mailbox

# 13.2 Appendix II - Keyboard Character Lookup Table

lcon	Input method	Keypad	Single character input per key press
123	Number	1	1
		2	2
		3	3
		4	4
		5	5
		6	6

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		7	7
		8	8
		9	9
		O	0
		*	*.+
		#	#
		1	@:;()<>
		2	a b c
-1	Lowercase	3	d e f
		4	g h i
		5	j k 1
		6	m n o
abc	letters	7	pqrs
		8	t u v
		9	w x y z
		O	(space)
		*	.,*/+-:_=
		#	# ^!&\$%
ABC	Uppercase	1	@:;()<>



	letters	2	АВС
			D E F
		4	G H I
		5	ЈК Ц
		6	M N O
		7	P Q R S
		8	T U V
		9	WZYX
		O	(space)
		*	.,*/+-:_=
		#	# ^!&\$%
		1	1
2 D	Numeric/Alphanu meric keypad	2	2 a b c A B C
		3	3 d e f D E F
		4	4 g h I G H I
		5	5 j k l J K L
		6	6 m n o M N O
		7	7 pqrsPQRS
		8	8 t u v T U V



9	9 w z y x W Z Y X
O	0
*	.,*/+-:_=
Ħ	# ^!&\$%

# 13.3 Appendix III - Menu Icon

Icon	Description
Status	Check the status of Network, Phone and Account.
Message	Check Voice Message and SMS.
Basic	Set personal preference settings.
System	Account settings, network settings, and factory reset.

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