User Manual Of IP Waterproof Telephone JWAT909-910

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1. Overview

JWAT909 / 910 IP waterproof telephone product is a high-tech product that used for subway, highway, power plant, petrol station, terminal, steel company which have special requirements for moisture, fire, dust, and frost. It is a fully digital network type.The core part of the telephone adopts the mature Voip solution with stable and reliable performance. It is a high-tech product that combines the actual needs of dangerous and high-noise places. It is an indispensable and extremely ideal industrial communication product which is widely used in petrochemical, oil terminal, oil refining and natural gas extraction and other flammable Explosive, humid, dusty, corrosive and strong noise, etc.

1.1 Product Features

1.1.1 JWAT909 / 910 IP waterproof telephone case is made of aluminum alloy die-casting, which has good impact strength and protection performance. The surface high temperature powder is not electrostatically sprayed to prevent static electricity. Full keyboard input, you can not only directly enter the IP number of the other party to make a call, but also set the abbreviated dial number through WEB.Besides, you can also set a shortcut key to speed dial. After high and low temperature testing, screening, procurement and production, the circuit has undergone strict explosion-proof treatment and protective treatment, which has further improved the environmental adaptability of the machine. The phone uses an anti-noise handle to make calls clearer in high-noise environments.

1.2 Application

1.2.1 This Weatherproof Telephone Is Very Popular For subways, highways, power plants, petrol stations, docks, steel companies and other environments that have special requirements for moisture, fire, noise, dust and frost.

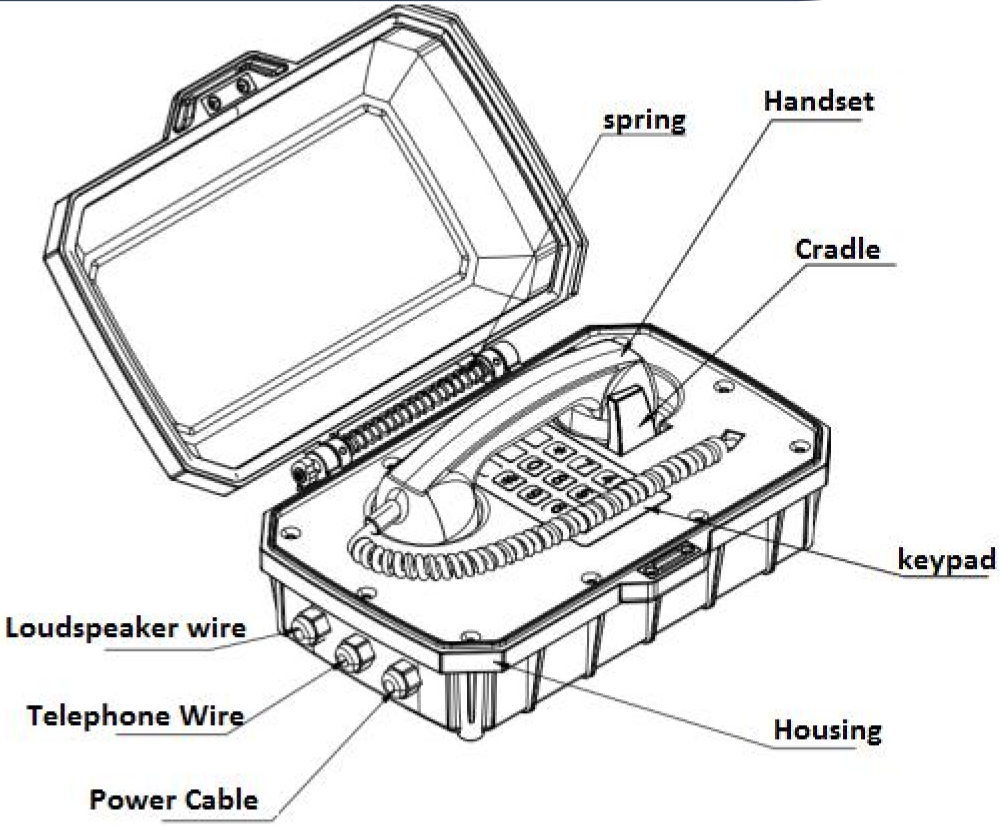
1.2.2 Ambient Temperature：-40℉～+140℉

1.2.3Relative Humidity：≤95％（ room temperature）

1.2.4Atmospheric Pressure：80～110KPa

2. Product Structure Characteristics

2.1 The waterproof phone is composed of a housing (including a die-cast aluminum case, a stainless steel keyboard, a die-cast zinc cradle, and a PC handset) and a double-sided integrated circuit mainboard (as below, If choose the type without speaker ,will don’t have speaker cable .



3. Main technical parameters

3.1 Power supply: AC110-240V or POE

3.2 Network communication protocol: SIP 2.0 (RFC-3261).

3.3 WAN: 10 / 100BASE-TX s Auto-MDIX, RJ-45

3.4 Supported protocols: RTP

3.5 G.729, G.723, G.711, G.722, G.726

3.6 Frequency response: 300 ～ 3400 Hz

3.7 Protection level: IP68

3.8 Specification:13.3" *8.7" *5.6"

3.9 Installation: Wall-mounted

3.10 Net weight: 14LBS

4. How to Use

4.1 How to make a call

1. JWAT909 / 910: After picking up the handset, dial the number on the keypad. After the other party is connected, the two parties can talk normally, and then hang up the handset after the call. During the call, the volume of the handset can be adjusted according to the environment.

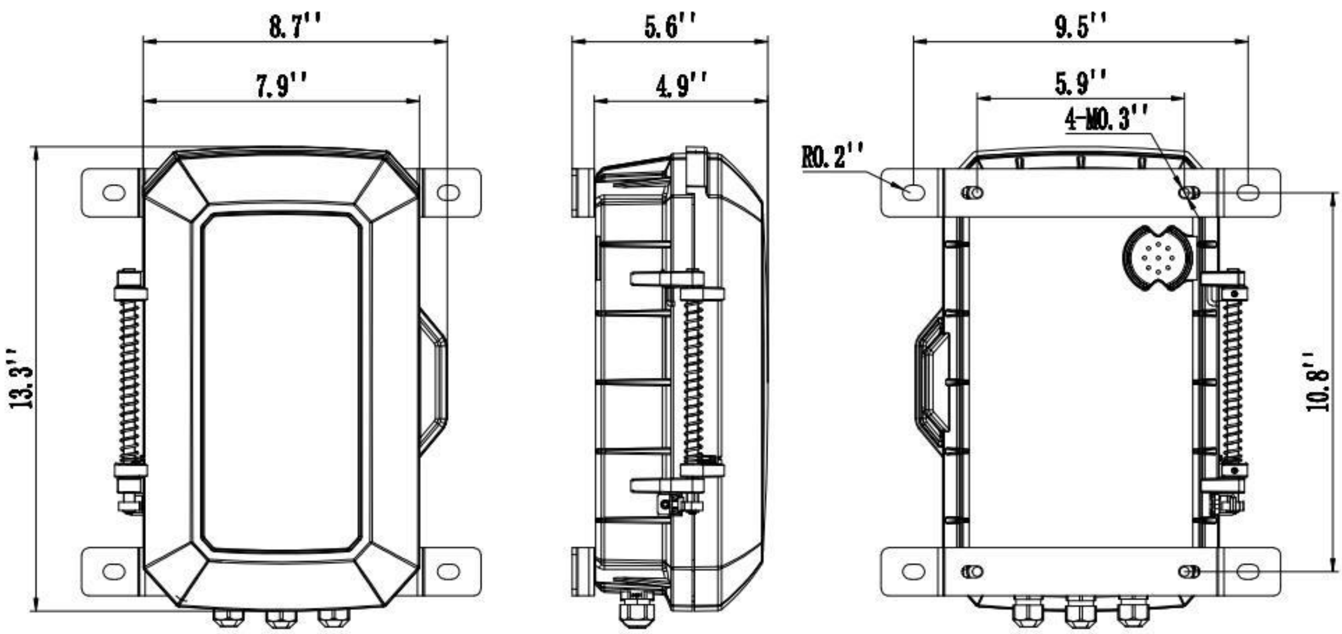
4.2 How to answer a call:

1. JWAT909 : When receive a call, the loudspeaker will turned on, the speaker rings, and it automatically connects to the broadcast mode after three beeps, which can be used to call people. When someone picks up the handset to connect the phone, the loudspeaker is turned off and the handset mode is entered. Normal call status, hang up the handset after the call ends. During the call, the volume of the handset can be adjusted according to the environment.

2. JWAT910: The telephone will ring when there is a call. After picking up the handset to pick up the phone, the ringing will stop and the two parties can talk normally. Hang up the handset after the call. During the call, the volume of the handset can be adjusted according to the environment.

5. Product Dimensions and Installation

5.1 product dimensions

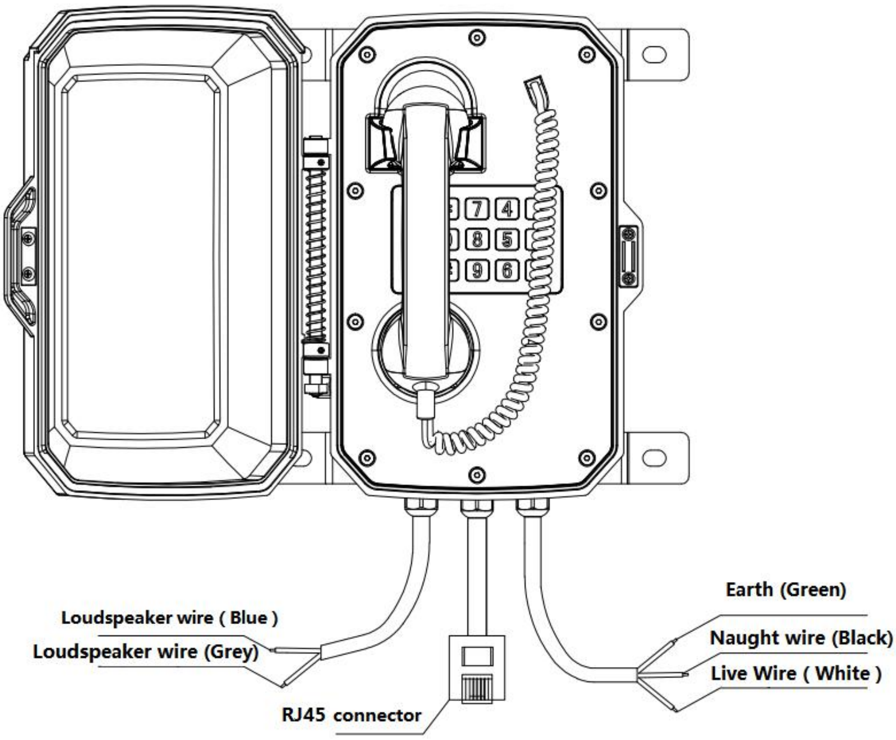


5.2 Telephone wiring: (JWAT909)

1. Amplifying speaker wire connection: The speaker wire UL2464 4*18AWG is connected to the two wires of the explosion-proof speaker through the terminal block in the explosion-proof junction box. The speaker wire does not distinguish the wire sequence and color. Please note that there should be no exposed copper wires during the wiring, and the terminal The screws should be tightened, and do not lock on the insulated wire.

2. Network cable connection: The RJ45 crystal plug has been suppressed when the network cable leaves the factory. You can use the adapter to connect in the junction box, or cut off the crystal plug and connect it directly in the junction box with the system network cable through the terminal. Note that the connection should be connected according to 568B. Don't make the wrong connection when wiring, so as to prevent the phone from not working.

3.Power cord connection: The power cord adopts UL2464 3*18AWG cable, the green wire is the Earth wire, which must be effectively grounded during installation, and the Black is Naught wire,the white is Live Wire. It is connected to the AC220V AC power supply through the terminal block in the explosion-proof junction box. Pay attention to the wiring There should be no exposed copper wires, and the terminal screws should be tightened, and should not be locked on the insulated wire.



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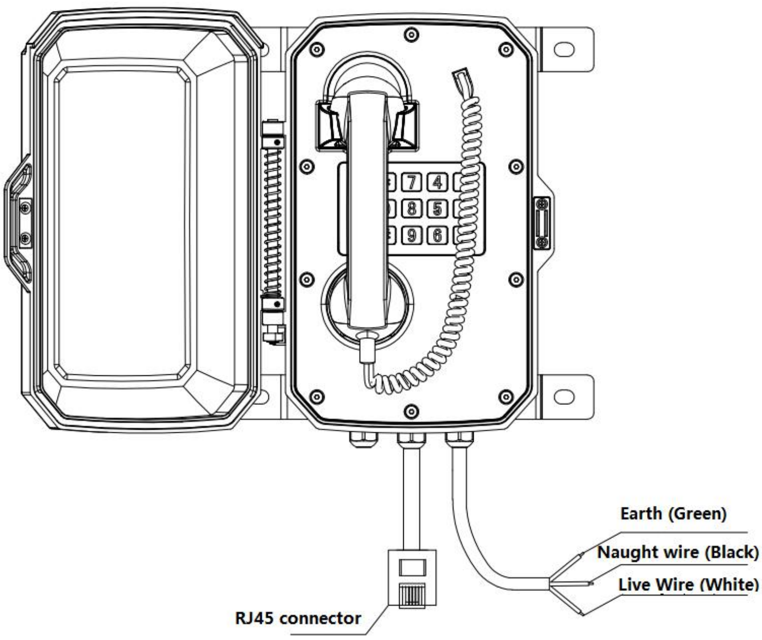
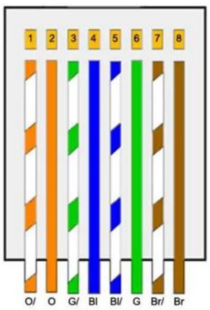


5.4 Installation:

1. Lock the mounting bracket with the delivered M8 screws to the back of the cabinet. The screws must be tightened, and the direction of the bracket cannot be reversed, as shown in Figure above.

2. Measure the holes of the bracket at the installation position, and then fix the phone with the expansion screws to the place to be installed. Pay attention to the level when punching, otherwise the cover will open and close automatically after installation. Easy to pinch when using.

5.5 The connection method of the RJ45 network cable: (JWAT909/JWAT910)



568B

The cable connections that we have described in the previous section can be made in several possible ways and thus the application for which the RJ45 cable is to be used is varied. The ways to connect them are:

>Direct: the same order of pins is respected at both ends, that is, it will connect the same in the two RJ45s that we have in a cable. In this case, devices that are unequal can be connected, for example a PC and a switch, or a PC and a hub, etc.

> Crossed: very popular in applications to connect two equal devices in a network to be able to transmit data between them without an intermediate device. For example, you could connect two PCs directly through their network cards with a crossover cable. To do this, the RX and TX cables must be crossed, so that when one PC transmits through the TX it receives the other PC through RX, and vice versa.

6. Web Settings

6.1 Connect the phone

Please connect a LAN cable, CAT 5E or more to the yellow connector, CAT 6 or CAT 7. Insert the RJ45 Male connector, to the yellow female connector on the main pcb of the phone. The cable should be connected to a POE Switch.

6.2 Browser configuration

When the device and your computer are successfully connected to the network, enter the IP address of the device's WAN port on the browser (the IP address of the device can be obtained through the IP scanning tool) http://192.168.1.128/, you can see Go to the login screen of the web management interface (as shown below). Enter the user name and password and click the [Login] button to enter the setting screen.

If you have not saved your changed settings, you will revert to the previously unaltered state the next time you turn it on. To save your settings, after changing the settings, click the Save button in the configuration file under Manage Settings to save your settings. In this process, the device does not need to be rebooted to take effect.

6.3 Default password

The browser settings of the device can be divided into two login modes: user mode and administrator mode. In administrator mode, all options can be viewed and modified. In user mode, only the SIP can be modified.) options and the address and port of the server.

When the device enters a password prompt, entering different information will enter a different mode:

User mode:：

- Username: guest
- Password：guest

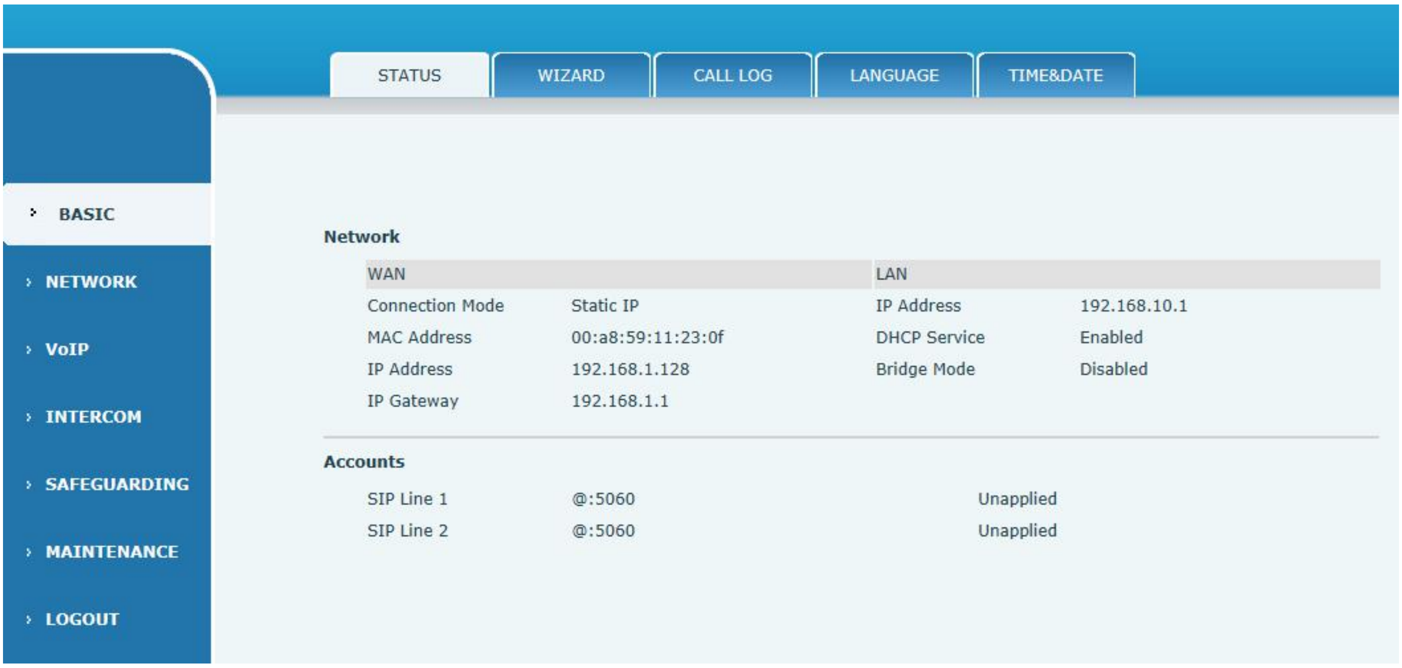
Manager mode:

- Username：admin
- Password：admin

6.4 WEB page function commentary

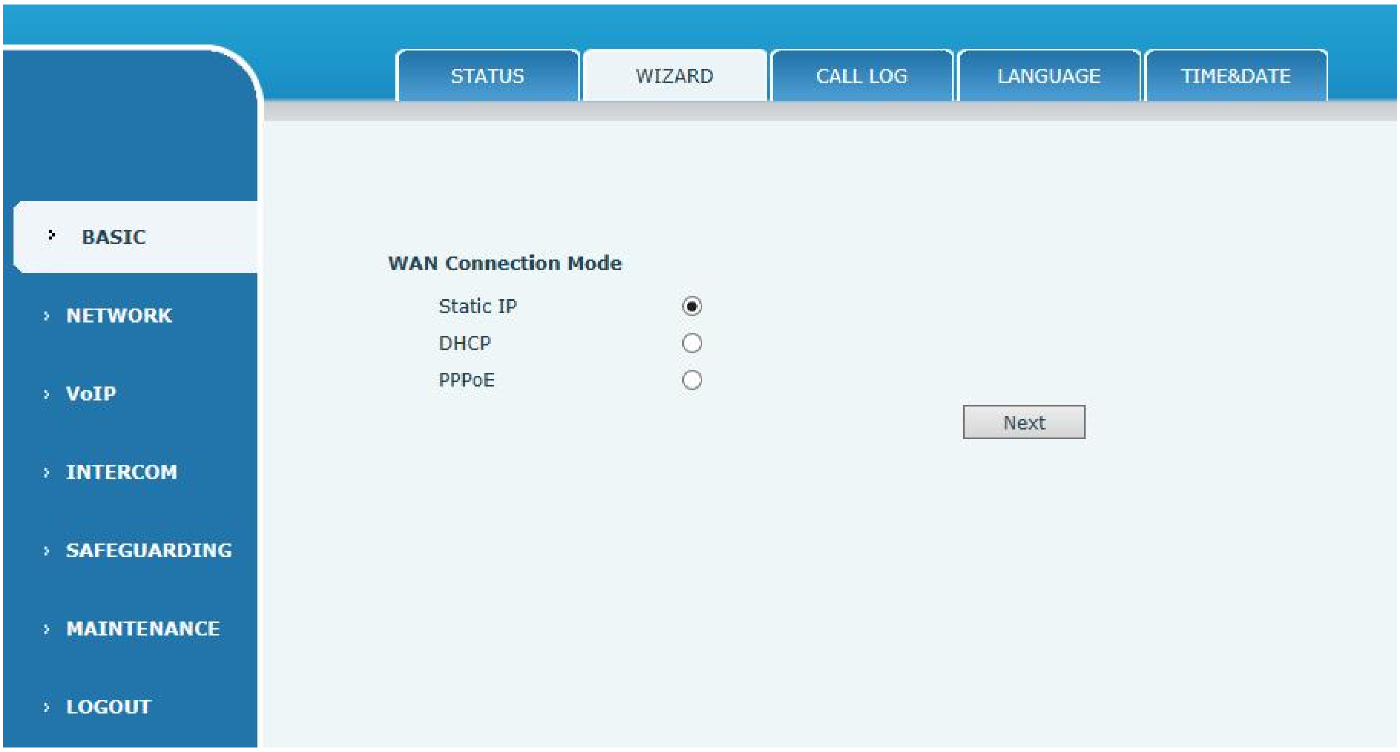
6.41 Basic Settings

a) STATUS

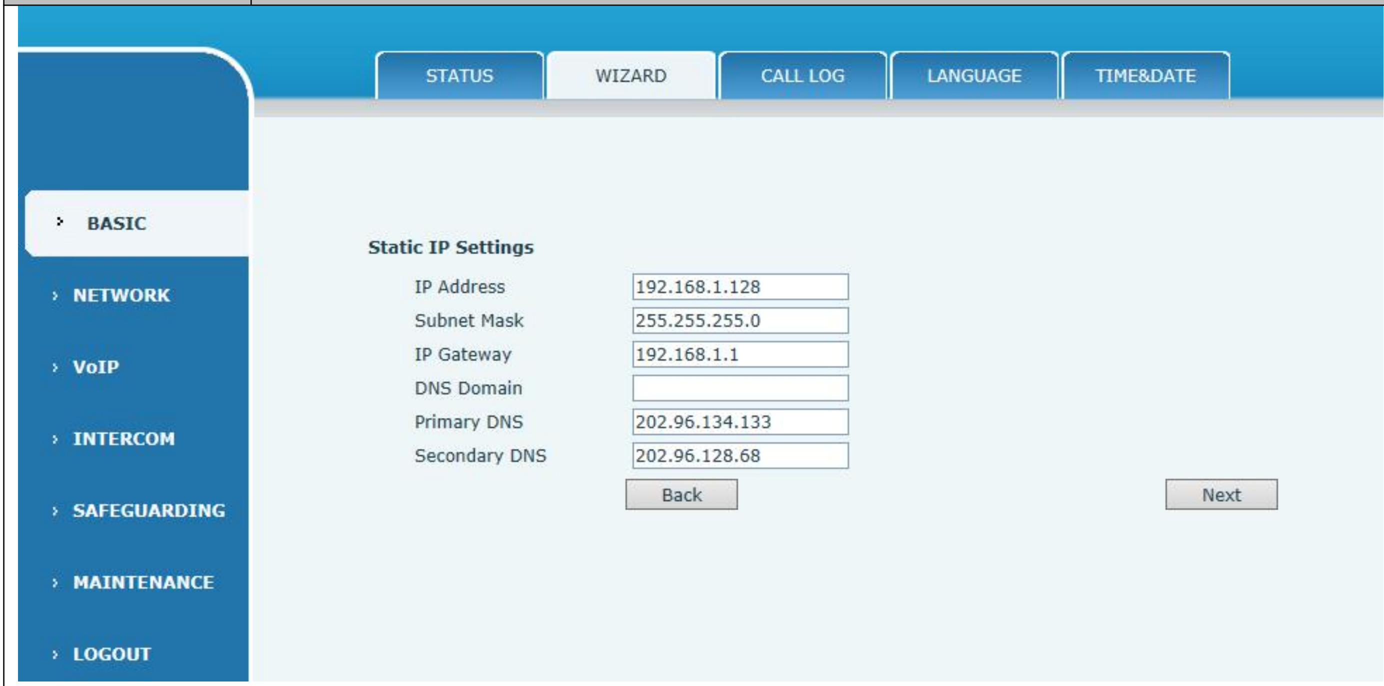


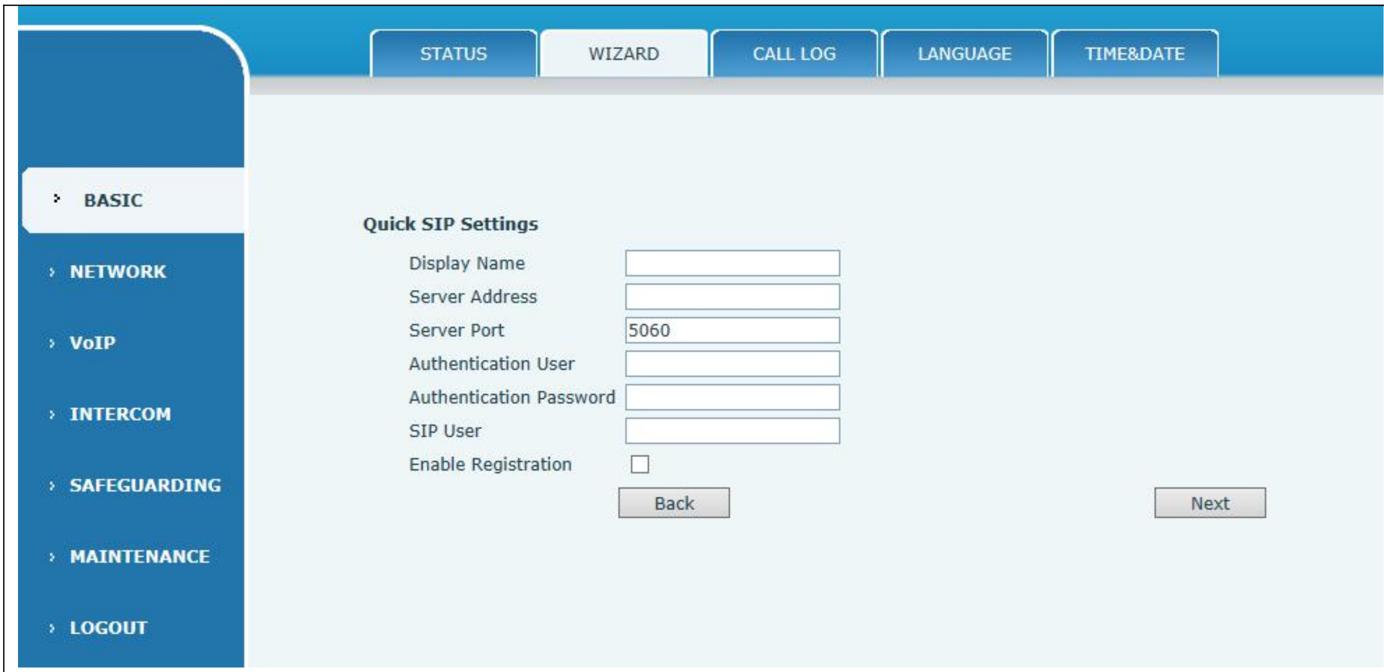
STATUS	
Field Name	**Explanation**
Network settings	Current WAN configuration of the device: including WAN IP acquisition method (static IP, DHCP, PPPoE), MAC address, device IP, IP gateway ; LAN configuration: IP address, DHCP, and bridge mode status. The default is static IP: 192.168.1.128
Telephone number	Current SIP line 1-2 Register the corresponding phone number and status.

b) Wizard

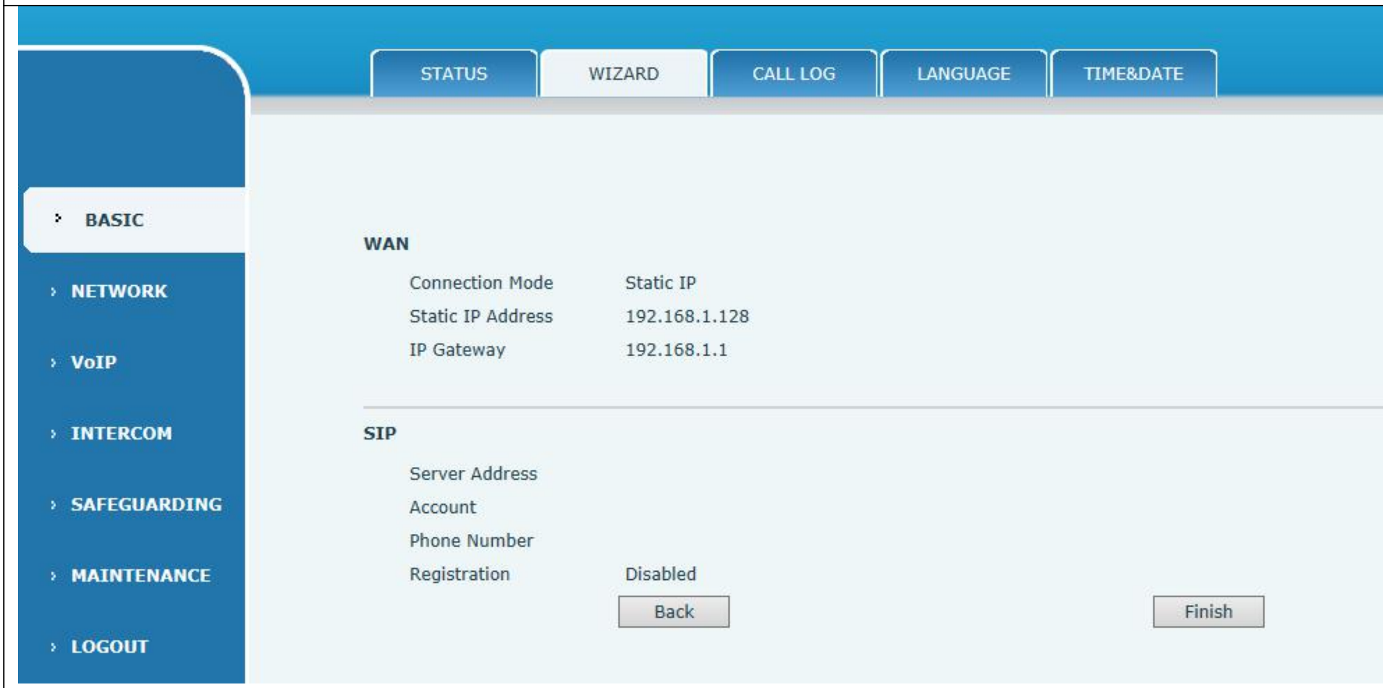
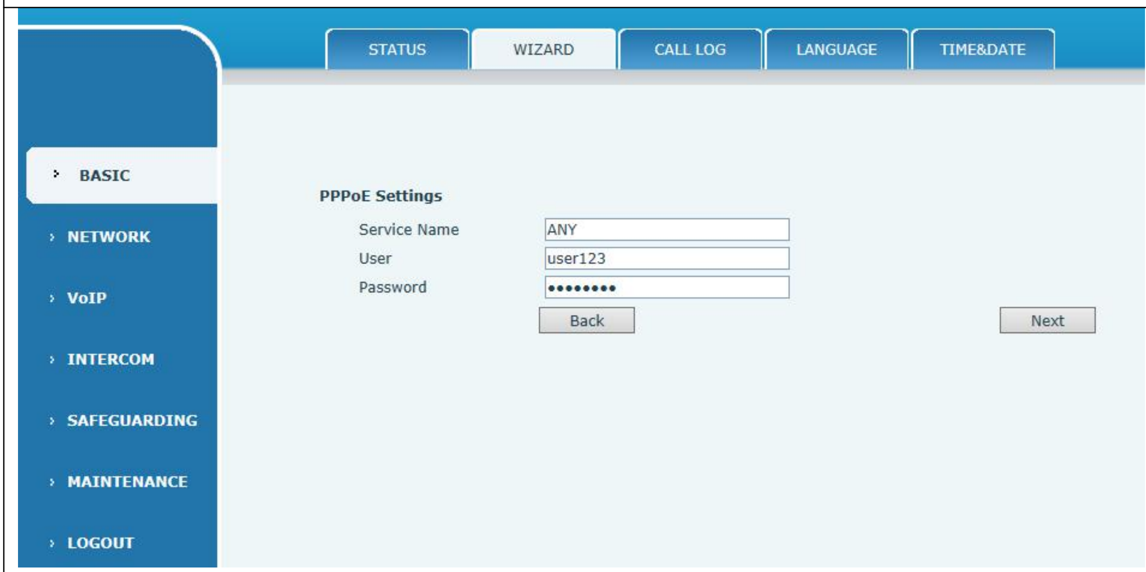


Wizard	
Field name	**Explanation**
Network connection mode of the device.Please select the appropriate network mode according to the actual network environment. The device provides three network connection methods:	
Static IP mode	If your ISP has a fixed IP address, you can choose this option.After selection, you must fill in the static table: IP Address / Netmask /Gateway / Primary DNS and other related information. If you do not know this information, please ask your ISP or network administrator for assistance.
DHCP mode：	In this mode, network-related information is automatically obtained from the DHCP server, and you do not need to enter these fields manually.
PPPoE mode：	When you select this mode, you must enter the ADSL online account and password.
Select the static IP mode, click [Next] to simply configure the network address and SIP parameters (default is 1 line) and browse the configuration items, click [Back] to return to the previous page.	

Field name	Explanation
	
Static IP address	Please enter the IP address you are assigned to.
Subnet mask	Please enter the subnet mask you have assigned.
Gateway	Please enter the default gateway address you have assigned.
DNS domain name	Set the DNS domain suffix. When the user enters the domain name address and cannot be resolved by DNS, the device adds the domain to the domain name address and then parses it.
Primary DNS	Please enter your primary DNS server address.
Secondary DNS	Please enter your Secondary DNS server address.
Quick SIP Setting,Quickly set the account information of the SIP line (default 1 line).	



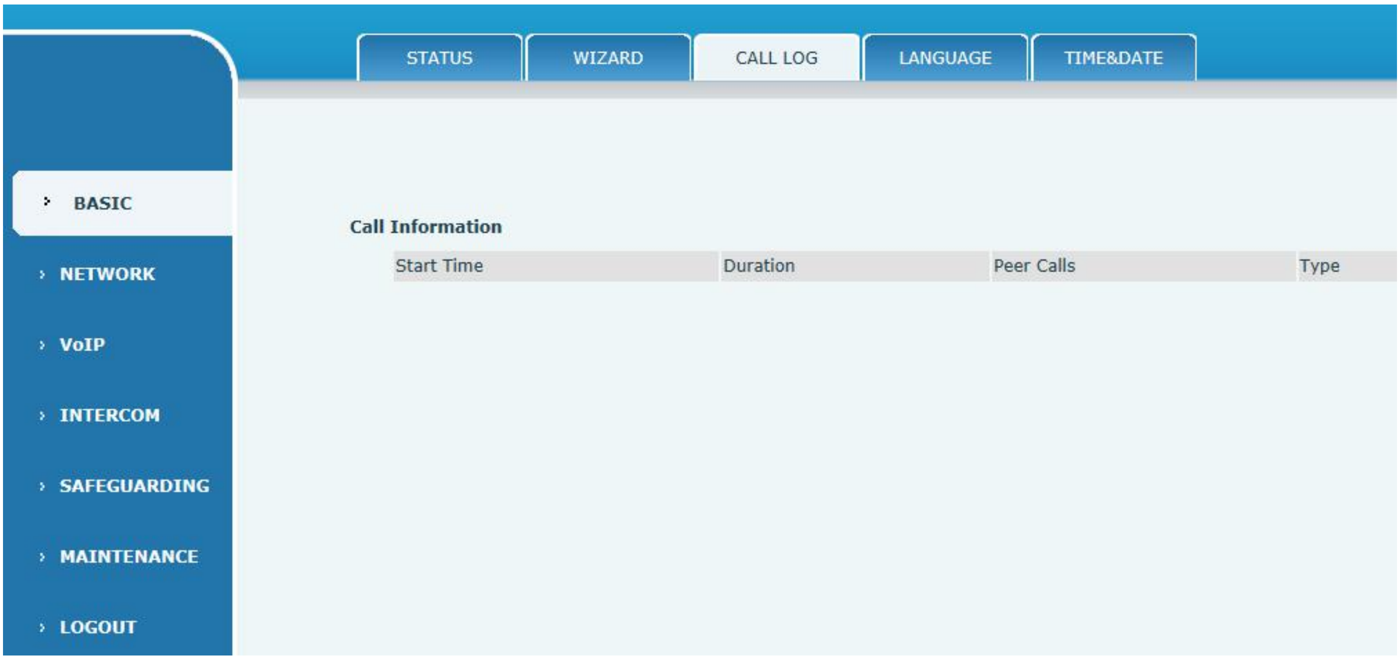
Display Name	Configure the display name. When the caller can be called, the called party (named without calling the caller) can display this configuration parameter and allow English letters to be entered.
Server Address	Configure the SIP registration server address to support the address in the form of a domain name.
Server Port	Configure the SIP registration server signaling port.
Authentication user	Configure the SIP registered account.
Authentication password	Configure the password for the SIP registration account.
SIP User	Configure the number registered to the SIP server.
Enable Registration	Configuration allows/prohibits registration;

Field name	Explanation
Displays the details of the manual configuration.	
	
Select DHCP mode (default is DHCP mode), click [Next] to simple SIP parameters (default is 1 line) and browse configuration items. Click [Back] to return to the previous page, and the specific operation is set quickly with the SIP account.	
Select PPPoE mode, click [Next] to configure the online account and password and SIP parameters (default is 1 line) and browse the configuration items. Click [Back] to return to the previous page, and the specific operation is set quickly with the SIP account.	
	
PPPoE server	The server name, such as PPPoE service provider, has no special requirements. This name is generally the default value.

User	Please enter your ADSL account number.
Password	Please enter your ADSL password.
Note: After clicking the [Complete] button after the above operation is completed, the device will automatically save the current configuration and restart. After the restart is successful, you can use the account you just registered to dial the intercom.	

c) CALL LOG

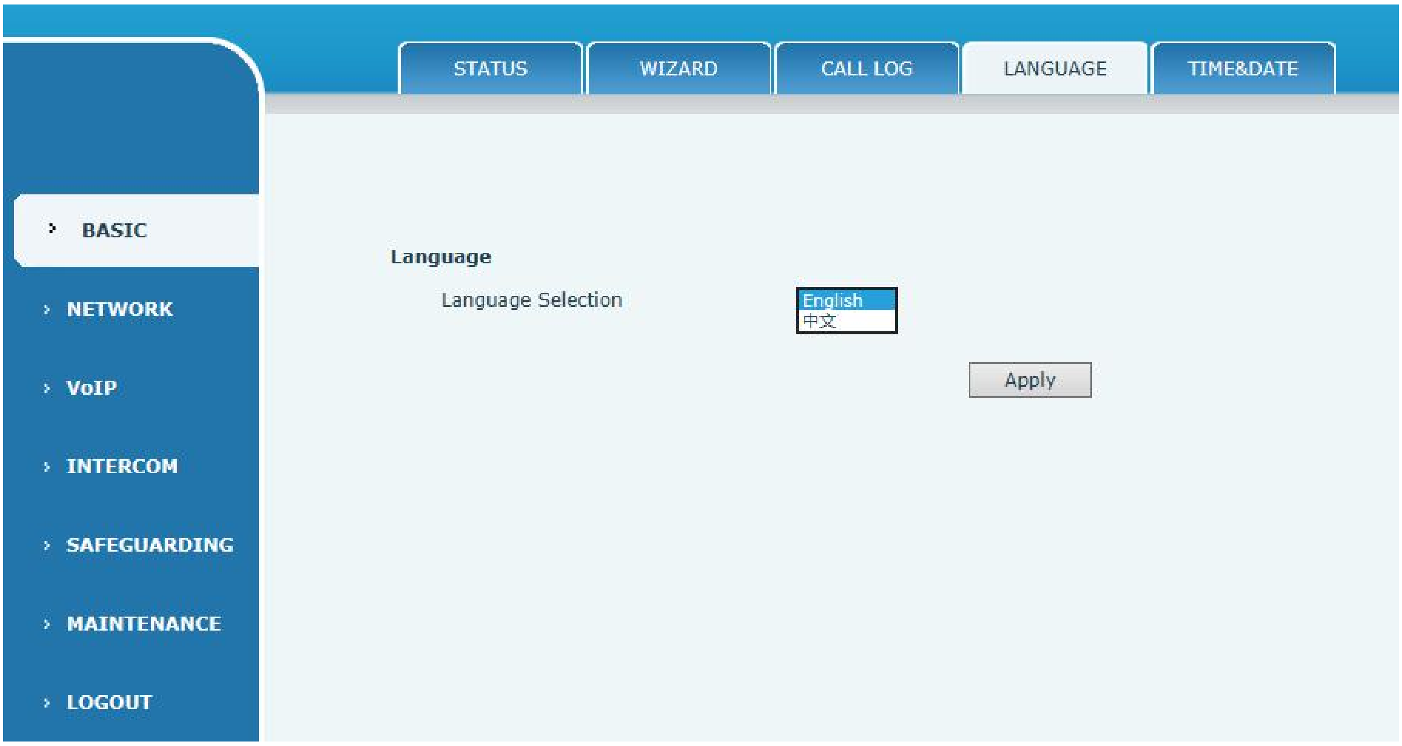
Use this page to query all outgoing calls



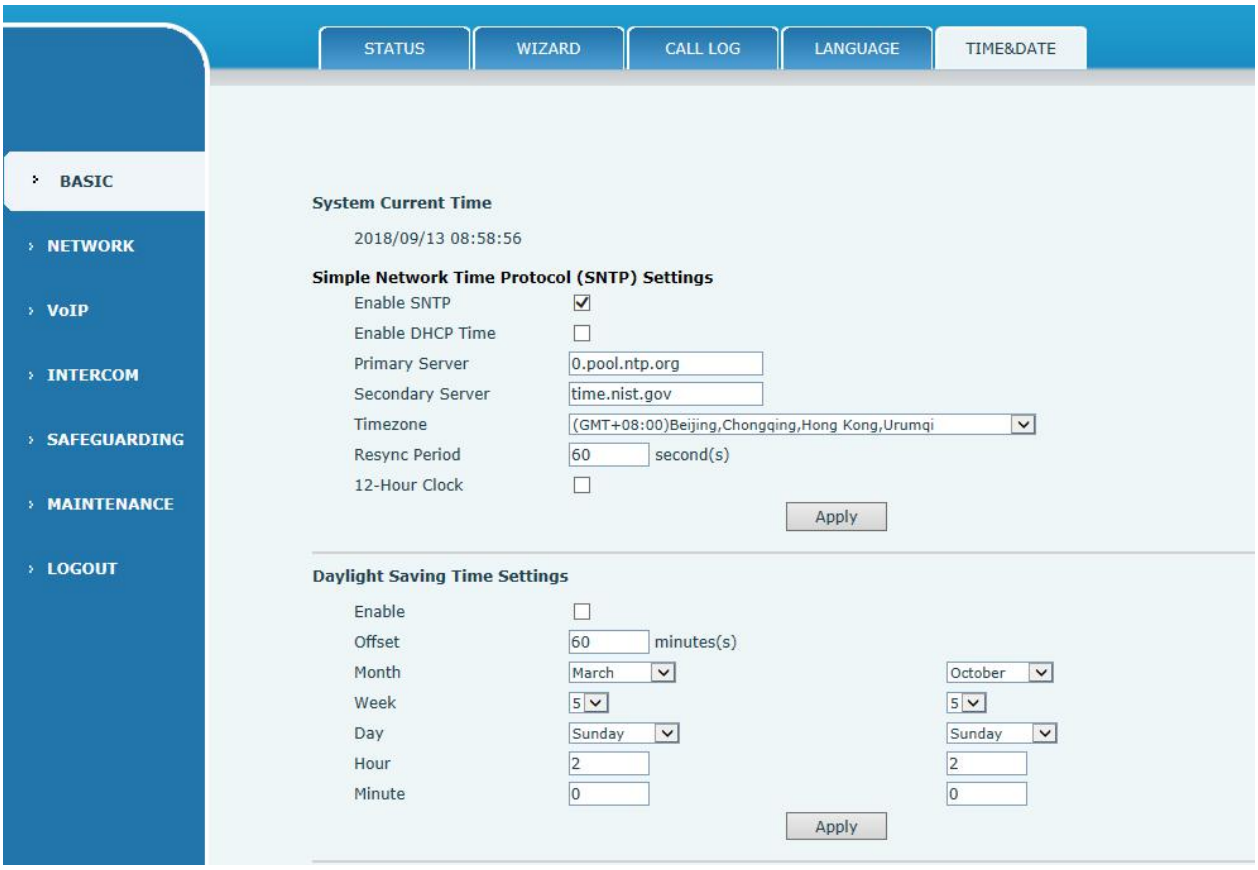
Call Information	
Field name	**Explanation**
Start Time	The start time of this call record.
Duration	The call time recorded by this call.
Peer Calls	This call records the other party's account number and the call protocol and usage line.
Type	The type of this call record.

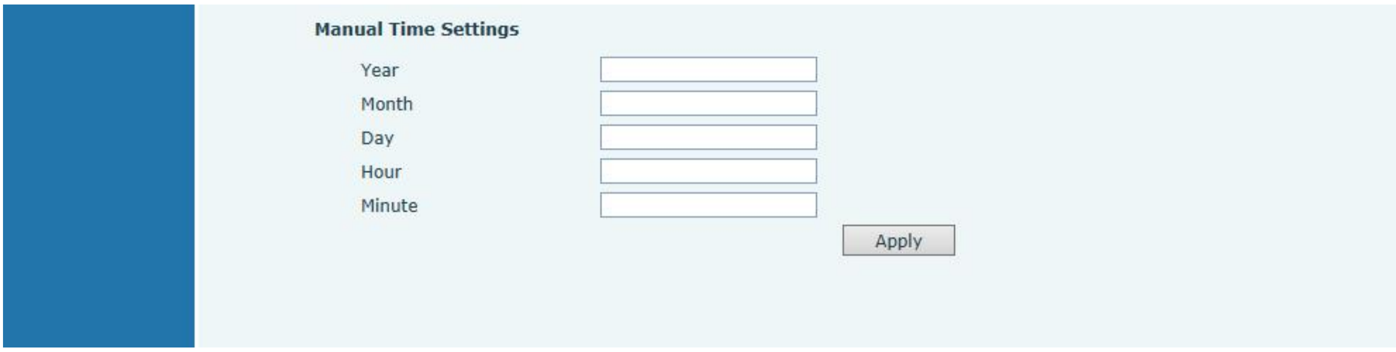
d) language settings

Use this page to set the language you want to display.


STATUS
WIZARD
CALL LOG
LANGUAGE
TIME&DATE
BASIC
NETWORK
VoIP
INTERCOM
SAFEGUARDING
MAINTENANCE
LOGOUT
Language
Language Selection
English
中文
Apply

e) **TIME&DATE**

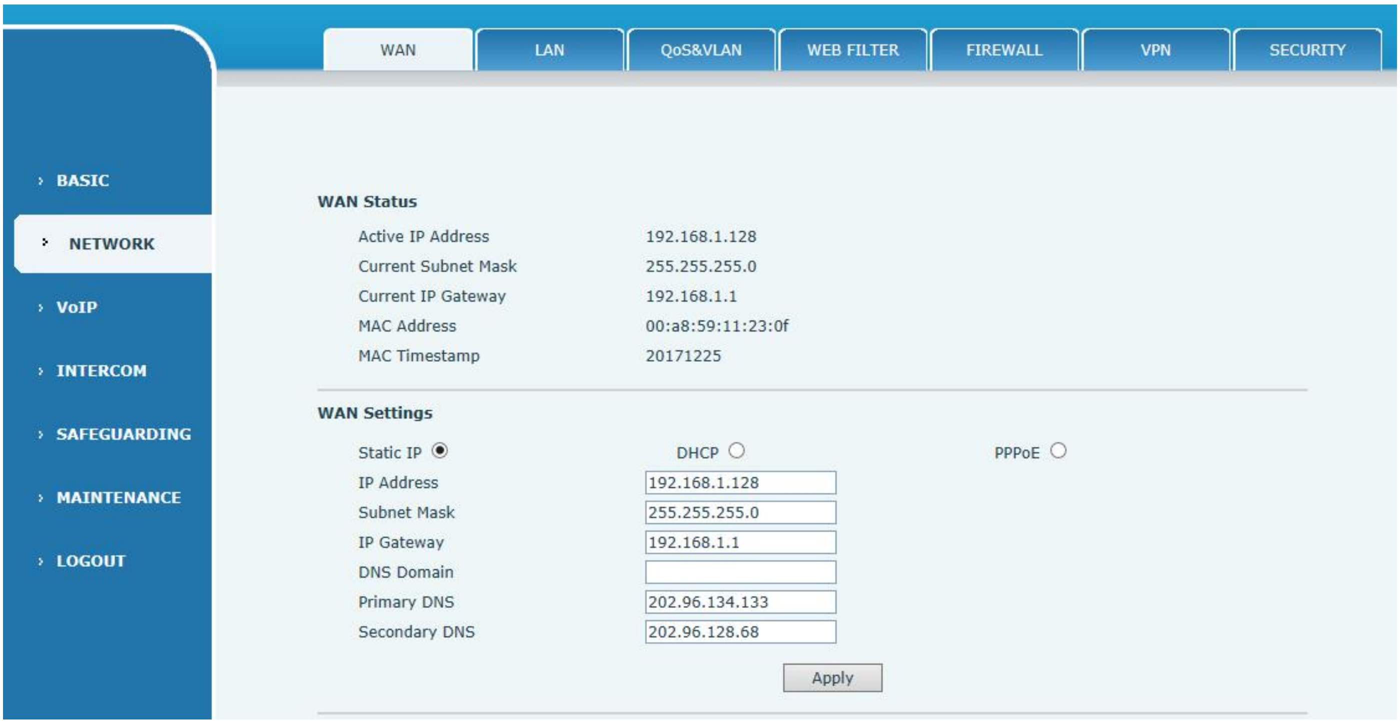

STATUS
WIZARD
CALL LOG
LANGUAGE
TIME&DATE
BASIC
NETWORK
VoIP
INTERCOM
SAFEGUARDING
MAINTENANCE
LOGOUT
System Current Time
2018/09/13 08:58:56
Simple Network Time Protocol (SNTP) Settings
Enable SNTP
Enable DHCP Time
Primary Server
0.pool.ntp.org
Secondary Server
time.nist.gov
Timezone
(GMT+08:00)Beijing,Chongqing,Hong Kong,Urumqi
Resync Period
60
second(s)
12-Hour Clock
Apply
Daylight Saving Time Settings
Enable
Offset
60
minutes(s)
Month
March
October
Week
5
5
Day
Sunday
Sunday
Hour
2
2
Minute
0
0
Apply

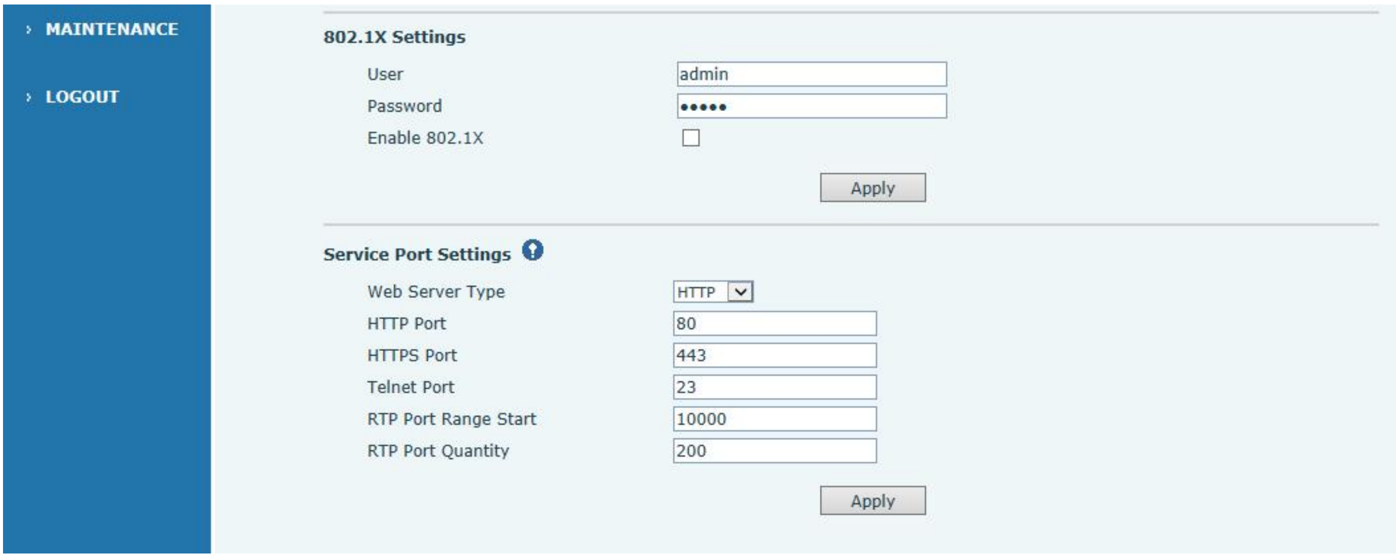


Time setting	
Field Name	**Explanation**
System current time	
Display the time of the current time zone	
SNTP setting	
SNTP	Configure whether to enable the SNTP server
DHCP Time	Whether to use DHCP to dynamically obtain time, when enabled, the device will automatically synchronize the network time for a certain period of time.
Primary server	Configure the device to obtain the SNTP primary server address at the current time.
Secondary server	Configure the device to obtain the SNTP secondary server address of the current time.
Timezone	Configure the time zone for your region
Resync period	How often to ask the server for synchronization, default 60 seconds
12-hour clock	Can be switched to 12-hour system, the default is 24-hour system
Date format	Configure date format
Daylight saving time setting	
Enable	Start daylight saving time
Offset	Daylight saving time change length (minutes)
Month	Daylight saving time start month and end month
Week	Daylight saving time start week and end week
Day	Daylight saving time starting day and ending day of the week
Hour	Daylight saving time start hour and end hour
Minute	Daylight saving time start minute and end minute
Manual Time Settings	
To manually set the time, you need to disable the SNTP service first, and the year, month, day, hour, minute, and minute in the above figure need to be filled out and submitted in order to make the manual setting successful.	

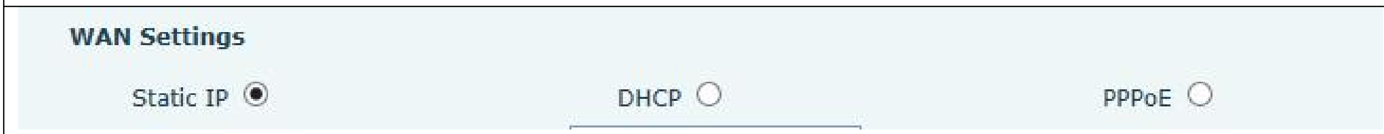
6.5 Network Settings

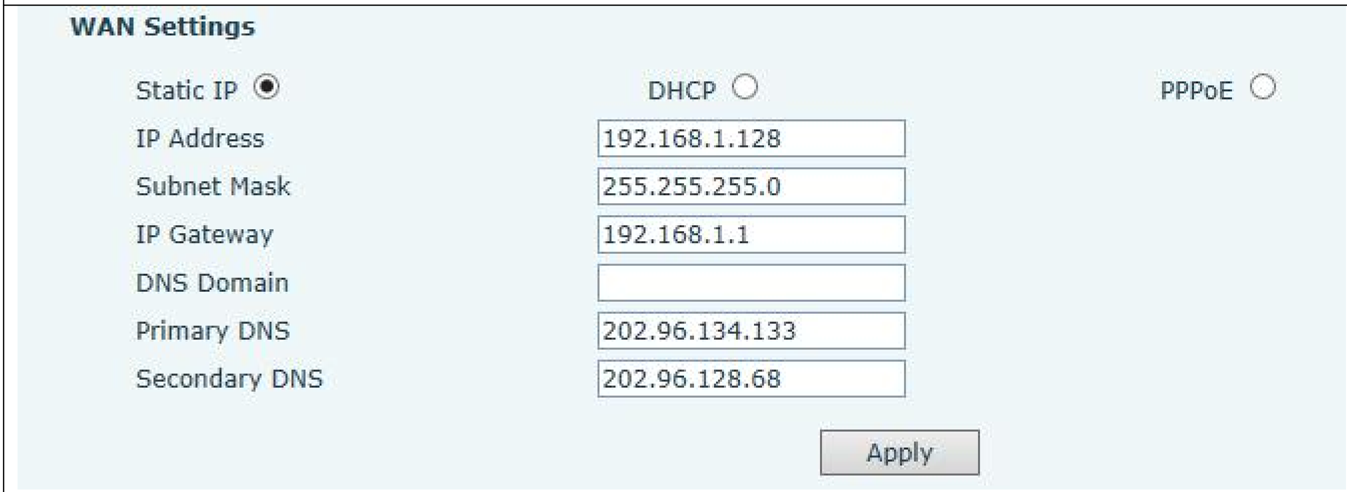
a) WAN





WAN	
Field Name	**Explanation**
WAN Status	
	
Active IP Address	Current IP Address
Current Subnet Mask	Subnet mask
Current IP Gateway	Current preset gateway IP
MAC Address	Display the local MAC address
MAC Timestamp	Show time to get MAC address

Field Name	Explanation
WAN Settings	
	
For the network connection mode of the device, select the appropriate network mode according to the actual network environment. The device provides three network modes:	
Static IP	If your ISP has a fixed IP address, you can choose this option. After selection, you must fill in the static table: IP Address / Netmask /Gateway / Primary DNS and other related information. If you do not know this information, please ask your ISP or network administrator for assistance.
DHCP	When this mode is selected, network-related information is automatically obtained from the DHCP server and you do not need to enter these fields manually.
PPPoE	When you select this mode, you must enter the ADSL online account and password.

The following settings are only required when the device is in static IP mode.	
	
Static IP	Please enter the IP address you are assigned to.
Subnet Mask	Please enter the subnet mask you have assigned.
IP Gateway	Please enter the IP Gateway you have assigned.
DNS Domain	Set the DNS domain suffix. When the user enters the domain name address and cannot be resolved by DNS, the device adds the domain to the domain name address and then parses it.
Primary DNS	Please enter your primary DNS server address.
Secondary DNS	Please enter your secondary DNS server address.
The following settings are only required when the device is in PPPoE mode.	
	
PPPoE Server	The service name, such as PPPoE service provider, has no special requirements. This name is generally the default value.
User	Please enter your ADSL account number.

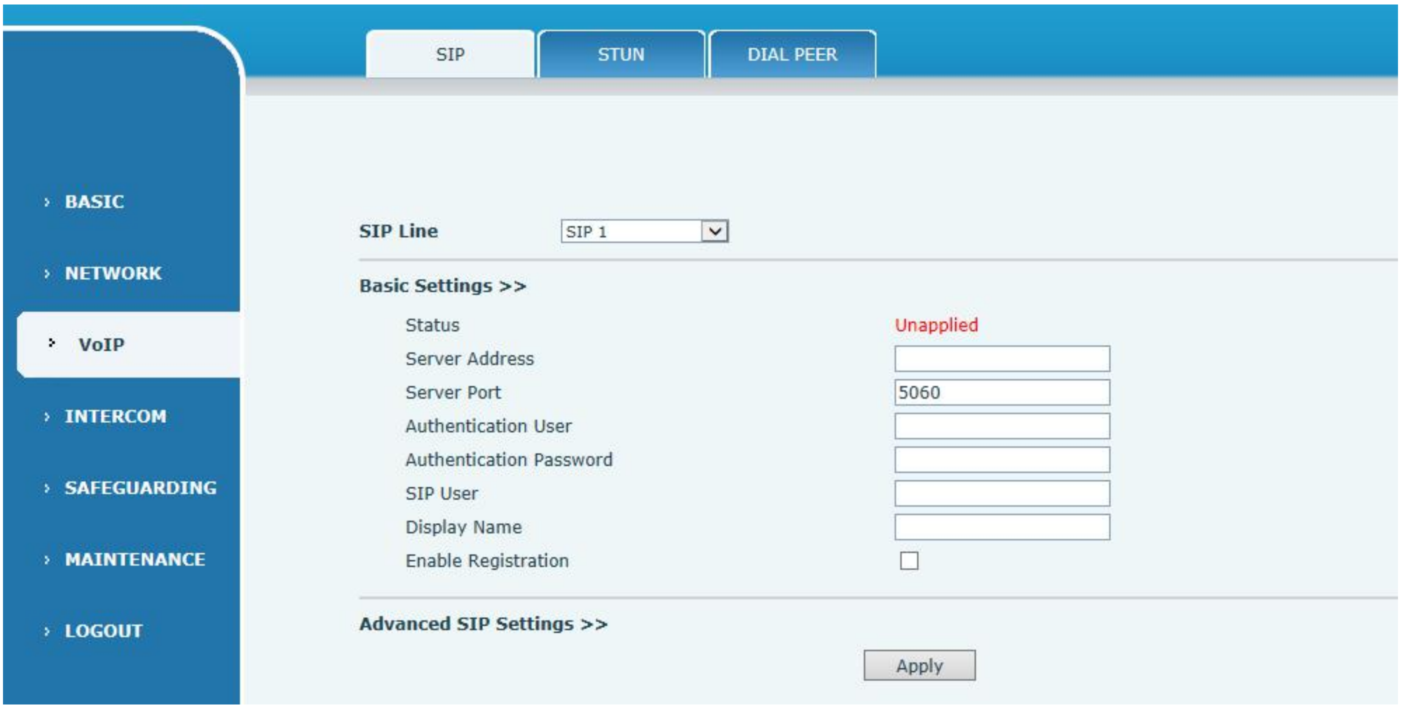
Password	Please enter your ADSL password.
note: 1) After setting the parameters, you need to click [Submit] to take effect. 2) If the IP operation is changed, the web page must no longer respond. In this case, you should enter a new IP in the address bar to connect to the device. 3) If the system uses DHCP to obtain IP, and the network address of the DHCP server is the same as the network address of the system's LAN, then after obtaining the DHCP IP, the system will add 1 to the last digit of the LAN's network address, and modify the LAN. The DHCP server allocates an IP address segment; if the WAN re-accesses DHCP access after the system is started, and the network address assigned by the DHCP server is the same as the LAN, the WAN will not be able to obtain an IP access network.	
Field Name	**Explanation**
802.1X Settings	
	
User	Please enter your account number.
Password	Please enter your password.
Enable 802.1X	Configure to enable/disable 812.1X
Server port	
Web Server	Configure the WEB server type, HTTP and HTTPS. The default is HTTP.
HTTP Port	Configure the web browsing port, the default port is 80. If you want to enhance the security of the system, you are advised to change it to a non-80 standard port. After the change, save the settings. When you log in again, pay attention to log in as http://xxx.xxx.xxx.xxx:xxxx. ;
HTTPS Port	Before using the HTTPS protocol, you must download the HTTPS certificate to the device. After downloading to the device, select the HTTPS protocol and configure the web browsing port. The default port is 443. If you want to enhance the security of the system, you are advised to change it to a non-443 standard port. After saving, save the settings. After restarting the device, be sure to log in as http://xxx.xxx.xxx.xxx:xxxx when logging in again.
Telnet Port	Configure the telnet port, the default is 23 ports.

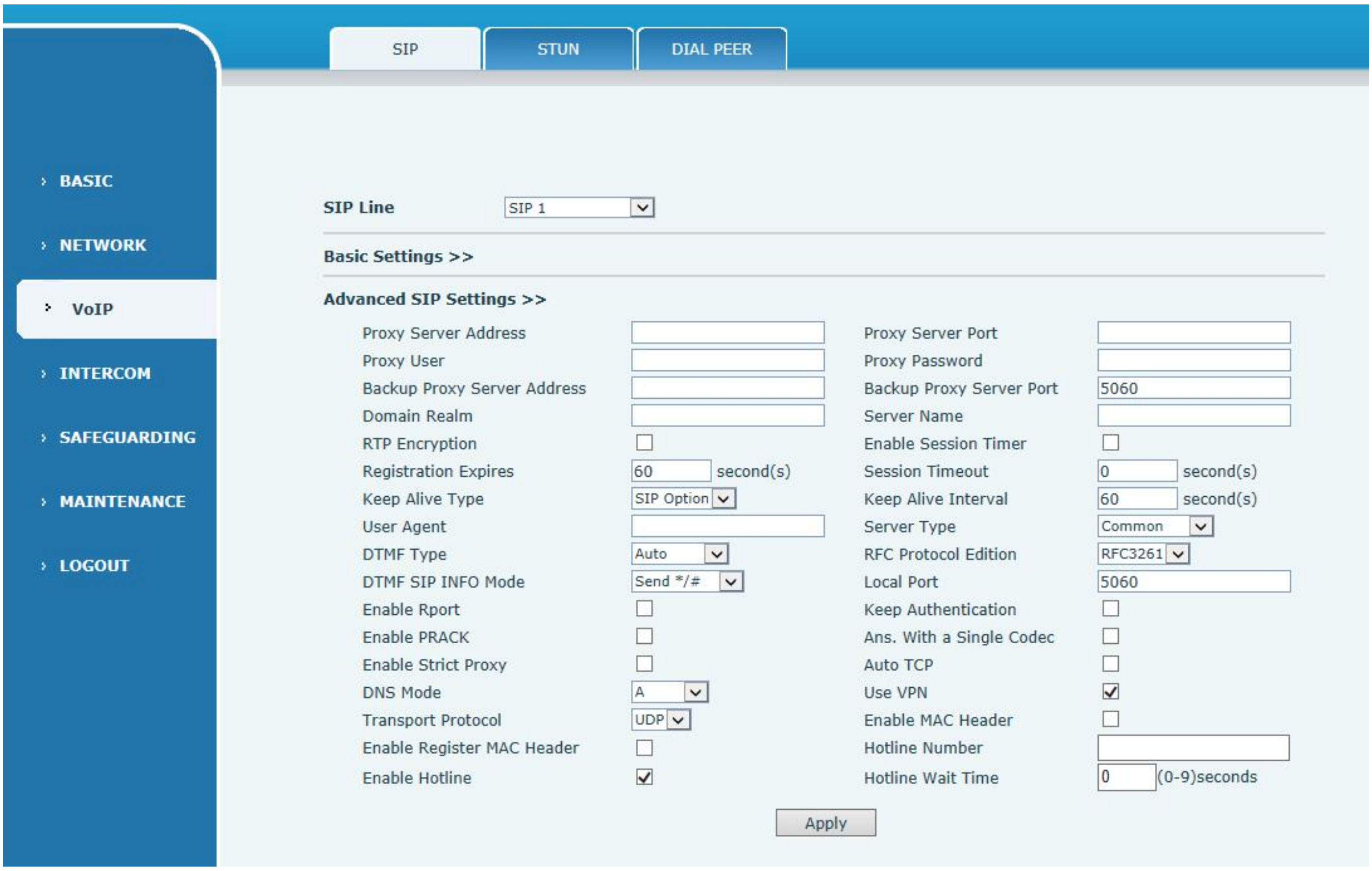
RTP Start Port	The device RTP opens the start port. This port is assigned as a dynamic allocation;
Number of RTP ports	The maximum number of RTP ports allocated by the device. The default is 200;
Note: **1) After modifying this setting, you need to submit the storage and restart the device to take effect.** **2) If you change the Telnet, HTTP port number, it is better to set the port number to be greater than 1024, because the port in 1024 is the system reserved port.** **3) If the HTTP port number is set to 0, the HTTP service is disabled.**	

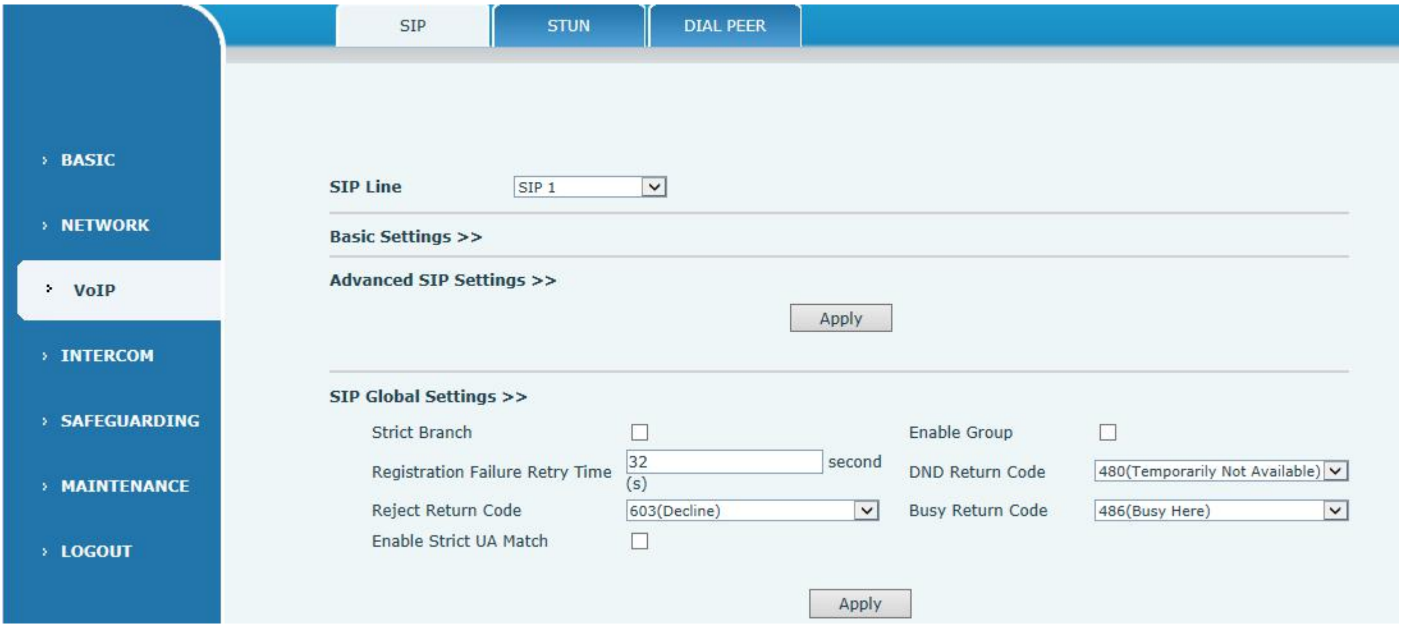
6.6 VOIP Settings

a) SIP

Configure the SIP server here




SIP
STUN
DIAL PEER
BASIC
NETWORK
VoIP
INTERCOM
SAFEGUARDING
MAINTENANCE
LOGOUT
SIP Line
SIP 1
Basic Settings >>
Advanced SIP Settings >>
Proxy Server Address
Proxy Server Port
Proxy User
Proxy Password
Backup Proxy Server Address
Backup Proxy Server Port
5060
Domain Realm
Server Name
RTP Encryption
Enable Session Timer
Registration Expires
60
second(s)
Session Timeout
0
second(s)
Keep Alive Type
SIP Option
Keep Alive Interval
60
second(s)
User Agent
Server Type
Common
DTMF Type
Auto
RFC Protocol Edition
RFC3261
DTMF SIP INFO Mode
Send */#
Local Port
5060
Enable Rport
Keep Authentication
Enable PRACK
Ans. With a Single Codec
Enable Strict Proxy
Auto TCP
DNS Mode
A
Use VPN
Transport Protocol
UDP
Enable MAC Header
Enable Register MAC Header
Hotline Number
Enable Hotline
Hotline Wait Time
0
(0-9)seconds
Apply


SIP
STUN
DIAL PEER
BASIC
NETWORK
VoIP
INTERCOM
SAFEGUARDING
MAINTENANCE
LOGOUT
SIP Line
SIP 1
Basic Settings >>
Advanced SIP Settings >>
Apply
SIP Global Settings >>
Strict Branch
Enable Group
Registration Failure Retry Time
32
second
(s)
DND Return Code
480(Temporarily Not Available)
Reject Return Code
603(Decline)
Busy Return Code
486(Busy Here)
Enable Strict UA Match
Apply

SIP	
Field Name	**Explanation**
Select the SIP account for configuring the first line. There are two lines to choose from.	
Basic Settings	
Status	The SIP registration status of the device is displayed. If the registration is successful, the registration is displayed, the unsuccessful display is not registered, the password error displays 403 error, and the account failure display timeout.
Server Address	Configure the SIP registration server address to support the address in the form of a domain name.
Server Port	Configure the SIP registration server signaling port.
Authentication User	Configure SIP registered account.
Authentication Password	Configure the password for the SIP registration account.
SIP User	Configure the number registered to the SIP server. If it is empty, do not initiate registration.
Display Name	Configure the display name. When the caller can be called, the called party (no name is given to the calling party) can display this configuration parameter, allowing English letters to be input.
Enable Registration	Configure allow/disable registration
Advanced SIP Settings	
Proxy Server Address	Configure the proxy server IP address (usually, the SIP service provider provides the same server for the user to use the proxy server and the registration server to provide the service. Therefore, the configuration of the proxy server is usually the same as that of the registration server, but if the registration provided by the service provider Server and proxy server IP address and other configurations are different, you need to modify the respective server configuration)
Proxy Server Port	Configure the SIP proxy server signaling port.
Proxy User	Configure proxy server account.
Proxy User	Set the proxy server password.
Backup Proxy Server Address	Configure the backup proxy server address. If the primary proxy server address is not available, the device will enable the backup proxy server address.
Backup Proxy Server Port	Configuring a backup proxy server port.

Domain Realm	Configure the SIP local domain name. If the server does not require the local domain name of the SIP terminal to be the specified domain name, the local domain name can be configured with the same address or domain name as the server. In order to simplify user input, the user does not have to input the local domain name, and the system will automatically go to the registration address to fill in the content as domain realm.
Server Name	Name the server.
RTP Encryption	Whether to support voice encryption.
Enable Session Timer	Whether the configuration supports rfc4028,refresh the SIP sessions
Registration Expire	Configure the effective time limit for SIP server registration. The default is 60 seconds. If the registration time required by the server is greater than or less than the time configured by the device, the device can automatically modify the time limit recommended by the server and re-register.
Field Name	**Explanation**
Session Timeout	Configure session timeout time
Keep Alive Type	Configure the server detection type. If the type is option, the device sends an option SIP message to the server every configured server detection time. The server returns 200 OK to maintain the server detection. If the type is UDP, the device sends a UDP message to the server to maintain server detection every configured server detection time.
Keep Alive Interval	Configure the server detection interval. If the device is enabled with the SIP detection server, the device detects the server response every configured time.
User Agent	User agent terminal
Server Type	Choose signaling encryption or special server type.
DTMF Type	Set DTMF send mode, there are four kinds: the default is automatic detection ● In-band ● RFC2833 ● SIP_INFO ● AUTO Different service providers may offer different models
RFC Protocol Edition	Configure the device to use the protocol version. When the device needs to communicate with a gateway using SIP1.0 such as CISCO5300, it needs to be configured as RFC2543 to communicate normally. Use RFC3261 by default.
DTMF_SIP_INFO Mode	There are two options: send 10/11 and send */#
Local Port	Configure separate ports for each line

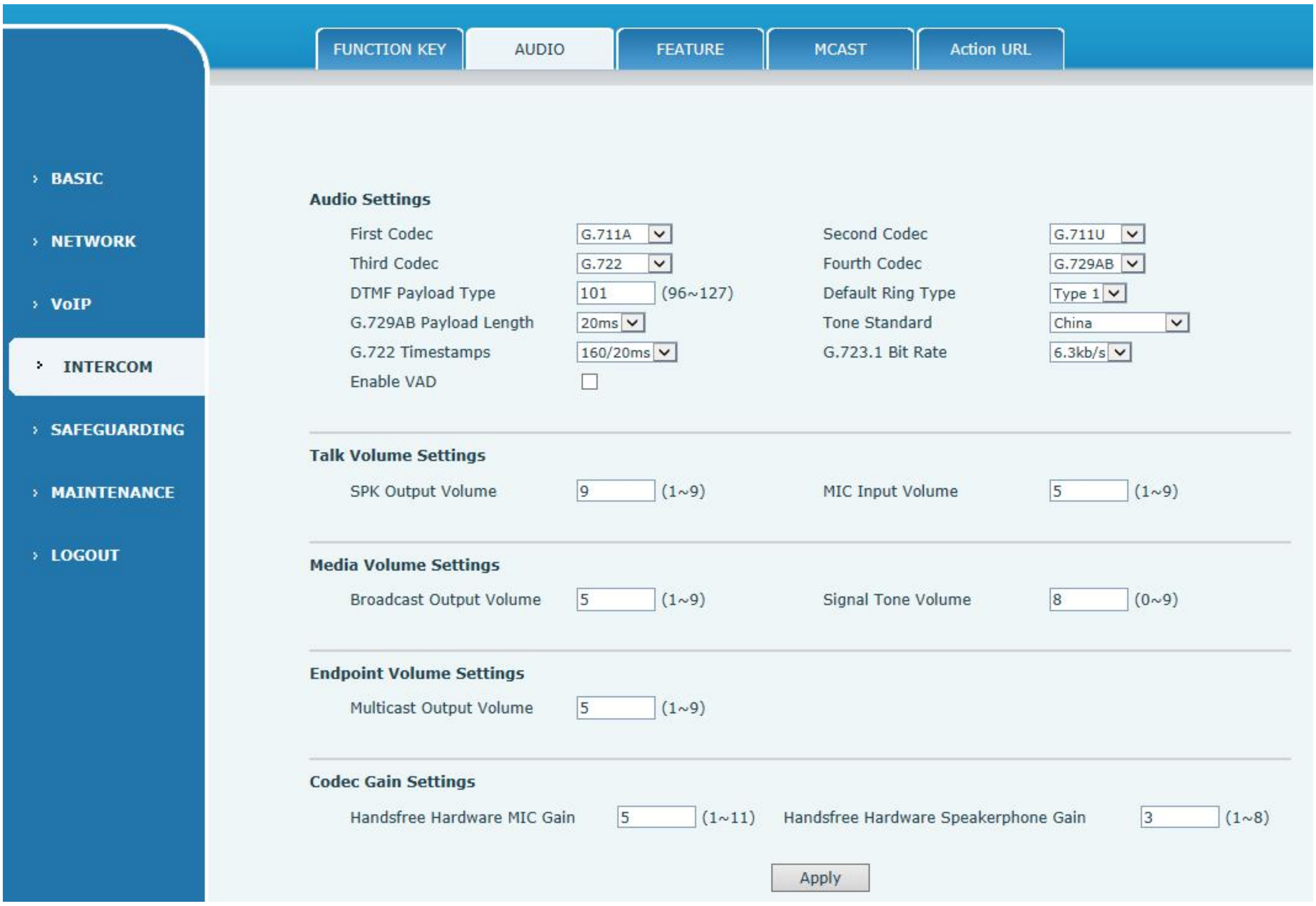
Enable Rport	Whether the configuration supports RFC3581, the rport mechanism is used in the internal network and needs to be supported by the SIP server to maintain the NAT connection between the internal network device and the external network device.
Keep Authentication	Configure whether the device supports registration and send authentication directly, so that the device does not need to authenticate and respond to the server every time. The server directly returns a registration confirmation message when it receives the registration request with authentication.
Enable PRACK	It is recommended to let the device support the SIP PRACK function (mainly used by the CRBT). It is recommended to use the default configuration.
Ans. With A Single Codec	When making a called, only respond to a supported Codec
Enable Strict Proxy	Compatible with special servers (use the source address of the other party when returning a message, no longer use the address in the via field)
Auto TCP	Configure to automatically use TCP protocol transmission when the message body exceeds 1300 bytes; guarantee the availability of transmission.
DNS Mode	Support RFC2782 after opening;
Use VPN	Configure to use the VPN function
Transport Protocol	Configure to use the transport protocol, TCP, TLS or UDP, the default is UDP.
SIP Global Settings	
Strict Branch	Whether the configuration strictly matches the Branch field. If the strict matching of the Branch field is selected, the branch value in the via field of the SIP message received by the device must start with z9hG4k, otherwise the device will not respond to the received SIP message. Note: This configuration is valid in all SIP accounts.
Enable Group	Configure whether to enable the grouping function. The grouping function is mainly used for SIP group backup. Note: This configuration is valid in all SIP accounts.
Field Name	**Explanation**
Registration Failure Retry Time	Configure the server detection type. If the type is option, the device sends an option SIP message to the server every configured server detection time. The server returns 200 OK to maintain the server detection. If the type is UDP, the device sends a UDP message to the server to maintain server detection every configured server detection time.
DND Return Code	Configure the SIP response code of the DND.

Reject Return Code	Configure Reject SIP response code.
Busy Return Code	Configure Busy's SIP response code

6.7 Intercom Settings

a) AUDIO

Through this page, users can set voice coding, input and output, and so on.

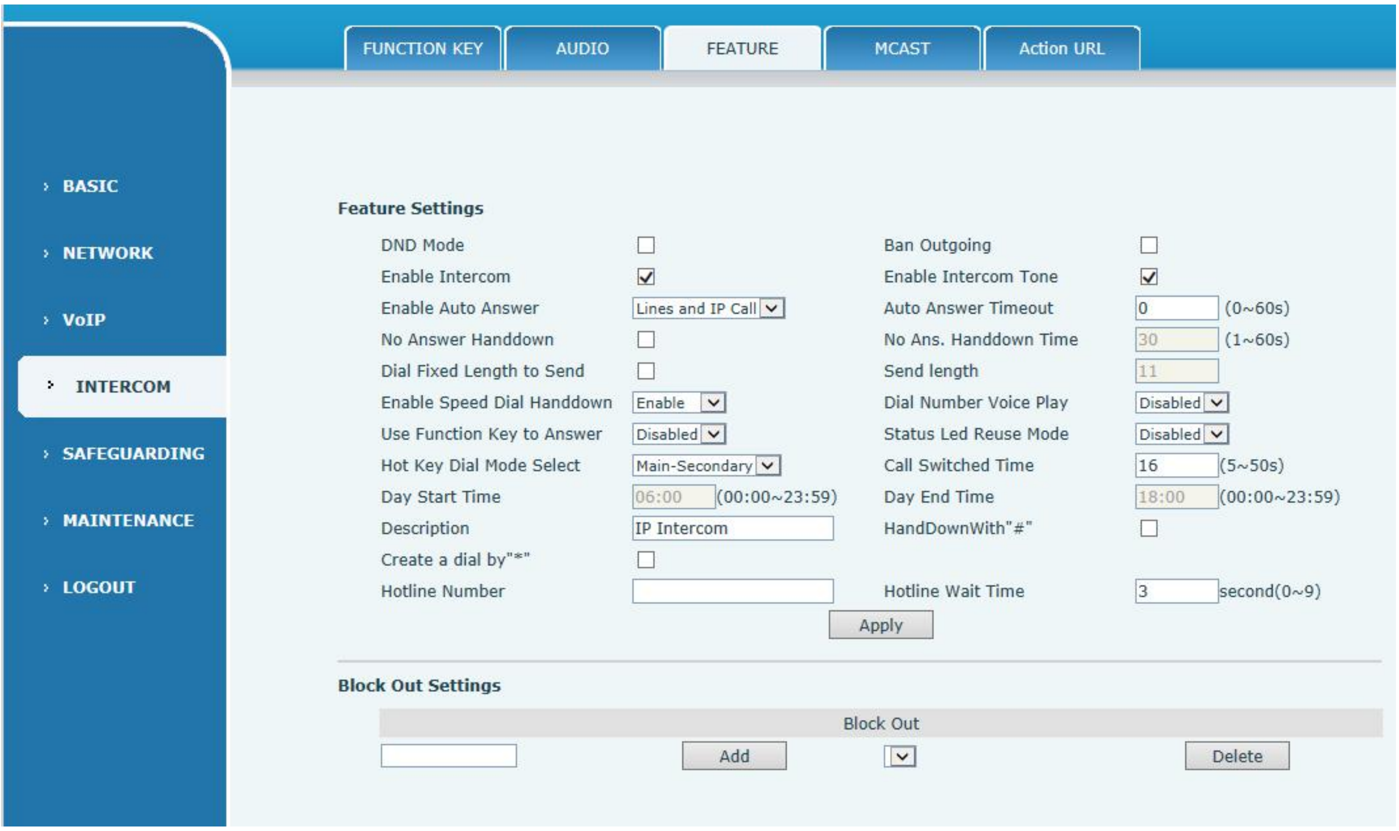


Audio Settings	
Field Name	**Explanation**
First Code	Select the DSP first priority speech coding algorithm, which has: G.711A/u, G.722，G.723, G.729,G.726-32
Second Code	Select the DSP second priority speech coding algorithm, which has: G.711A/u, G.722，G.723, G.729,G.726-32

Third Code	Select the DSP third priority speech coding algorithm, which has:G.711A/u, G.722, G.723, G.729,G.726-32

Forth Code	Select the DSP forth priority speech coding algorithm, which has:G.711A/u, G.722, G.723, G.729,G.726-32
DTMF Payload Type	Set the DTMF payload type, ranging from 96 to 127. The default is 101.
Default Ring Type	Configure the default ringtone;
G.729AB Payload Length	The length of the payload;
Tone Standard	Signal tone standard area.
G.722Timestamps	Select timestamp for G.722 encoding, select 160/20ms and 320/20ms;
G.723.1Bit Rate	For the rate selection of G723, 5.3 kb/s and 6.3 kb/s can be selected;
Enable VAD	Silence detection; if VAD is enabled, the G.729 payload length cannot be set greater than 20ms;
Talk Volume Settings	
SPK Output volume	Hands-free volume level;
MIC Input Volume	The volume level of the microphone;
Media Volume Settings	
Broadcast Out put Volume	Set the volume level of the broadcast output;
Signal Tone Volume	Set the volume level of the signal tone;
Codec Gain Settings	
Handsfree Hardware MIC Gain	Set the gain of the hands-free microphone
Handsfree Hardware Speakerphone Gain	Set the gain of the hands-free speaker

b) Function

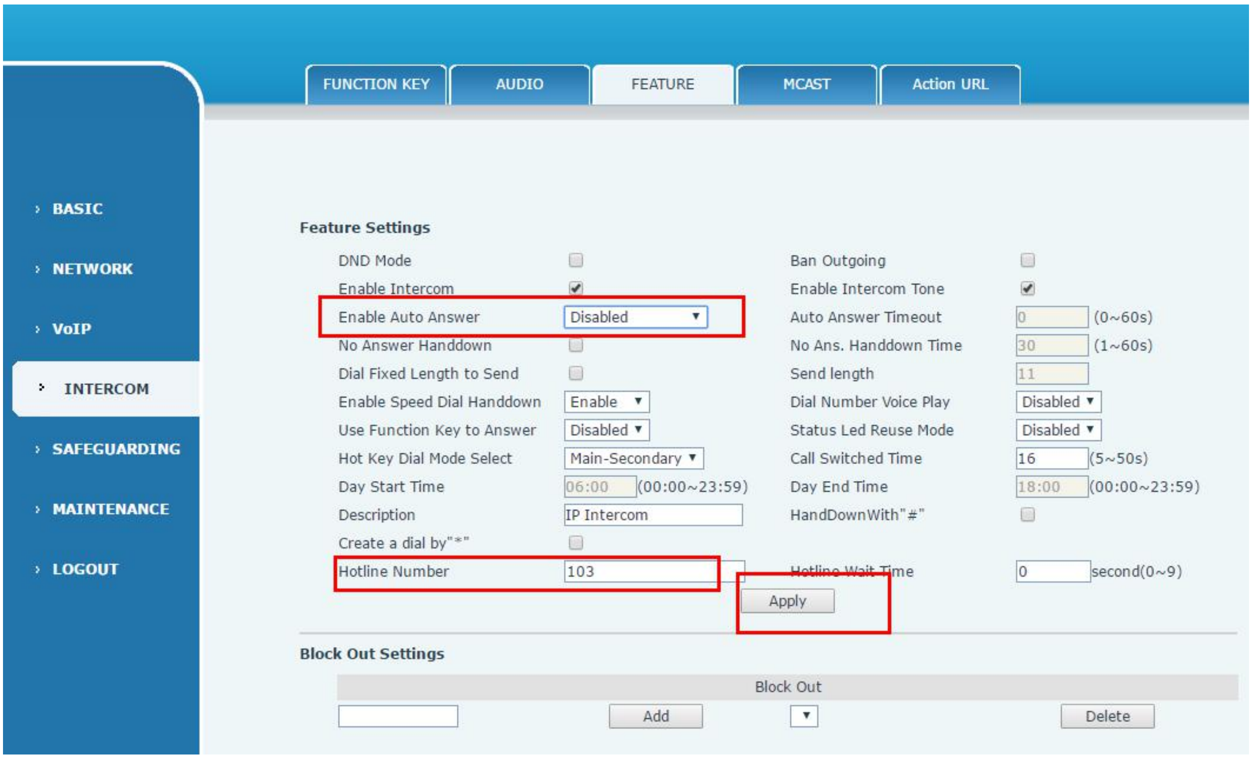


Field Name	Explanation
Function setting	
Do not disturb	Do not disturb,select this item, the device will reject any incoming calls, the caller will prompt the device is not available; but the local call is not affected.
Prohibit outgoing calls	Prohibit outgoing calls, When enabled, off-hook dialing will send a busy tone, prompting to hang up.
Intercom mode mute	Configure intercom mode to enable mute during call.
Intercom Mode Ringing	When the talkback mode is enabled, the caller will hear a ring tone.
Turn on auto answer	Enable auto answer
Auto Answer Time	Configure the time for auto answer
No answer auto hang up	Configuring auto disconnect when no answer is enabled
Field Name	**Explanation**
No answer hang up time	Configure to hang up automatically when there is no answer within the set time

Fixed length receiving number	Configure to enable/disable fixed length receiving number
Length of the receiving number	Configure the length of the receiving number; the default is 4, after the user dials the 4-digit number, the device will automatically call out the 4-digit number.
Speed Dial key hangs up	Enables/disables the Speed Dial key to hang up the call, the default is enabled
Dial-up voice prompts	Configure to enable/disable dial-up voice prompts, disabled by default
Function Key Answer	Configure whether to enable the function key to answer. The default is disabled.
Status Light Multiplexing	When this function is enabled, the registration status indicator will multiplex the call indication function, that is, the light will flash during the call state.
Speed dial call mode selection	Corresponding function key call, first number and second number, select call mode, <Primary/Secondary>: If the first number is not answered within the set time, the second number will be automatically switched. <Day/Night>: The system time is automatically detected during the call. If it is daytime, the first number is called, otherwise the second number is called.
Call switching time	Configure to automatically switch the second number when the first number of the call is busy or does not answer within the set time.
Daytime start time	Defines the start time of the day when the call mode is <Day/Night> mode
Daytime End Time	Defines the end time of the day when the call mode is <Day/Night> mode
Description	Descriptive information displayed on the IP Scanning Tool software
Limit list setting	
Call restriction, configured in the form of a number prefix: If 010 is configured, the user hears a busy tone after dialing 010, prompts to hang up, and cannot continue dialing. If 0 is configured, the user cannot dial all numbers starting with 0; Can support x format, that is, match any one bit, for example, 4xx means that the 3-digit number starting with 4 will prohibit outgoing calls; Supports the format, that is, matches any length, including null; for example, 6. A number representing more than 1 digit starting with 6 will prohibit outgoing calls.	

6.8 Hotline Number Settings

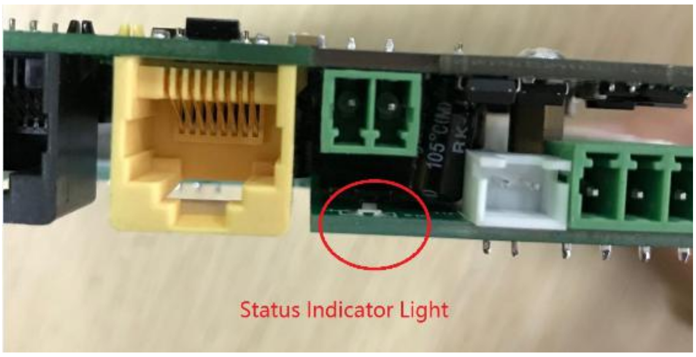
Connect the phone and get into the web management interface. Find the **INTERCOM** module and click **FEATURE** as you can see in the picture below. Select **Disabled** of the Enable Auto Answer option. Input the hotline number and then click **Apply**. The hotline number setting is finished.



6.9 Resetting

There are two switches on the phone board, one switch is * and the other one is #. To reset the board, you need to do as follow steps:

1. Plug the power cable, Press “#” until the status indicator light is on continuously and then come off .
2. Press * # * # * and then the light is off. It means that the configuration is cleared.
3. Unplug the power line and then re-plug the line, the board is reset successfully.



7. Transportation and storage requirements

7.1 During transportation, the product is not allowed to be subjected to severe mechanical shock or direct sunlight and rain, to prevent falling, collision, and heavy pressure.

7.2 The product should be stored in a dry, clean, well-ventilated environment at ambient temperature (0-40 °C), in a non-corrosive medium warehouse, away from fire and heat sources.

8. Unpacking and inspection

8.1 Check that the instruction manual, product certificate, product warranty card and accessories in the box are complete.

8.2 The appearance of the product shall be checked and the marking shall be complete.

8.3 Packing list: 1 host, 2 mounting brackets, 4 sets of bracket fixing screws, 1 manual, 1 warranty card, 1 certificate of compliance. (If there are changes, the actual product received shall prevail)

9. Attention

9.1 Please read this manual before use to understand the product performance and use methods, so as to avoid accidents and damage to the product due to mis-operation.

9.2 The product should be checked carefully before use to ensure that it is installed and used without damage by external forces.

9.3 The product should be stored in a cool, clean and dry environment.

9.4 During the construction process, the product must be operated strictly in accordance with the wiring requirements of the product. Strong and weak currents must be routed separately to avoid affecting the performance of the product, making the product unstable, poor call sound quality, and reducing product life.

9.5 The network cable is a Category 5 shielded network cable, and the distance to the terminal phone should not exceed 80 meters. If the distance exceeds 80 meters, fiber optic transceivers can be used.

10. Safety warnings

10.1 Do not install or repair under power.

10.2 Do not repair in the danger area when the phone fails.

10.3 Cruel hitting the product is strictly prohibited.

10.4 Avoid strong vibrations, shocks and water splashes.

10.5 When the product is overhauled, do not change the specifications and models of circuit components , otherwise the performance will be destroyed

11. After sales

The Warranty of Joiwo’s products is 2 years. Within 2 years since the products are shipped, if there is any quality issue or technical requirements, we will take care of all the trouble shooting and send the spare parts or complete product as required for replacements at our charge.

12.Basic Troubleshooting:

Failure phenomenon	Troubleshooting method	Approach
No effect on keyboard, no sound on handset	Check if the telephone line is connected to the motherboard. Use a multimeter to measure whether the voltage at both ends is 48V.	Reconnect the unconnected phone line
Some keys on the keyboard have no effect	Check if the cable between keyboard and motherboard is loose	Plug the keyboard cable back into the motherboard and plug it into place
There is no sound from the receiver.	Check if the connecting cable between the handle and the motherboard is loose	Plug the handle wire back into the motherboard and plug it into place
Can't make a call	1.Check if the network is connected 2.Check if it is registered on the server	1.Check the line, reconnect to the network, and use the computer to ping the IP address of the phone to ping through 2.Correct the registration information until the registration is successful
Can make calls, but Can't get in	Go to WEB to see if DND mode is set.	Turn off "Do Not Disturb''mode
There is no sound from the amplifier	1.Check whether the 220V power supply is powered or the line is not connected well. 2.Check if the cable between the phone and the speaker is well connected 3.Check whether the speaker is damaged	1. Handle the unconnected line and provide 220V power to the phone. 2.Reconnect the line between the phone and the speaker 3.Replace the speaker