

SIP Speaker iW30

USER MANUAL

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4 Safety Notices

Safety Notices

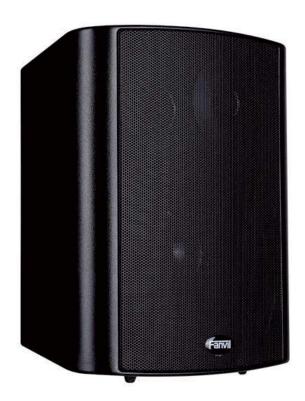
- Please use the specified power adapter. If special circumstances need to use the
 power adapter provided by other manufacturers, please make sure the voltage and
 current provided in accordance with the requirements of this product, meanwhile,
 please use the safety certificated products, otherwise may cause fire or get an
 electric shock.
- 2. When using this product, please do not damage the power cord, or forcefully twist it. Stretch pull or banding, and not to be under heavy pressure or between items, Otherwise may cause the power cord damage, thus lead to fire or get an electric shock.
- 3. Before use, please confirm the temperature and environment humidity suitable for the product work. (Move the product from air conditioning room to natural temperature, which may cause this product surface or internal components produce condense water vapor, please open power use it after waiting for this product is natural drying).
- 4. Non-technical staff not remove or repair, improper repair or may cause electric shock, fire or malfunction, etc., Which can lead to injury accident, and also can cause your product damage.
- 5. Do not use fingers, pins, wire and other metal objects, foreign body into the vents and gaps. It may cause current through the metal or foreign body, which even cause electric shock and injury accident. If any foreign body or objection falls into the product please stop usage.
- 6. Please do not discard the packing bags or stored in places where children could reach, if children trap his head with it, may cause nose and mouth blocked, and even lead to
- 7. Please use this product with normal usage and operating, in bad posture for a long time to use this product may affect your health.
- 8. Please read the above safety notices before installing or using this phone. They are crucial for the safe and reliable operation of the device.

suffocation.



5 Product introduction

This product is a complete digital network intercom equipment, its core part adopts mature VOIP solutions (Broadcom 1190), the performance is stable and reliable; Paging system can use g.711 and g.722 with loud and clear voice; Besides, simple installation, low standby power consumption.





6 Start Using

Before you start to use equipment, please make the following installation:

6.1 Connecting the power supply and the network

6.1.1 Connecting network

In prior to this step, please check if your network can work normally and have capacity of broadband internet access.

Broadband Router

Connect one end of the network cable to the intercom WAN port, the other end is connected to your broadband router's LAN port, so that the completion of the network hardware connections. In most cases, you must configure your network settings to DHCP mode.

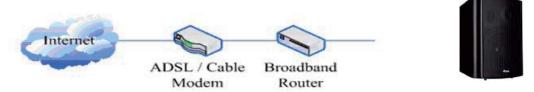


Figure 1

No Broadband Router

Connect one end of the network cable to the intercom WAN port, the other end is connected to the broadband modem to your LAN port, so that the completion of the network hardware connections. In most cases, if you are using the cable broadband, you must configure your network settings to DHCP mode; if you are using the ADSL, you must configure your network settings to PPPoE mode.



Figure 2



6.1.2 Port description

Icons	Descriptio n	Feature	Picture
Power	DC Power Input port	Input Range:+12~+24V DC (Notice: do not connect the incorrect polarity)	POWER + 12V-24V 2A
WAN	WAN port	10M/100M Adaptive Ethernet port, connected to the network	WAN
LAN	LAN Port	10M/100M Adaptive Ethernet port, connected to the computer (which can be configured to routing mode, or to bridge mode) or IPC camera.	LAN
NET	The Network Light	 The network gets through, and the light put out The network cannot get through, and the light blink fast within 0.5s The network gets through but registration fail, and the light blink slowly with 1s 	NET
VOLUME /RST	button	 Press and hold volume down button for 3 seconds; the door phone would report the IP address by voice, and the voice volume will go down by single press the button. Long press the volume up button for 10 seconds, the speaker issued a rapid beep, and then quickly press the "volume up" button three times, beep stopped. Wait 10 seconds, successfully switch to dynamic IP after the system automatically voice broadcast IP address. Switching again will become a fixed IP address, and the voice volume will go up by single press the button. Press the reset button for 3 seconds, the device automatically restarts and restores the factory configuration. 	VOLUME RST
AUDIO	Audio output	Connect audio port to output the audio headphones or external speakers.	AUDIO (



6.2 Quick Setting

The product provides a rich and complete function and parameter setting; users may need to have a network with SIP protocol in order to understand the related knowledge on behalf of all the significance of the parameters. In order to high quality voice service and low-cost advantage, allowing users to enjoy the facility brought fast, especially in the listed in this section the basic and necessary to set options users can quickly get started, no without understanding the complicated SIP protocol.

In this step, please confirm the Internet access can be normal operation and complete the connection to the network hardware. The intercom default for DHCP mode.

- ❖ Long press # key for 3 seconds, device's IP address will be played on voice, or use the "iDoorPhoneNetworkScanner.exe " software to scan the IP address of the device.
- ♦ Log on to the WEB device configuration.
- ❖ In a SIP page configuration service account, user name, parameters that are required for server address register.
- ❖ You can set function parameters in the Webpage (Intercom-> feature).
- ❖ In the intercom Settings > voice page setup the volume

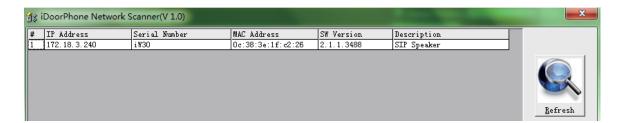


Figure 3

6.3 Basic operation

6.4 Answer a call

When call coming, the device will automatically answer, if the "Auto Answer Timeout" was set, user will hear the bell in the set time, automatic answer after a timeout.

6.5 Volume

If you are not satisfied with the default volume, please logon the web page of the device, go to Intercom Setting -> Audio page, to set the volume.



6.6 Video linkage

- ❖ Use other manufacturers camera please connect to the switch, the device LAN Port interface can only connect the original camera.



7 Page settings

7.1 Browser configuration

When the device and your computer successfully connected to the network, enter the IP address of the device on browsers . You can see the Webpage management interface the login screen.

Enter the user name and password and click [logon] button to enter the settings screen.



Figure 4

After configuring the equipment, remember to click "Apply" to save the configuration. If this is not done, the equipment will lose the modifications when it rebooted.

7.2 Password Configuration

There are two levels of access: root level and general level. A user with root level access can browse and set all configuration parameters, while a user with general level can set all configuration parameters except server parameters for SIP.

- ♦ Default user with general level:
 - Username: guest
 - Password: guest
- ♦ Default user with root level:
 - Username: admin
 - Password: admin



7.3 Configuration via Web

7.3.1 System

7.3.1.1 Information



Figure 5

Information		
Field Name	Explanation	
System	Display equipment model, hardware version, software version,	
Information	uptime, Last uptime and MEMinfo.	
Network	Shows the configuration information for WAN port, including	
	connection mode of WAN port (Static, DHCP, PPPoE), MAC	
	address, IP address of WAN port.	
SIP Accounts	Shows the phone numbers and registration status for the 2 SIP	
	LINES.	



7.3.1.2 **Account**



Figure 6

Diagram 3

Account		
Field Name	Explanation	
Change Web Authentication Password		
You Can modify the login password to the account		
Add New User		
You can add new user		
User Accounts		
Show the existing user information		

7.3.1.3 Configurations

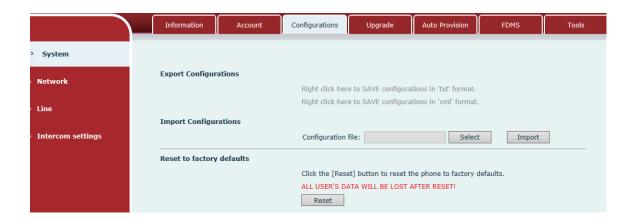


Figure 7

Diagram 4



Configurations	
Field Name	Explanation
Export	Save the equipment configuration to a txt or xml file. Please Right
Configurations	click on the choice and then choose "Save Link As."
Import	Browse to the config file and press Update to load it to the
Configurations	equipment.
Reset to factory	This will reset factory default settings and remove all
defaults	configuration information.

7.3.1.4 Upgrade

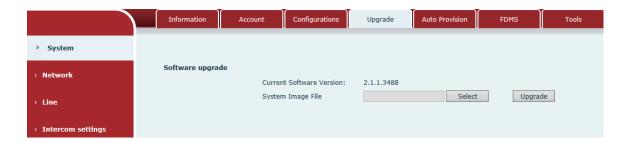


Figure 8

Upgrade		
Field Name	Explanation	
Software upgrade		
Browse to the firmware and press Update to load it to the equipment.		



7.3.1.5 Auto Provision

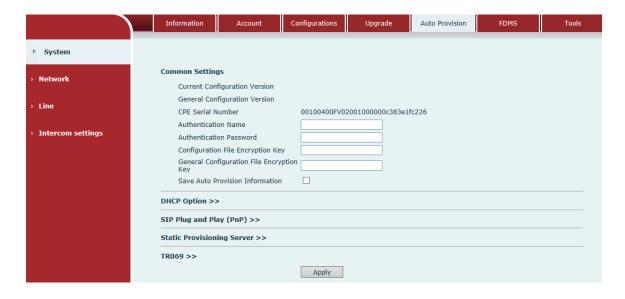


Figure 9

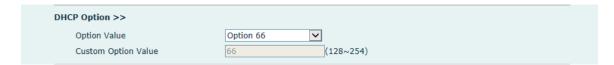


Figure 10



Figure 11



Figure 12



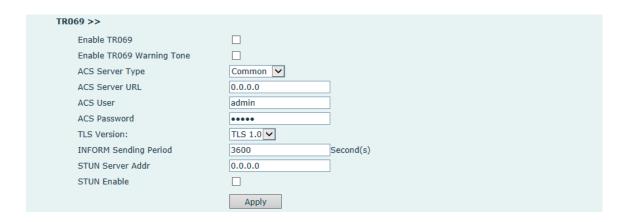


Figure 13

Auto Provision	
Field Name	Explanation
Common Settings	
Current Configuration Version	Show the current config file's version. If the version of configuration downloaded is higher than this, the configuration will be upgraded. If the endpoints confirm the configuration by the Digest method, the configuration will not be upgraded unless it differs from the current configuration
General Configuration Version	Show the common config file's version. If the configuration downloaded and this configuration is the same, the auto provision will stop. If the endpoints confirm the configuration by the Digest method, the configuration will not be upgraded unless it differs from the current configuration.
CPE Serial Number	Serial number of the equipment
Authentication Name	Username for configuration server. Used for FTP/HTTP/HTTPS. If this is blank the phone will use anonymous
Authentication	Password for configuration server. Used for
Password	FTP/HTTP/HTTPS.
Configuration File Encryption Key	Encryption key for the configuration file
General Configuration File Encryption Key	Encryption key for common configuration file
Save Auto Provision	Save the auto provision username and password in the phone
Information	until the server URL changes
DHCP Option	



	The equipment supports configuration from Option 43,		
Option Value	Option 66, or a Custom DHCP option. It may also be		
	disabled.		
Custom Option Value	Custom option number. Must be from 128 to 254.		
SIP Plug and Play (Pn	P)		
	If this is enabled, the equipment will send SIP SUBSCRIBE		
	messages to a multicast address when it boots up. Any SIP		
Enable SIP PnP	server understand that message will reply with a SIP NOTIFY		
	message containing the Auto Provisioning Server URL where		
	the phones can request their configuration.		
Server Address	PnP Server Address		
Server Port	PnP Server Port		
Transportation	Dr.D. Transfer must and LUDD on TCD		
Protocol	PnP Transfer protocol – UDP or TCP		
Update Interval	Interval time for querying PnP server. Default is 1 hour.		
Static Provisioning Ser	rver		
	Set FTP/TFTP/HTTP server IP address for auto update. The		
Server Address	address can be an IP address or Domain name with		
	subdirectory.		
Configuration File	Specify configuration file name. The equipment will use its		
Name	MAC ID as the config file name if this is blank.		
Protocol Type	Specify the Protocol type FTP, TFTP or HTTP.		
Update Interval	Specify the update interval time. Default is 1 hour.		
	1. Disable – no update		
Update Mode	2. Update after reboot – update only after reboot.		
	3. Update at time interval – update at periodic update interval		
TR069	TR069		
Enable TR069	Enable/Disable TR069 configuration		
ACS Server Type	Select Common or CTC ACS Server Type.		
ACS Server URL	ACS Server URL.		
ACS User	User name for ACS.		
ACS Password	ACS Password.		
TR069 Auto Login	Enable/Disable TR069 Auto Login.		
INFORM Sending	Time between transmissions of "Inform" is 2000 seem 1		
Period	Time between transmissions of "Inform" is 3600 seconds.		
•	•		



7.3.1.6 FDMS

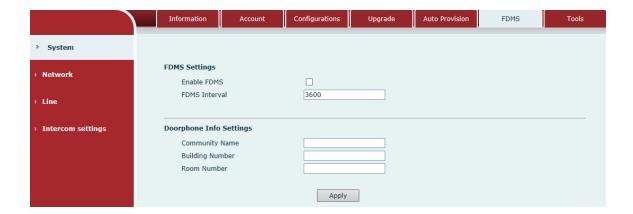


Figure 14

Diagram 7

FDMS Settings		
Enable FDMS	Enable/Disable FDMS configuration	
FDMS Interval	The time to send sip Subscribe information to the FDMS server on	
FDMS IIItervai	a regular basis. Unit is in second.	
Doorphone Info Settings		
Community	The name of the community where the device is installed	
Name	The name of the community where the device is installed	
Building	The name of the building where the equipment is installed	
Number	The name of the building where the equipment is installed	
Room Number	The name of the room where the equipment is installed	

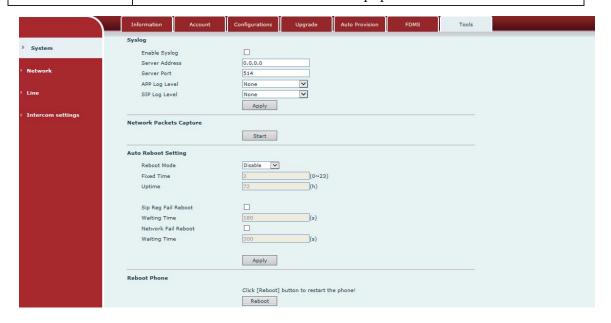


Figure 15



Syslog provide a client/server mechanism for the log messages which is recorded by the system. The Syslog server receives the messages from clients and classifies them based on priority and type. Then these messages will be written into a log by rules which the administrator has configured.

There are 8 levels of debug information.

Level 0: emergency; System is unusable. This is the highest debug info level.

Level 1: alert; Action must be taken immediately.

Level 2: critical; System is probably working incorrectly.

Level 3: error; System may work incorrectly.

Level 4: warning; System may work correctly but needs attention.

Level 5: notice; It is the normal but significant condition.

Level 6: Informational; It is the normal daily messages.

Level 7: debug; Debug messages normally used by system designer. This level can only be displayed via telnet.

7.3.1.7 Tools

Diagram 8

Tools	
Field Name	Explanation
Syslog	
Enable Syslog	Enable or disable system log.
Server Address	System log server IP address.
Server Port	System log server port.
APP Log Level	Set the level of APP log.
SIP Log Level	Set the level of SIP log.
NT (1 T) 1 (2

Network Packets Capture

Capture a packet stream from the equipment. This is normally used to troubleshoot problems.

Reboot Phone

Some configuration modifications require a reboot to become effective. Clicking the Reboot button will lead to reboot immediately.

Note: Be sure to save the configuration before rebooting.



7.3.2 Network

7.3.2.1 Basic



Figure 16

Field Name	Explanation
Network Status	
IP	The current IP address of the equipment
Subnet mask	The current Subnet Mask
Default gateway	The current Gateway IP address
MAC	The MAC address of the equipment
MAC Timestamp	Get the MAC address of time.
Settings	
Select the appropri	ate network mode. The equipment supports three network modes:
Static IP	Network parameters must be entered manually and will not change. All parameters are provided by the ISP.
DHCP	Network parameters are provided automatically by a DHCP server.
PPPoE	Account and Password must be input manually. These are provided by your ISP.
If Static IP is chosen, the screen below will appear. Enter values provided by the ISP.	
DNS Server	Select the Configured mode of the DNS Server.



Configured by	
Primary DNS	Estanda a mana del a primore DNC
Server	Enter the server address of the Primary DNS.
Secondary DNS	Estanda - manual dura ef de Cocondony DNC
Server	Enter the server address of the Secondary DNS.

Click the APPLY button after entering the new settings. The equipment will save the new settings and apply them. If a new IP address was entered for the equipment, it must be used to login to the phone after clicking the APPLY button.

Service Port Settings

Service 1 of t Settings	
Web Server Type	Specify Web Server Type – HTTP or HTTPS
	Port for web browser access. Default value is 80. Change this from
	the default to enhance security. Setting this port to 0 will disable
HTTP Port	HTTP access.
	Example: The IP address is 192.168.1.70 and the port value is
	8090, The accessing address is http://192.168.1.70:8090.
	Port for HTTPS access. An https authentication certification must
HTTPS Port	be downloaded into the equipment before using https.
	Default value is 443. Change this from the default to enhance
	security.

Note:

- 1) Any changes made on this page require a reboot to become active.
- 2) It is suggested that the make the values bigger than 1024 if users change the port to HTTPS. Values less than 1024 are reserved.
- 3) If the HTTP port is set to 0, HTTP service will be disabled.

7.3.2.2 **VPN**

The device supports remote connection via VPN. It supports both Layer 2 Tunneling Protocol (L2TP) and Open VPN protocol. This allows users securely connect from public network to local network remotely.



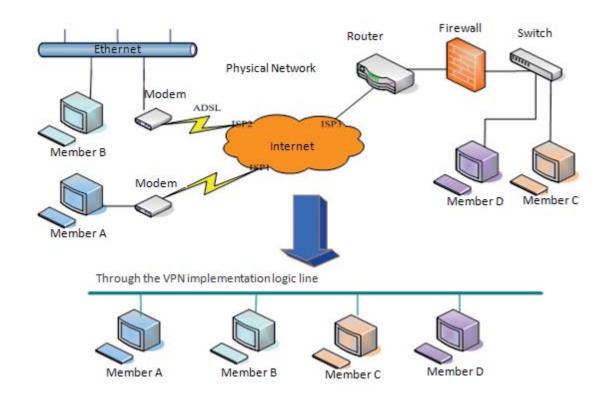


Figure 17



Figure 18

Diagram 10

Field Name	Explanation
VPN IP Address	Shows the current VPN IP address.



VPN Mode		
Enable VPN	Enable/Disable VPN.	
L2TP	Select Layer 2 Tunneling Protocol	
	Select OpenVPN Protocol. (Only one protocol may be activated.	
OpenVPN	After the selection is made, the configuration should be saved and	
	the phone be rebooted.)	
Layer 2 Tunneling Protocol (L2TP)		
L2TP Server	Set VPN L2TP Server IP address.	
Address	Set VIN L217 Server if address.	
Authentication	Set User Name access to VPN L2TP Server.	
Name	Set Oser Name access to VFN L217 Server.	
Authentication	Set Password access to VPN L2TP Server.	
Password	Set Fassword access to VFIV L21F Server.	
Open VPN Files		
Upload or delete C	pen VPN Certification Files	

7.3.3 Line

7.3.3.1 SIP

Configure a SIP server on this page.



Figure 19

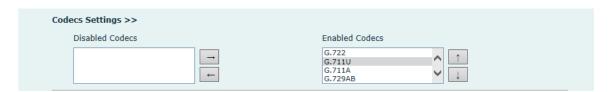




Figure 20

Advanced Settings >>			
Subscribe For Voice Message			
Voice Message Number			
Voice Message Subscribe Period	3600 Second(s)		
Enable DND		Ring Type	Default 🗸
Blocking Anonymous Call		Conference Type	Local 🗸
Use 182 Response for Call waiting		Server Conference Number	
Anonymous Call Standard	None	Transfer Timeout	0 Second(s)
Dial Without Registered		Enable Long Contact	
Click To Talk		Enable Use Inactive Hold	
User Agent		Use Quote in Display Name	
Response Single Codec			
Use Feature Code			
Enable DND		DND Disabled	
Enable Blocking Anonymous Call		Disable Blocking Anonymous Call	
Specific Server Type	COMMON	Enable DNS SDV	
Specific Server Type	COMMON V	Enable DNS SRV	CID Option
Registration Expiration	3600 Second(s)	Keep Alive Type	SIP Option Second(c)
Registration Expiration Use VPN	3600 Second(s)	Keep Alive Type Keep Alive Interval	SIP Option Second(s)
Registration Expiration Use VPN Use STUN	3600 Second(s)	Keep Alive Type Keep Alive Interval Sync Clock Time	60 Second(s)
Registration Expiration Use VPN Use STUN Convert URI	3600 Second(s)	Keep Alive Type Keep Alive Interval Sync Clock Time Enable Session Timer	60 Second(s)
Registration Expiration Use VPN Use STUN Convert URI DTMF Type	3600 Second(s) V RFC2833 V	Keep Alive Type Keep Alive Interval Sync Clock Time Enable Session Timer Session Timeout	60 Second(s) 0 Second(s)
Registration Expiration Use VPN Use STUN Convert URI DTMF Type DTMF SIP INFO Mode	3600 Second(s) V RFC2833 V Send */# V	Keep Alive Type Keep Alive Interval Sync Clock Time Enable Session Timer Session Timeout Enable Rport	60 Second(s) 0 Second(s)
Registration Expiration Use VPN Use STUN Convert URI DTMF Type DTMF SIP INFO Mode Transportation Protocol	3600 Second(s) RFC2833 Second(s) Second(s)	Keep Alive Type Keep Alive Interval Sync Clock Time Enable Session Timer Session Timeout Enable Rport Enable PRACK	60 Second(s) □ 0 Second(s) ✓
Registration Expiration Use VPN Use STUN Convert URI DTMF Type DTMF SIP INFO Mode Transportation Protocol Local Port	3600 Second(s) RFC2833 V Send */# V UDP V 5060	Keep Alive Type Keep Alive Interval Sync Clock Time Enable Session Timer Session Timeout Enable Rport Enable PRACK Auto Change Port	60 Second(s) □ 0 Second(s) ✓
Registration Expiration Use VPN Use STUN Convert URI DTMF Type DTMF SIP INFO Mode Transportation Protocol Local Port SIP Version	3600 Second(s) RFC2833 V Send */# V UDP V 5060 RFC3261 V	Keep Alive Type Keep Alive Interval Sync Clock Time Enable Session Timer Session Timeout Enable Rport Enable PRACK Auto Change Port Keep Authentication	60 Second(s) □ 0 Second(s) ✓ ✓ ✓
Registration Expiration Use VPN Use STUN Convert URI DTMF Type DTMF SIP INFO Mode Transportation Protocol Local Port SIP Version Caller ID Header	3600 Second(s) RFC2833 Send */# UDP 5060 RFC3261 PAI-RPID- PAI-RPID-	Keep Alive Type Keep Alive Interval Sync Clock Time Enable Session Timer Session Timeout Enable Rport Enable PRACK Auto Change Port Keep Authentication Auto TCP	60 Second(s) 0 Second(s) V V U
Registration Expiration Use VPN Use STUN Convert URI DTMF Type DTMF SIP INFO Mode Transportation Protocol Local Port SIP Version Caller ID Header Enable Strict Proxy	3600 Second(s) RFC2833 Send */# UDP 5060 RFC3261 PAI-RPID-	Keep Alive Type Keep Alive Interval Sync Clock Time Enable Session Timer Session Timeout Enable Rport Enable PRACK Auto Change Port Keep Authentication Auto TCP Enable Feature Sync	60 Second(s) □ 0 Second(s) ✓ ✓ ✓
Registration Expiration Use VPN Use STUN Convert URI DTMF Type DTMF SIP INFO Mode Transportation Protocol Local Port SIP Version Caller ID Header Enable Strict Proxy Enable user=phone	3600 Second(s) RFC2833 Send */# UDP 5060 RFC3261 PAI-RPID- V	Keep Alive Type Keep Alive Interval Sync Clock Time Enable Session Timer Session Timeout Enable Rport Enable PRACK Auto Change Port Keep Authentication Auto TCP	60 Second(s) 0 Second(s) V V U
Registration Expiration Use VPN Use STUN Convert URI DTMF Type DTMF SIP INFO Mode Transportation Protocol Local Port SIP Version Caller ID Header Enable Strict Proxy	3600 Second(s) RFC2833 Send */# UDP 5060 RFC3261 PAI-RPID-	Keep Alive Type Keep Alive Interval Sync Clock Time Enable Session Timer Session Timeout Enable Rport Enable PRACK Auto Change Port Keep Authentication Auto TCP Enable Feature Sync	60 Second(s) 0 Second(s) V V U
Registration Expiration Use VPN Use STUN Convert URI DTMF Type DTMF SIP INFO Mode Transportation Protocol Local Port SIP Version Caller ID Header Enable Strict Proxy Enable user=phone Enable SCA	3600 Second(s) V RFC2833 V Send */# V UDP V 5060 RFC3261 V PAI-RPID- V	Keep Alive Type Keep Alive Interval Sync Clock Time Enable Session Timer Session Timeout Enable Rport Enable PRACK Auto Change Port Keep Authentication Auto TCP Enable Feature Sync Enable GRUU	60 Second(s) 0 Second(s) V V U
Registration Expiration Use VPN Use STUN Convert URI DTMF Type DTMF SIP INFO Mode Transportation Protocol Local Port SIP Version Caller ID Header Enable Strict Proxy Enable user=phone	3600 Second(s) RFC2833 Send */# UDP 5060 RFC3261 PAI-RPID- V	Keep Alive Type Keep Alive Interval Sync Clock Time Enable Session Timer Session Timeout Enable Rport Enable PRACK Auto Change Port Keep Authentication Auto TCP Enable Feature Sync	60 Second(s) 0 Second(s) V V U

Figure 21

SIP	
Field Name	Explanation
Basic Settings (Choo	ose the SIP line to configured)
	Display the current line status at page loading. To get the up to
	date line status, user has to refresh the page manually. There are
	some status here:
Line Status	1) Inactive, indicates that this line is not activated yet, user can
	activate the line by selecting the option "activate".
	2) Timeout, indicates the SIP registration status timeout. It means
	that there's no response from SIP server. User may need to check



the network or SIP server IP address and port. 3) Registered, indicates the SIP account is registered to SII server successfully, and is able to send or receive calls. 4) 403 forbidden, indicates the SIP error code 403, means SII server rejected the SIP registration because the username and password are incorrect. User will need to check the username and password which were provided by SIP server. 5) Other SIP error code, check SIP protocol standard, or contact support. Enter the username of the service account, assigned by IPPB3 administrator, or provided by ISP provider. Display name Enter the display name to be sent in a call request. Authentication Name assigned by IPPBX administrator, or provided by ISP provider. Authentication Enter the authentication password of the service account, which is assigned by IPPBX administrator, or provided by ISP provider. Authentication Enter the authentication password of the service account, which is assigned by IPPBX administrator, or provided by ISP provider. Activate Whether the service of the line should be activated SIP Proxy Server Address SIP Proxy Server Port Enter the IP or FQDN address of the SIP proxy server Enter the IP or FQDN address of outbound proxy server provided by the service provider Outbound proxy Enter the IP or FQDN address of outbound proxy server provided by the service provider Outbound proxy Enter the outbound proxy port, default is 5060
server successfully, and is able to send or receive calls. 4) 403 forbidden, indicates the SIP error code 403, means SII server rejected the SIP registration because the username and password are incorrect. User will need to check the username and password, they must be matched with the username and password which were provided by SIP server. 5) Other SIP error code, check SIP protocol standard, or contact support. Username Enter the username of the service account, assigned by IPPB2 administrator, or provided by ISP provider. Display name Enter the display name to be sent in a call request. Authentication Name SIP error code, check SIP protocol standard, or contact support. Enter the display name to be sent in a call request. Authentication Enter the authentication name of the service account, which is assigned by IPPBX administrator, or provided by ISP provider. Authentication Enter the authentication password of the service account, which is assigned by IPPBX administrator, or provided by ISP provider. Activate Whether the service of the line should be activated SIP Proxy Server Address SIP Proxy Server Port Enter the IP or FQDN address of the SIP proxy server Enter the SIP proxy server port, default is 5060 Outbound proxy Enter the IP or FQDN address of outbound proxy server provided by the service provider Outbound proxy Enter the outbound proxy port, default is 5060
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Outbound proxy Enter the outbound proxy port, default is 5060
Enter the outbound proxy port, default is 5060
Enter the outbound proxy port, default is 5060
port
Realm Enter the SIP domain if requested by the service provider
Codecs Settings
Set the priority and availability of the codecs by adding or remove them from the list.
Advanced Settings
Enable the device to subscribe a voice message waiting
Subscribe For notification, if enabled, the device will receive notification from
Voice Message the server if there is voice message waiting on the server
Voice Message
Number Set the number for retrieving voice message
Voice Message
Set the interval of voice message notification subscription
Subscribe Period



	rejected automatically	
Blocking		
Anonymous Call	Reject any incoming call without presenting caller ID	
Use 182 Response		
for Call waiting	Set the device to use 182 response code at call waiting response	
Anonymous Call	Set the standard to be used for anonymous	
Standard	Set the standard to be used for anonymous	
Dial Without	Set call out by proxy without registration	
Registered	Set can out by proxy without registration	
Click To Talk	Set Click To Talk	
User Agent	Set the user agent, the default is Model with Software Version.	
Response Single	If setting enabled, the device will use single codec in response to	
Codec	an incoming call request	
Ring Type	Set the ring tone type for the line	
	Set the type of call conference, Local=set up call conference by	
Conference Type	the device itself, maximum supports two remote parties,	
Conference Type	Server=set up call conference by dialing to a conference room on	
	the server	
Server Conference	Set the conference room number when conference type is set to	
Number	be Server	
Transfer Timeout	Set the timeout of call transfer process	
Enable Long Contact	Allow more parameters in contact field per RFC 3840	
Use Quote in Display Name	Whether to add quote in display name	
	When this setting is enabled, the features in this section will not be handled by the device itself but by the server instead. In order	
Use Feature Code	to control the enabling of the features, the device will send	
	feature code to the server by dialing the number specified in each	
	feature code field.	
Specific Server	Set the line to calleborate spide are sife as	
Туре	Set the line to collaborate with specific server type	
Registration	Set the SID expiration internal	
Expiration	Set the SIP expiration interval	
Use VPN	Set the line to use VPN restrict route	
Use STUN	Set the line to use STUN for NAT traversal	
Convert URI	Convert not digit and alphabet characters to %hh hex code	
DTMF Type	Set the DTMF type to be used for the line	



DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'
Transportation Protocol	Set the line to use TCP or UDP for SIP transmission
Local Port	Set the Local Port
SIP Version	Set the SIP version
Caller ID Header	Set the Caller ID Header
Enable Strict Proxy	Enables the use of strict routing. When the phone receives packets from the server, it will use the source IP address, not the address in via field.
Enable user=phone	Sets user=phone in SIP messages.
Enable SCA	Enable/Disable SCA (Shared Call Appearance)
Enable BLF List	Enable/Disable BLF List
Enable DNS SRV	Set the line to use DNS SRV which will resolve the FQDN in proxy server into a service list
Keep Alive Type	Set the line to use dummy UDP or SIP OPTION packet to keep NAT pinhole opened
Keep Alive Interval	Set the keep alive packet transmitting interval
Enable Session Timer	Set the line to enable call ending by session timer refreshment. The call session will be ended if there is not new session timer event update received after the timeout period
Session Timeout	Set the session timer timeout period
Enable rport	Set the line to add rport in SIP headers
Enable PRACK	Set the line to support PRACK SIP message
Enable DNS SRV	Set the line to use DNS SRV which will resolve the FQDN in proxy server into a service list
Auto Change Port	Enable/Disable Auto Change Port
Keep Authentication	Keep the authentication parameters from previous authentication
Auto TCP	Using TCP protocol to guarantee usability of transport for SIP messages above 1500 bytes
Enable Feature Sync	Feature Sycn with server
Enable GRUU	Support Globally Routable User-Agent URI (GRUU)
RTP Encryption	Enable RTP encryption such that RTP transmission will be encrypted
RTP Encryption Key	Set the pass phrase for RTP encryption



7.3.3.2 Basic setting

STUN – Simple Traversal of UDP through NAT –A STUN server allows a phone in a private network to know its public IP and port as well as the type of NAT being used. The equipment can then use this information to register itself to a SIP server so that it can make and receive calls while in a private network.

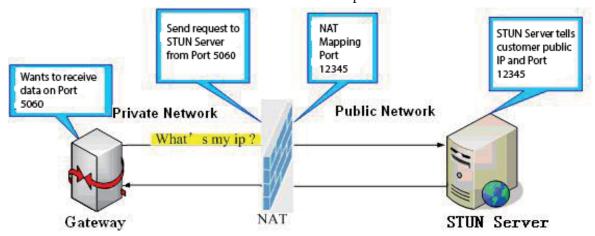


Figure 22

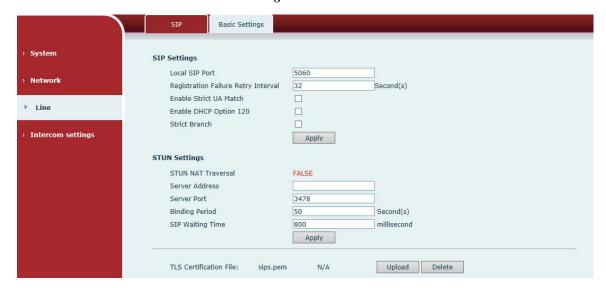


Figure 23

Diagram 12

Basic Settings		
Field Name Explanation		
SIP Settings		
Local SIP Port	Set the local SIP port used to send/receive SIP messages.	



Registration Failure Retry	Set the retry interval of SIP REGISTRATION when registration failed.	
Interval		
Enable Strict UA	Enable or disable Strict UA Match	
Match	Enable of disable Strict OA Watch	
	DHCP Server would respond an OPTION message to the request	
	from DHCP client. To working with the terminal device, Access	
	device and DHCP policy server would be able to implement the	
Enable DHCP Option 120	zero configuration and auto provisioning. OPTION 120 is one of	
	the OPTIONS in which the device could obtain the SIP server	
	address from the ACK response sent back by the DHCP server.	
	Then the SIP Agent of terminal device starts register with the SIP	
	server address.	
Strict Branch	h The value determined whether it's exactly matched the Branch	
STUN Settings		
Server Address	STUN Server IP address	
Server Port	STUN Server Port – Default is 3478.	
Binding Period	STUN blinding period – STUN packets are sent at this interval to	
	keep the NAT mapping active.	
SIP Waiting	Will do GED THE THE A STATE OF	
Time	Waiting time for SIP. This will vary depending on the network.	

TLS Certification File

Upload or delete the TLS certification file used for encrypted SIP transmission.

Note: the SIP STUN is used to achieve the SIP penetration of NAT, and the realization of a service, when the equipment configuration of the STUN server IP and port (usually the default is 3478), and select the Use Stun SIP server, the use of NAT equipment to achieve penetration.



7.3.4 Intercom settings

7.3.4.1 Features



Figure 24

Features		
Field Name Explanation		
Basic Settings		
Enable DND	DND might be disabled phone for all SIP lines, or line for SIP	
Eliable DND	individually. But the outgoing calls will not be affected	
Ban Outgoing	If enabled, no outgoing calls can be made.	
Enable Intercom	If enabled, mutes incoming calls during an intercom call.	
Mute	in enabled, mates incoming cans during an intercom can.	
Enable Intercom	If enabled, plays intercom ring tone to alert to an intercom call.	
Ringing	in enabled, plays intercom ring tone to alert to all intercom can.	
Enable Auto	Enable Auto Answer function	
Answer	Enable Auto Aliswer function	
Auto Answer	Set Auto Answer Timeout	
Timeout	Set ratio ranswer rancout	
No Answer Auto	Enable automatically hang up when no answer	
Hangup	Enable automatically hang up when no answer	
Auto Hangup	Configuration in a set time, automatically hang up when no	
Timeout	answer	
Voice Read IP	Enable or disable voice broadcast IP address	
Voice Play	Set language of the voice prompt	
Language		
Enable Delay Start	Enable or disable the start delay	
Delay Start Time	Set start delay time	
Description	Device description displayed on IP scanning tool software. Initial	



Value is "SIP Speaker".

7.3.4.2 Audio

This page configures audio parameters such as voice codec; speak volume, MIC volume and ringer volume.



Figure 25

Diagram 14

Audio Setting		
Field Name	Explanation	
E' . C . 1	The first codec choice: G.711A/u, G.722, G.723.1, G.729AB,	
First Codec	G.726-32	
Second Codes	The second codec choice: G.711A/u, G.722, G.723.1, G.729AB,	
Second Codec	G.726-32, None	
Third Codec	The third codec choice: G.711A/u, G.722, G.723.1, G.729AB,	
Third Codec	G.726-32, None	
Fourth Codec	The forth codec choice: G.711A/u, G.722, G.723.1, G.729AB,	
Fourth Codec	G.726-32, None	
DTMF Payload	The RTP Payload type that indicates DTMF. Default is 101	
Type		
Default Ring	Ring Sound – There are 9 standard types and 3 User types.	
Туре		
G.729AB	G.729AB Payload Length – Adjusts from 10 – 60 ms.	



Payload Length			
Tone Standard	Configure tone standard area.		
G.722	GI : 1.50.700 000.700		
Timestamps	Choices are 160/20ms or 320/20ms.		
G.723.1 Bit Rate	Choices are 5.3kb/s or 6.3kb/s.		
Speakerphone			
Volume	Set the speaker calls the volume level.		
MIC Input			
Volume	Set the MIC calls the volume level.		
Broadcast	Set the breedeset the output volume level		
Output Volume	Set the broadcast the output volume level.		
Signal Tone	Set the oudio signal the output valume level		
Volume	Set the audio signal the output volume level.		
Enable VAD	Enable or disable Voice Activity Detection (VAD). If VAD is		
Eliable VAD	enabled, G729 Payload length cannot be set greater than 20 ms.		
Speaker Settings			
These settings are	only for the devices which support multiple output power. Be aware		
of that, the selec	of that, the selected output power must be less than the real output power of the		
external speaker, o	otherwise the external speaker might be damaged.		
	The embedded speaker can be set to use static output power mode, and the		
Speaker	external speak can be set as 10W, 20W, 30W output power. NOTE: this		
	device support embedded speaker		
External Speaker	Set the external speaker power, it must be lower than the real power of the		
Power	external speaker, otherwise the external speaker might be damaged.		
AEC Settings			
Speaker Limit in	Limit maximum volume of the speaker while it's in the two-way		
Double Talk	conversation, the bigger the value, the loader the volume allowed.		
	While there's no talking on the conversation, the background noise will be		
Local Noise	inhibited, this value determined how much it's inhibited. The higher the		
Inhibition in No	value, the more background noise will be inhibited. It's not recommended to		
Talking	set it too big, because there will be more background noise while talking in		
	the conversation.		
Speaker Inhibition	Set the speaker inhibition while it's in the two-way conversation, the higher		
in Double Talk	Talk of the inhibition value, the smaller of the volume.		
Mic Inhibition in	Set the MIC inhibition while it's in the two-way conversation, the higher of		
Double Talk	the inhibition value, the smaller of the volume.		



7.3.4.3 Video



Figure 26

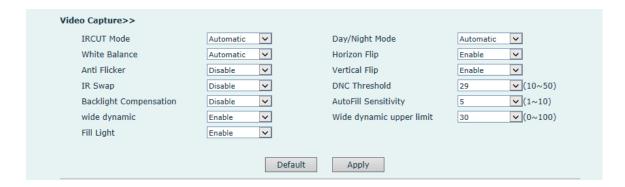


Figure 27

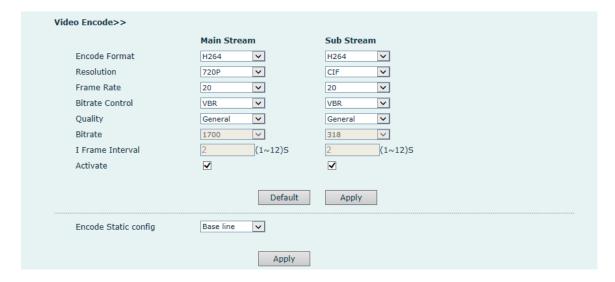


Figure 28





Figure 29

Video			
Field Name	Explanation		
Camera Status: Display the relevant information of the camera, including maximum			
access, maximum	n stream, maximum sub stream, and the status.		
Authentication	Setting		
MAC	MAC address		
Auth Code	Enter authentication code to activate use		
Connection mod	le setting		
Local	Connect the original camera		
External	Connect to another manufacturers camera		
Video Capture			
	Auto: IRCUT switches according to the actual ambient light level of		
IRCUT Mode	the camera		
IRCUT Mode	Synchronization: The switching of the IRCUT is determined by the		
	actual brightness of the IR lamp.		
	Automatic: automatically switches according to the DNC Threshold		
	and the brightness of the actual environment where the camera is		
Day/Night	located		
Mode	Day Mode: The camera's video screen is always colored, if there is		
Mode	IR-cut will be synchronized to switch.		
	Night Mode: the camera's video screen is always black and white, if		
	there is IR-cut will be synchronized switch.		
	Automatic: Automatically adjusts according to the actual		
White Balance	environment in which the camera is located.		
White Balance	Outdoor: installed in the outdoor preferred.		
	Indoor: installed in the room preferred.		
Horizon Flip	Horizon Flip The video is flipped horizontally		



Anti Flicker	Enable the option. In a fluorescent environment can eliminate the video horizontal scroll	
Vertical Flip	The video is flipped horizontally	
IR Swap	IR-cut filter switch	
DNC Threshold	In the Day / Night mode Auto option, the color switching black and white threshold is set	
Backlight	In front of a very strong background light can see people or objects	
Compensation	clearly	
AutoFill	In the environment changes in light and shade, the higher the	
Sensitivity	sensitivity the faster the video changes	
wide Dynamic	Set wide dynamic	
Wide Dynamic	Change the brightness of the background image, the higher the	
Upper Limit	brighter.	
Fill Light	Enable or disable Fill Light	
Video Encode		
Encode Format	ncode Format Only H.264 encoding format is supported	
D 1 .:	Main stream: support 720P	
Resolution	Sub-stream: you can select CIF (352 * 288), D1 (720 * 576)	
Frame Rate The larger the value is, the more coherent the video would be not recommend adjusted.		
	CBR: If the code rate (bandwidth) is insufficient, it is preferred.	
Bitrate Control	VBR: Image quality is preferred, not recommended.	
Quality	Video quality adjustment, the better the quality needs to transfer faster	
Bit rate	It is proportional to video file size, not recommend adjusted.	
I Frame Interval The greater the value is, the worse the video quality otherwise the better video quality would be; not radjusted.		
Activate	When you selected it, the stream is enabled, otherwise disabled	
Encode Static co	onfig	
Select the video codec type, it's recommended to use "Base Line" to stay the same as		
the video output or stream receiver.		
Advanced Settings		
Video	Color the transport type of the video street	
Direction	Select the transport type of the video stream	
H.264 Payload	Payload Set the payload type of H 264	
Type	Set the payload type of H.264	



RTSP Information			
Main	Stream	Access the main address of RTSP	
Url		Access the main address of RTSP	
Sub Stream Url		Access the child address of RTSP	

7.3.4.4 MCAST

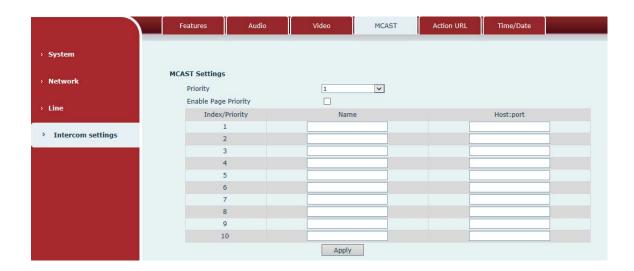


Figure 30

It is easy and convenient to use multicast function to send notice to each member of the multicast via setting the multicast key on the device and sending multicast RTP stream to pre-configured multicast address. By configuring monitoring multicast address on the device, monitor and play the RTP stream which sent by the multicast address.

MCAST Settings

Equipment can be set up to monitor up to 10 different multicast address, used to receive the multicast RTP stream sent by the multicast address.

Here are the ways to change equipment receiving multicast RTP stream processing mode in the Web interface: set the ordinary priority and enable page priority.

■ Priority:

In the drop-down box to choose priority of ordinary calls the priority, if the priority of the incoming flows of multicast RTP, lower precedence than the current common calls, device will automatically ignore the group RTP stream. If the priority of the incoming flow of multicast RTP is higher than the current common calls priority, device will automatically receive the group RTP stream, and keep the



current common calls in state. You can also choose to disable in the receiving threshold drop-down box, the device will automatically ignore all local network multicast RTP stream.

- The options are as follows:
 - ♦ 1-10: To definite the priority of the common calls, 1 is the top level while 10 is the lowest
 - ♦ Disable: ignore all incoming multicast RTP stream
 - ♦ Enable the page priority:

Page priority determines the device how to deal with the new receiving multicast RTP stream when it is in multicast session currently. When Page priority switch is enabled, the device will automatically ignore the low priority multicast RTP stream but receive top-level priority multicast RTP stream and keep the current multicast session in state; If it is not enabled, the device will automatically ignore all receiving multicast RTP stream.

■ Web Settings:



Figure 31

The multicast SS priority is higher than that of EE, which is the highest priority. Note: when pressing the multicast key for multicast session, both multicast sender and receiver will beep.

• Listener configuration

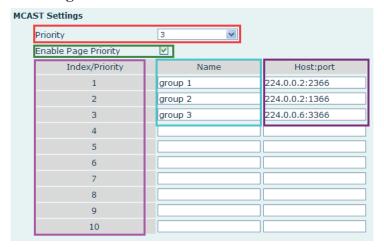


Figure 32

■ Blue part (name)



"Group 1", "Group 2" and "Group 3" are your setting monitoring multicast name. The group name will be displayed on the screen when you answer the multicast. If you have not set, the screen will display the IP: port directly.

■ Purple part (host: port)

It is a set of addresses and ports to listen, separated by a colon.

■ Pink part (index / priority)

Multicast is a sign of listening, but also the monitoring multicast priority. The smaller number refers to higher priority.

■ Red part (priority)

It is the general call, non multicast call priority. The smaller number refers to high priority. The followings will explain how to use this option:

- ♦ The purpose of setting monitoring multicast "Group 1" or "Group 2" or "Group 3" launched a multicast call.
- ♦ All equipment has one or more common non multicast communication.
- ♦ When you set the Priority for the disable, multicast any level will not answer, multicast call is rejected.
- ♦ when you set the Priority to a value, only higher than the priority of multicast can come in, if you set the Priority is 3, group 2 and group 3 for priority level equal to 3 and less than 3 were rejected, 1 priority is 2 higher than ordinary call priority device can answer the multicast message at the same time, keep the hold the other call.

■ Green part (Enable Page priority)

Set whether to open more priority is the priority of multicast, multicast is pink part number. Explain how to use:

- ♦ The purpose of setting monitoring multicast "group 1" or "3" set up listening "group of 1" or "3" multicast address multicast call.
- ♦ All equipment has been a path or multi-path multicast phone, such as listening to "multicast information group 2".
- ❖ If multicast is a new "group of 1", because "the priority group 1" is 2, higher than the current call "priority group 2" 3, so multicast call will can come in.
- → If multicast is a new "group of 3", because "the priority group 3" is 4, lower
 than the current call "priority group 2" 3, "1" will listen to the equipment and
 maintain the "group of 2".

Multicast service

Send: when configured ok, our key press shell on the corresponding equipment, equipment directly into the Talking interface, the premise is to ensure no current multicast call and 3-way of the case, the multicast can be established.

Lmonitor: IP port and priority configuration monitoring device, when the



call is initiated and incoming multicast, directly into the Talking interface equipment.

7.3.4.5 Action URL

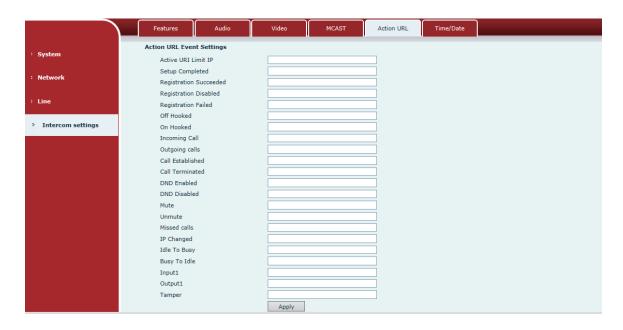


Figure 33

Diagram 16

Action URL Settings

URL for various actions is performed by the phone. These actions are recorded and sent as xml files to the server. Sample format is http://InternalServer/FileName.xml

7.3.4.6 Time/Date

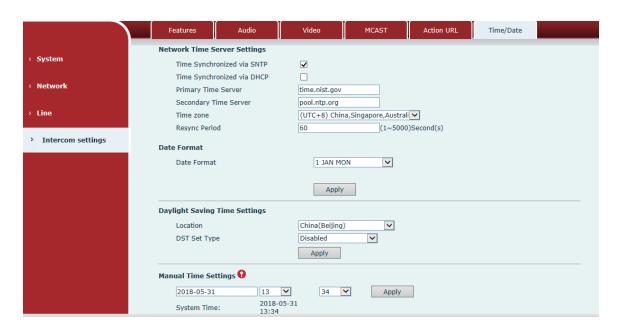




Figure 34

Time/Date			
Field Name	Explanation		
Network Time Ser	Network Time Server Settings		
Time			
Synchronized via	Enable time-sync through SNTP protocol		
SNTP			
Time			
Synchronized via	Enable time-sync through DHCP protocol		
DHCP			
Primary Time	Set primary time server address		
Server	Set primary time server address		
Sacandary Time	Set secondary time server address, when primary server is not reachable, the		
Secondary Time Server	device will try to connect to secondary time server to get time		
Server	synchronization.		
Time zone	Select the time zone		
Resync Period	Time of re-synchronization with time server		
Date Format			
Date Format	Select the time/date display format		
Daylight Saving T	ime Settings		
Location Select the user's time zone specific area			
DCT Cat Tuna	Select automatic DST according to the preset rules of DST, or the manually		
DST Set Type	input rules		
Manual Time Settings			
The time set by hand, need to disable SNTP service first.			



8 Appendix

8.1 Technical parameters

Diagram 18

Communication protocol		SIP 2.0(RFC-3261)
Main chipset		Broadcom
Button	Reset	One
	Volume	Two
	Protocols	RTP/SRTP
Speech	Decoding	G.729、G.723、G.711、G.722、G.726
flow	Audio amplifier	Max 30W
	Volume control	Adjustable
LED	Indicating lamp	One
	Power	One
Port	WAN	10/100BASE-TX s Auto-MDIX, RJ-45
	LAN	10/100BASE-TX s Auto-MDIX, RJ-45
power supply mode		12V 2A DC∼24V 2A DC or POE
Cables		CAT5 or better
working to	emperature	-10°C to 50°C
working humidity		20% - 80%
storage temperature		-10°C to 50°C
overall dimension		165x240x185mm (W x H x L)
Package dimensions		260x315x305mm (W x H x L)
Package weight		3.1KG

8.2 Basic functions

- 2 SIP lines
- POE enabled (Power over Ethernet)
- Support for dc power supply
- Support VLAN
- Support camera linkage
- Wall-mount installation
- Multicast



8.3 Schematic diagram

On the back of the interface diagram

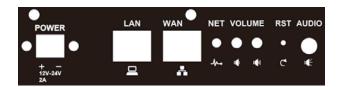




Figure 35

8.4 The radio terminal configuration notice

♦ How to avoid an incoherency sound when the broadcast playing?

When the terminal use as broadcast, the speaker is loud, if not set mute for microphone, the AEC (echo cancellation) of equipment will be activated, which leads the sound incoherence. In order to avoid such circumstance, when the equipment turn to use as radio should be set as intercom mode, and activate the intercom mute, so as to ensure the broadcast quality.



Figure 36

♦ How to improve broadcasting tone quality?

In order to obtain better broadcast quality, recommend the use of the HD (G.722) mode for broadcast.



Voice bandwidth will be by the narrow width (G.711) of 4 KHz, is extended to broadband (G.722)7 KHz, when combined with the active speaker, the effect will be better.

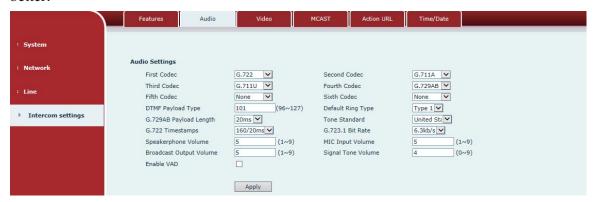


Figure 37