

SIP Intercom System

IP Intercom

DSP9322A

DSP9322B





DSP9322A

DSP9322B

User Manual

Thank you for using our DSPPA public address system. Please read this User Manual carefully to make better use of this equipment.

Guangzhou DSPPA Audio Co., Ltd.

http://www.DSPPA.com

http://www.dsppatech.com



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 suffocation.
- 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.



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A. Product introduction

This product is a fully digital network intercom equipment, its core part adopts mature VOIP solutions (Broadcom 1190), the performance is stable and reliable; the digital full duplex hands-free, voice loud and clear; the keys feel comfortable, simple installation, appearance, durable, low power consumption.

1. Appearance of the product





2. Button description

Buttom	Description	Function
	programmable keys	Can be set to a variety of functions, in order to meet the needs of different occasions

B. Start Using

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

1. Connecting the power supply and the network

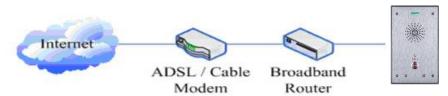
(1) Connecting network

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. Please refer to the detailed setting ways: **D**, **3**, **(2)**, **a)** WAN.



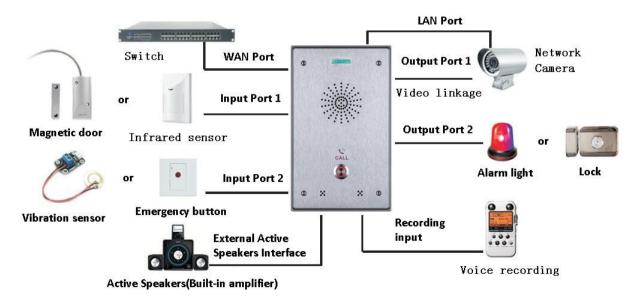
No Broadband Router

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. Please refer to the detailed setting ways: **D**, **3**, **(2)**, **a) WAN**.



(2) Interface specification

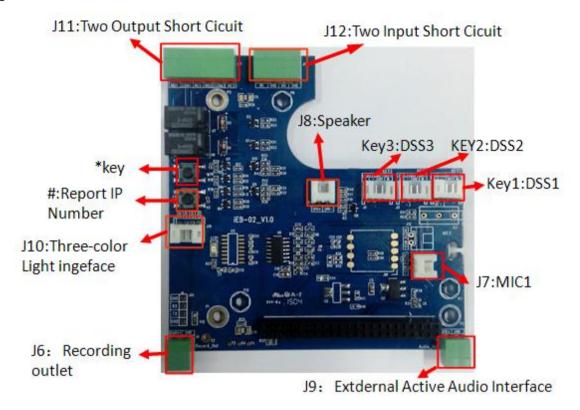
a) Schematic diagram of peripherals



b) Interface specification

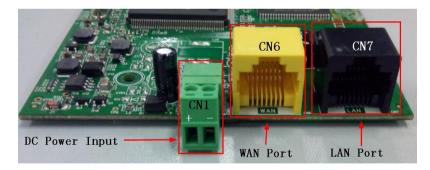


Expansion board interface



[Notice] Press "#"key for 3 seconds, the controller will report it IP number by itself.

Motherboard interface



CN1	CN6	CN7
Power Supply	WAN Port	LAN Port
+9~+16V	WAN	LAN
CN1	CN6	CN7

[Notice]LAN port Support two modes:

- ♦ Routing mode (It can assign IP Address to LAN port the via the DHCP for each connected device)
- ♦ Bridge Mode (LAN port and WAN port are in the same network segment)



• Port description

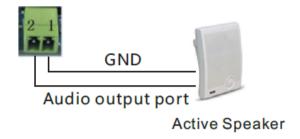
	scription	T. A	D' 4	
Port	Description	Feature	Picture	
CN1	DC Downer Input nort	Input Range:+9~+16V DC	CN1	
CIVI	DC Power Input port	(Notice: Plus-n-Minus connection of the Power)		
CN6	WAN port	10M/100M Adaptive Ethernet port, connected to the network	CN6	
CNA	LAND	10M/100M Adaptive Ethernet port, connected to the computer	CN7	
CN7	LAN Port	(which can be configured to routing mode, or to bridge mode)		
10	External Active	One is the audio signal line, one is the GND line(Please connect to		
J9	Speakers port	the GND line, otherwise there will be noise)	A P	
	Andin Donalina	By mixing equipment and remote call voice output.		
J6	Audio Recording	One is the audio signal line, one is the GND line(Please connect to		
	output port	the GND line, otherwise there will be noise)		
Key1/key2/	DSS key port	Function keys. Can be defined hot keys, function keys(such as		
key3	(programmable keys)	hanging up, hands-free), multicast keys	LEDT- LEDT-	
711	Short circuit output			
J11	control Port	Used to control electric locks, alarm lamp and so on	AAAAAA	
110	Short circuit Input	Used to connect to infrared detector, magnetic switch, vibration		
J12	detection Port	sensor and other input devices	-	
110	Status indicator light	For an external status instructions (calling, ringing,		
J10	port	network/registered)		

c) Port instructions

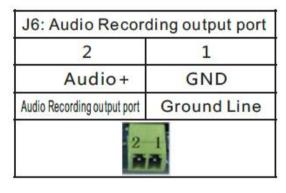
• External Active Speakers

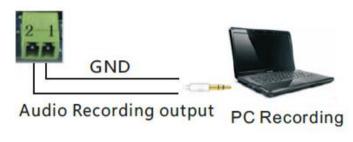
* * SIP Intercom System

J9: External Active Speakers Port			
2 1			
SPK+ GND			
Audio output port Ground Line			
2-1			



• Audio Recording output port

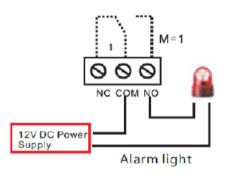




• Two short circuit output port

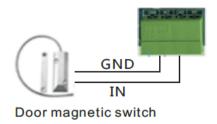
- NO: Under the idle state is disconnected (normally open).
- COM: Contactor of the Relay (middle).
- ➤ NC: Under the idle state is connected (normally close).

,	J11: Short circuit output Port				
Output Port1(OUT2)			Output Port1(OUT1)		
6	5	4	3	2	1
NC2	СОМ2	NO2	NC1	COM1	NO1
	Common terminal		Normal close	Common terminal	Normal Open
6 5 4 3 2-1 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					



• Two short circuit input port

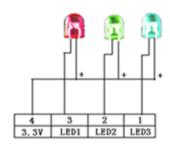
J1:	J12: Short circuit Input Port					
Input Po	rt2(IN2)	Input Port1(IN1)				
4	3	2	1			
GND	GND IN2 GND		IN1			
Input Port2 Input Port2		Input Port1	Input Port1			
4 3 2 1						



• Status lamp interface



J10: Status lamp interface				
4	3	2	1	
3.3V	LED1	LED2	LED3	
Power supply	Network	Call	Ringing	
4 2 1				

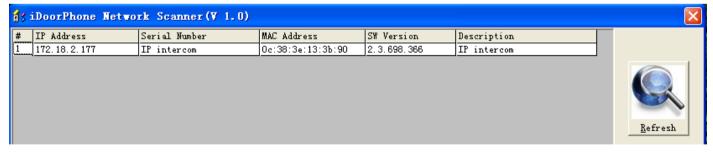


2. Quick Setting

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 broadband access can be normal operation, and complete the connection to the network hardware. The intercom default for DHCP mode.

- A long press # key 3 seconds, automatic voice playing device's IP address, or use the "iDoorPhoneNetworkScanner.exe" software to find 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 settings DSS key in the Webpage(functions key settings -> function key).
- You can settings function parameters in the Webpage (Intercom-> feature).



C. Basic operation

1. Answer a call

When calling come, the device automatically answer, in cancel automatic answer and settings automatic answer time, will hear the bell in the set time, automatic answer after a timeout.

2. call

Configuration shortcut as hot key and setup a number, then press shortcut can call the configured

number immediately.

3. End call

Enable Release key hang up to end call.

4. Call record

The device provides 300 call recording, when the storage space is exhausted, will cover the first call records. When the device is powered down or reboot, call records will be removed.

You can view the three call records in the Webpage (Basic->call log)

D. Page settings

1. Browser configuration

When the device and your computer successfully connected to the network, the on browsers enter the IP address of the device. 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.



After configuring the equipment, remember to click SAVE under the Maintenance tab. If this is not done, the equipment will lose the modifications when it is rebooted.

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



3. Configuration via WEB

(1) BASIC

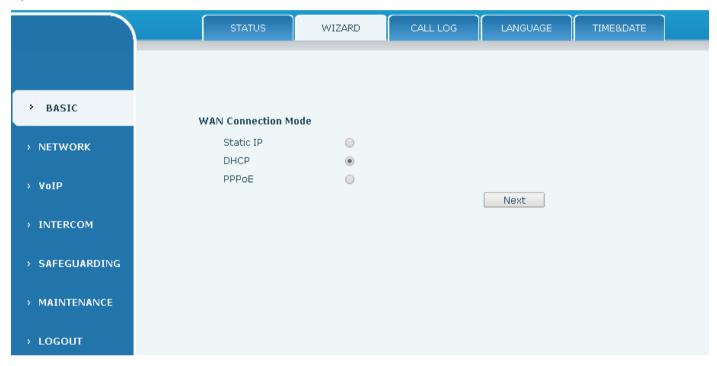
a) STATUS



Status			
Field Name	Explanation		
	Shows the configuration information for WAN and LAN port, including connection		
Network	mode of WAN port (Static, DHCP, PPPoE), MAC address, IP address of WAN port and		
Network	LAN port, DHCP server, status for LAN port (ENABLED or DISABLED).		
	Default Static IP: 192.168.1.128		
A	Shows the phone numbers and registration status for the 2 SIP LINES and 1 IAX2		
Accounts	server.		



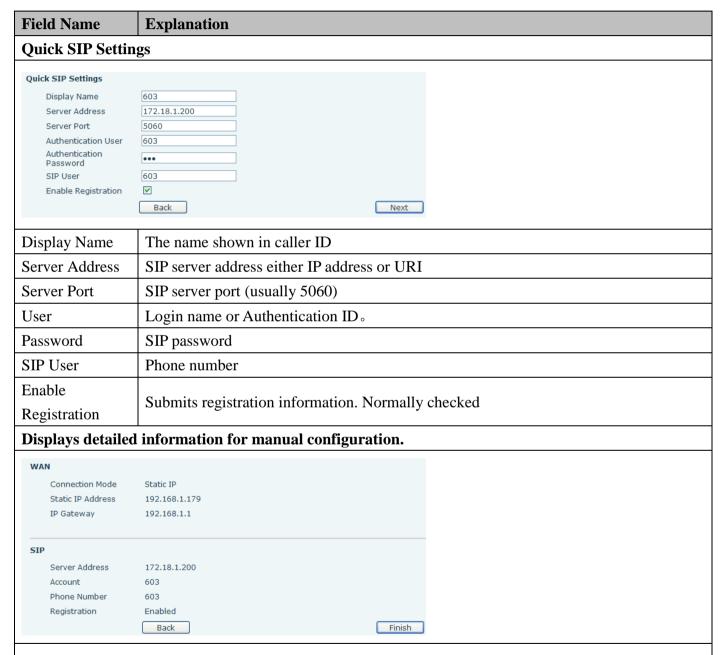
b) WIZARD



Wizard			
Field Name	Explanation		
Select the appropr	iate network mode. The equipment supports three network modes:		
Static IP mode	The parameters of a Static IP connection must be provided by your ISP.		
DHCP mode:	In this mode, network parameter information will be obtained automatically from a DHCP server.		
PPPoE mode:	In this mode, you must enter your ADSL account and password.		
Static IP mode is	selected; Click Next to go to Quick SIP Settings, Click Back to return to the		
Wizard screen.			
Static IP Settings IP Address Subnet Mask IP Gateway DNS Domain Primary DNS Secondary DNS	192.168.1.179 255.255.255.0 192.168.1.1 202.96.134.133 202.96.128.68 Back Next		
Static IP address	Please enter the Static IP address		

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Subnet Mask	Please enter the Subnet Mask
IP Gateway	Please enter the IP Gateway
DNC Domain	Set the DNS domain suffix. When the user enter the domain name DNS address cannot
DNS Domain	be resolved, the domain equipment to resolve in the domain name.
Primary DNS	Please enter the Primary DNS server address
Secondary DNS	Please enter the Secondary DNS server address



After selecting DHCP and clicking NEXT, the Quick SIP Settings screen will appear. Click Back to return to the Wizard screen. Click Next to go to the Summary screen.

If PPPoE is selected, this screen will appear. Enter the information provided by the ISP. Click Next to go to Quick SIP Setting. Click Back to return to the Wizard screen.

Click Finish button to save settings and reboot. After the reboot, SIP calls can be made.



c) CALL LOG

Outgoing call logs can be seen on this page



Call log	
Field Name	Explanation
Start time	Start time of the outgoing call
Duration	Duration of the outgoing call
Dialed calls	Account, protocol, and line of the outgoing call
Type	The call records of type

d) LANGUAGE

Set the current language.





e) TIME&DATE

ECDA				
	STATUS W	/IZARD CALL LOG	LANGUAGE	TIME&DATE
	System Current Time			
	2016/02/26 16:53:43			
ASIC	Simple Network Time Prot	acal (CNTD) Cattings		
rwork	Enable SNTP	⊘		
	Enable DHCP Time			
IP	Primary Server	0.pool.ntp.org		
	Secondary Server	time.nist.gov		
NTERCOM	Timezone	(GMT+08:00)Beijing,Chon	gqing,Hong Kong,U	rumqi 🔻
	Resync Period	60 second(s)		
AFEGUARDING	12-Hour Clock			
			Apply	
	Daylight Saving Time Setti	inas		
616	Enable			
ASIC	Offset	60 minutes(s)		
	Month	March ▼		October •
WORK	Week	5 🔻		5 ▼
	Day	Sunday ▼		Sunday ▼
(P	Hour			
		2		2
ERCOM	Minute	0		0
			Apply	
FEGUARDING	Manual Time Cotting			
	Manual Time Settings			
NTENANCE	Year			
	Month			
DUT	Day			
	Hour			
	Minute			
			Apply	

TIME&DATE			
Field Name Explanation			
System Current Time			
Display the curren	Display the current time		
SNTP Settings	SNTP Settings		
Enable SNTP	Enable or Disable SNTP		
DHCP Time	If this is enabled, equipment will synchronize time with DHCP server		
Primary Server	IP address of Primary SNTP Server		

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Secondary	ID address of Coopydamy CNTD Compan	
Server	IP address of Secondary SNTP Server	
Time zone	Local Time Zone	
Resync Period	Time between resync to SNTP server. Default is 60 seconds.	
12-Hour Clock	If checked, clock is 12 hour mode. If unchecked, 24 hour mode. Default is 24 hour	
	mode.	
Date Format	Specify the date format. Fourteen different formats are available.	

Field Name	Explanation	
Daylight Saving Time Settings		
Enable	Enable daylight saving time	
Offset(minutes)	DST offset. Default is 60 minutes	
Month	Start and end month for DST	
Week	Start and end week for DST	
Day	Start and end day for DST	
Hour	Start and end hour for DST	
Minute	Start and end minute for DST	
Manual Time Settings		
Enter the values for the current year, month, day, hour and minute. All values are required.		
Be sure to disable SNTP service before entering manual time and date.		

(2) NETWORK

a) WAN





WAN			
Field Name	Explanation		
WAN Status			
Active IP Ad	ldress	172.18.2.193	
Current Sub	onet Mask	255.255.0.0	
Current IP (Gateway	172.18.1.1	
MAC Addres	SS (Oc:38:3e:13:3b:90	
Active IP address	The current IP address	The current IP address of the equipment	
Current subnet mask	The current Subnet Ma	The current Subnet Mask	
Current IP gateway	The current Gateway IP address		
MAC address	The MAC address of the equipment		
MAC	Get the MAC address of time.		
Timestamp	det tile WiAe address e	or time.	
WAN Settings			
Obtain DNS Server Automatically Enabled 💌			
Static IP		DHCP ⊙	PPPoE ○
		A	apply
Select the approp	riate network mode. The	equipment supports th	nree network modes:
Static Network param		ust be entered manual	ly and will not change. All parameters are
Static	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 cho	osen, the screen below w	vill appear. Enter val	lues provided by the ISP.

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<u> :::DSPPA</u>	*	*

Explanation

Field Name

	•		
IP Address	192.168.1.179		
Subnet Mask	255.255.255.0		
IP Gateway	192.168.1.1		
DNS Domain			
Primary DNS	202.96.134.133		
Secondary DNS	202.96.128.68		
Static IP address	Please enter the Static IP address		
Subnet mask	Please enter the Subnet Mask		
Gateway	Please enter the IP Gateway		
DNS Domain	Set the DNS domain suffix. When the user enter the domain name DNS address cannot		
DNS Domain	be resolved, the domain equipment to resolve in the domain name.		
Primary DNS	Please enter the Primary DNS server address		
Secondary DNS	Please enter the Secondary DNS server address		

If PPPoE is chosen, the screen below will appear. Enter values provided by the ISP.

Service Name	admin		
User	user123		
Password	••••		
Service Name	PPPoE Service name, Usually the default value.		
User	ADSL user account		
Password	ADSL password		
After entering the	e new settings, click the APPLY button. The equipment will save the new settings and		
apply them. If a ne	new IP address was entered for the equipment, it must be used to login to the phone after		
clicking the APPL	LY button.		
802.1X Settings			
User	admin		
Password	••••		
Enable 802.1	1X \square		
User	802.1X user account		
Password	802.1X password		
Enable 812.1X	Open/Close 812.1X		
Service Port Settings			
Web Server type	Specify Web Server Type – HTTP or HTTPS		
	Port for web browser access. Default value is 80. To enhance security, change this from		
HTTP port	the default. Setting this port to 0 will disable 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.		
HTTPS port	Port for HTTPS access. Before using https, an https authentication certification must be		
III IFS poit	downloaded into the equipment.		

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	Default value is 443. To enhance security, change this from the default.	
Telnet port	Port for Telnet access. The default is 23.	
RTP port range	Set the beginning value for RTP Ports. Ports are dynamically allocated.	
start	Set the degining value for terr rough rough and all and an armine and an armine and armine ar	
RTP port	Set the maximum quantity of RTP Ports. The default is 200.	
quantity	Set the maximum quantity of K11 1 orts. The default is 200.	

Note:

- 1) Any changes made on this page require a reboot to become active.
- 2) It is suggested that changes to HTTP Port and Telnet ports be values greater than 1024. Values less than 1024 are reserved.
- 3) If the HTTP port is set to 0, HTTP service will be disabled.

b) LAN



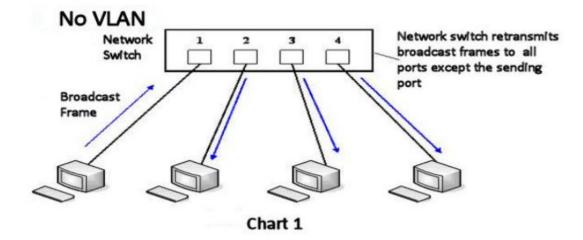
LAN	
Field Name	Explanation
IP address	LAN static IP
Subnet mask	LAN Subnet Mask
Enable bridge mode	If Bridge Mode is activated, the equipment will not provide an IP address for the LAN
	port. Instead, the LAN and WAN will be part of the same network. If this is activated,
	clicking Apply, will cause the equipment will reboot.
Note: If bridge mode is chosen, static LAN configuration will be disabled automatically.	

c) QoS&VLAN

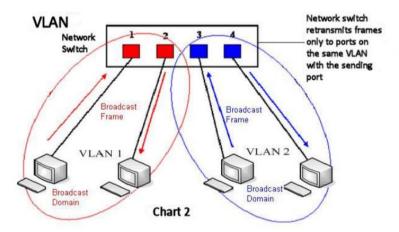
The equipment supports 802.1Q/P protocol and DiffServ configuration. Use of a Virtual LAN (VLAN) allows voice and data traffic to be separated.

> Chart 1 shows a network switch with no VLAN. Any broadcast frames will be transmitted to all other ports. For example, and frames broadcast from Port 1 will be sent to Ports 2, 3, and 4.



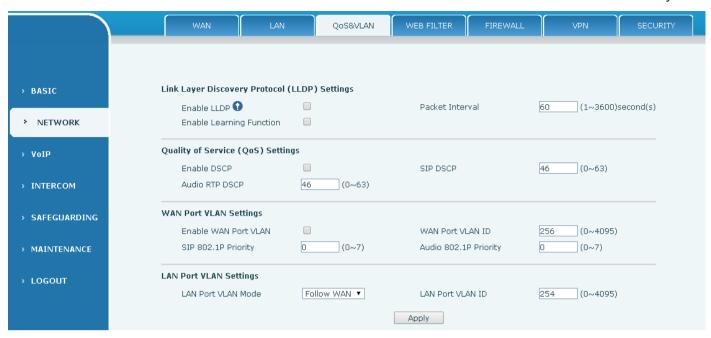


➤ Chart 2 shows an example with two VLANs indicated by red and blue. In this example, frames broadcast from Port 1 will only go to Port 2 since Ports 3 and 4 are in a different VLAN. VLANs can be used to divide a network by restricting the transmission of broadcast frames.



Note: In practice, VLANs are distinguished by the use of VLAN IDs.





QoS&VLAN			
Field Name	Explanation		
LLDP Settings			
Enable LLDP	Enable or Disable Link Layer Discovery Protocol (LLDP)		
Packet Interval	The time interval for sending LLDP Packets		
Enghla Lagurina	Enables the telephone to synchronize its VLAN data with the Network Switch.		
Enable Learning Function	The telephone will automatically synchronize DSCP, 802.1p, and VLAN ID		
Function	values even if these values differ from those provided by the LLDP server.		
QOS Settings			
Enable DSCP	Enable or Disable Differentiated Services Code Point (DSCP)		
SIP DSCP	Specify the value of the SIP DSCP in decimal		
Audio RTP DSCP	Specify the value of the Audio DSCP in decimal		
Field Name	Explanation		
WAN Port VLAN Sett	ings		
Enable WAN Port	Enable or Disable WAN Port VLAN		
VLAN	Eliable of Disable WAIN FOIL VLAIN		
WAN Port VLAN ID	Specify the value of the WAN Port VLAN ID. Range is 0-4095		
SIP 802.1P Priority	Specify the value of the signal 8021.p priority. Range is 0-7		
Audio 802.1P Priority	Specify the value of the voice 802.1p priority. Range is 0-7		
LAN Port VLAN Setti	ngs		
	Follow WAN: LAN Port ID is same as WAN ID.		
LAN Port VLAN	Disable: Disable Port VALN		
	Enable: Specify a VLAN ID for the LAN port which is different from WAN ID		
	1 2		



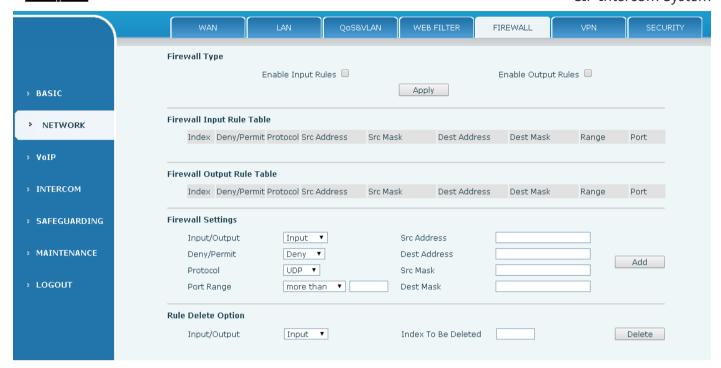
d) WEB FILTER



Web filter			
The Web filter is used to limit access to the equipment. When the web filter is enabled, only the IP			
addresses between the start IP and end IP can access the equipment.			
Field Name Explanation			
Web Filter Table			
Webpage access allows display the IP network list;			
Web Filter Table Settings			
Beginning and Ending IP Address for MMI Filter, Click add this filter range to the Web Filter Table			
Web Filter Setting			
Select to enable MMI Filter. Click [apply] Make filter settings effective.			

e) FIREWALL

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Firewall

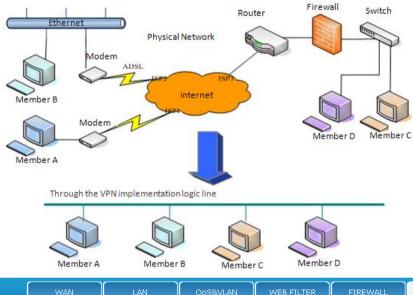
Firewall rules can be used to prevent unauthorized Internet users from accessing private networks connected to this phone (input rule), or prevent unauthorized devices connected to this phone from accessing the Internet (output rule). Each rule type supports a maximum of 10 items.

Field Name	Explanation				
Firewall Rules S	Firewall Rules Settings				
Enable Input	Enable rules limiting access from the Internet				
Rules	Enable rules limiting access from the Internet.				
Enable Output	Enable rules limiting access to the Internet				
Rules	Enable rules limiting access to the Internet.				
Firewall Setting	şs				
Input / Output	Specify if the current rule is input or output.				
Deny/Permit	Specify if the current rule is Deny or Permit.				
Protocol type	Filter protocol type (TCP/ UDP/ ICMP/ IP)				
Port Range	Set the filter Port range				
Source Address	Set source address. It can be a single IP address or use * as a wild card. For example:				
Source Address	192.168.1.14 or *.*.*.14.				
Destination	Set destination address. It can be a single IP address or use * as a wild card. For				
Address	example: 192.168.1.14 or *.*.*.14.				
Source Mask	Set the source address mask. For example: 255.255.255 points to one host while				
Source Wask	255.255.255.0 points to a C type network.				
Destination	Set the destination address mask. For example: 255.255.255 points to one host				
Mask while 255.255.255.0 points to a C type network.					

f) VPN

<u>:::DSPPA</u>

The device supports remote connection via VPN. It supports both Layer 2 Tunneling Protocol (L2TP) and OpenVPN protocol. This allows users at remote locations on the public network to make secure connections to local networks.





Field Name	Explanation				
IP Address	Shows the current VPN IP address.				
VPN Mode	•				
Enable VPN	Enable/Disable VPN.				
L2TP	Select Layer 2 Tunneling Protocol				
OpenVPN	Select OpenVPN Protocol. (Only one protocol may be activated. After the selection is				
	made, the configuration should be saved and the phone rebooted.)				
L2TP					
VPN Server	Set VPN L2TP Server IP address.				
address					
VPN user	Set User Name access to VPN L2TP Server.				
VPN password	Set Password access to VPN L2TP Server.				



g) **SECURITY**

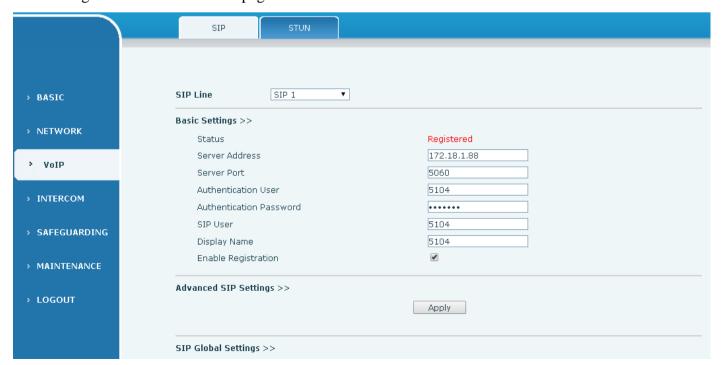


Field Name	Explanation		
Update Security	Calcat the according file to be used at all Clints the Hardest house to see date		
File	Select the security file to be updated. Click the Update button to update.		
Delete Security File	Select the security file to be deleted. Click the Delete button to Delete.		
SIP TLS Files Show SIP TLS authentication certificate.			
HTTPS Files Show HTTPS authentication certificate.			
OpenVPN Files Show OpenVPN File authentication certificate file.			

(3) VOIP

a) SIP

Configure a SIP server on this page.





Proxy Server Address		Proxy Server Port	
Proxy User		Proxy Password	
·		·	E060
Backup Server Address		Backup 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	
Enable DNS SRV		Use VPN	✓
Transport Protocol	UDP ▼		
		Apply	
(P Global Settings >>			
Strict Branch		Enable Group	
Registration Failure Retry Time	32 seco	nd(s) DND Return Code 480	(Temporarily Not Available)
Reject Return Code	603(Decline)	▼ Busy Return Code 486	(Busy Here)

SIP	SIP				
Field Name	Explanation				
Basic Settings (C	hoose the SIP line to configured)				
	Shows registration status. If the registration is successful will display has been				
Status	registered, not successful display not registered, the wrong password is displayed 403				
	errors, account number failure display timeout.				
Server address	SIP server IP address or URI.				
Server port	SIP server port. Default is 5060.				
Authentication	CID account name (Lacin ID)				
User	SIP account name (Login ID).				
Authentication	CID as distustion assessed				
password	SIP registration password.				
SIP user	Phone number assigned by VoIP service provider. Equipment will not register if there				
	is no phone number configured.				
Display name	olay name Set the display name. This name is shown on Caller ID.				

<u> :::DSPPA</u>

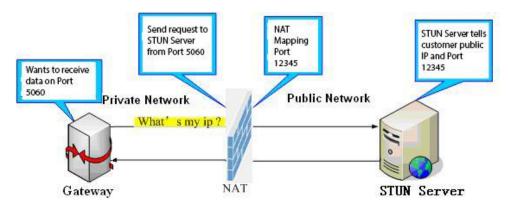
Field Name	Explanation			
Advanced SIP Settings				
Proxy server	SIP proxy server IP address or URI, (This is normally the same as the SIP Registrar			
address	Server)			
Proxy server port	SIP Proxy server port. Normally 5060.			
Proxy user	SIP Proxy server account.			
Proxy password	SIP Proxy server password.			
Backup Proxy	Backup SIP Server Address or URI (This server will be used if the primary server is			
server address	unavailable)			
Backup Proxy server port	Backup SIP Server Port			
Domain Realm	SIP Domain if different than the SIP Register Server.			
Server name	Name of SIP Backup server			
RTP Encryption	Enable/Disable RTP Encryption.			
Enable Session Timer	If enabled, this will refresh the SIP session timer per RFC4028.			
Registration	SIP re-registration time. Default is 60 seconds. If the server requests a different time,			
Expires	the phone will change to that value.			
Session Timeout	Refresh interval if Session Timer is enabled.			
Keep Alive Type	Specifies the NAT keep alive type. If SIP Option is selected, the equipment will send SIP Option sip messages to the server every NAT Keep Alive Period. The server will then respond with 200 OK. If UDP is selected, the equipment will send a UDP message to the server every NAT Keep Alive Period.			
Keep Alive	Set the NAT Keep Alive interval. Default is 60 seconds			
Interval	Set the 1771 Reep 7 thve litter val. Betautt is 60 seconds			
User Agent	Set SIP User Agent value.			
Server Type	Configures phone for unique requirements of selected server.			
	DTMF sending mode. There are four modes:			
	• In-band			
DTMF Type	• RFC2833			
Divin Type	SIP_INFO			
	• AUTO			
	Different VoIP Service providers may require different modes.			
RFC Protocol	Select SIP protocol version RFC3261 or RFC2543. Default is RFC3261. Used for			
Edition	servers which only support RFC2543.			
DTMF SIP INFO Mode	You can chose Send 10/11 or Send */#			
Local Port	SIP port. Default is 5060.			
Enable Rport	Enable/Disable support for NAT traversal via RFC3581 (Rport).			

* * * SIP Intercom System

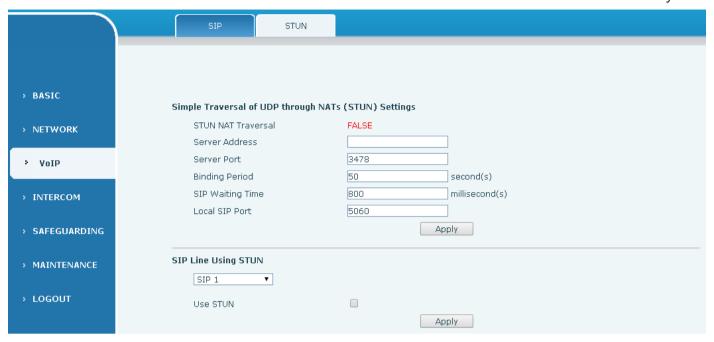
Field Name	Explanation			
Keep Authentication	Enable /disable registration with authentication. It will use the last authentication field which passed authentication by server. This will decrease the load on the serve if enabled			
Enable PRACK	Enable or disable SIP PRACK function. Default is OFF. It is suggested this be used.			
Ans. With a Single Codec	If enabled phone will respond to incoming calls with only one codec.			
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.			
Auto TCP Force the use of TCP protocol to guarantee usability of transport for SIP above 1500 bytes				
Enable DNS SRV	Enables use of DNS SRV records			
Use VPN	Enable SIP use VPN for every line individually, not all of them			
Transport Protocol	Configuration using the transport protocol, TCP, TLS or UDP, the default is UDP.			
SIP Global Setting	s			
Strict Branch	Enable Strict Branch - The value of the branch must be after"z9hG4bK" in the VIA field of the INVITE message received, or the phone will not respond to the INVITE. Note: This will affect all lines			
Enable Group	Enable SIP Group Backup. This will affect all lines			
Registration	Registration failures retry time – If registrations fails, the phone will attempt to			
Failure Retry Time	register again after registration failure retry time. This will affect all lines			
DND Return Code	Specify SIP Code returned for DND. Default is 480 - Temporarily Not Available.			
Reject Return Code	Specify SIP Code returned for Rejected call. Default is 603 – Decline.			
Busy Return Code	Specify SIP Code returned for Busy. Default is 486 – Busy Here.			

b) STUN

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.







STUN			
Field Name	Explanation		
STUN NAT	Shows whether or not STUN NAT Traversal was successful.		
Traversal	Shows whether of hot STON NAT Traversar was successful.		
Server Address	STUN Server IP address		
Server Port	STUN Server Port – Default is 3478.		
Dinding Davied	STUN blinding period – STUN packets are sent at this interval to keep the NAT		
Binding Period	mapping active.		
SIP Waiting Time	Waiting time for SIP. This will vary depending on the network.		
Local SIP Port	Port configure the local SIP signaling		
SIP Line Using STUN (SIP1 or SIP2)			
Use STUN	Enable/Disable STUN on the selected line.		

Note: the SIP STUN is used to achieve the SIP penetration of NAT, is 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.



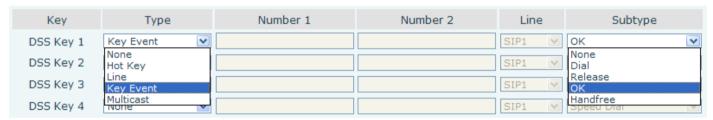
(4) Intercom

a) FUNCTION KEY



> Key Event Settings

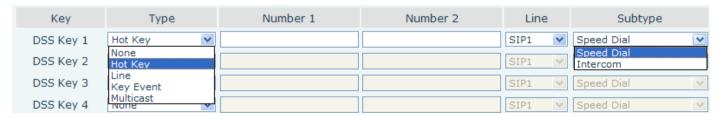
Set the key type to the Key Event.



DSS key type	Subtype	Usage	
	None	Not responding	
	Dial	Dial function	
Key Event	Release	End calls	
	OK	Identify key	
	Handfree	The hand-free key(with hook dial, hang up)	

> Hot key Settings

Enter the phone number in the input box, when you press the shortcut key, equipment will dial set telephone number. This button can also be used to set the IP address, press the shortcut key IP direct dial call.



DSS	Number	Line	Subtype	Usage
			~ ~	

<u> :::DSPPF</u>	*	*		SIP Intercom System
key				
type				
Hot Key	Fill the called party's SIP account or	The SIP account corresponding	Speed Dial	In Speed dial mode, with Enable Speed Dial Enable can define whether this call is allowed to be hang up by re-press the speed dial
	address	Intercom	In Intercom mode, if the caller's IP phone support intercom feature, can realize auto answer	

> Multicast Settings

Multicast function is launched will voice messages sent to set the multicast address, all equipment to monitor the group multicast address can receive sponsors speech information, etc. Using multicast functionality can be simple and convenient to send notice to each member in the multicast.

Through the DSS Key configuration multicast calling WEB is as follows:

Key	Type	Number 1	Number 2	Line	Subtype
DSS Key 1	Multicast			SIP1 V	G.711A 💌
DSS Key 2	None Hot Key			SIP1 V	G.711A G.711U
DSS Key 3	Line Key Event			SIP1 V	G.722 G.723.1
DSS Key 4	Multicast None			SIP1 V	G.726-32 G.729AB

DSS key type	Number	Subtype	Usage	
Multicast	Set the host IP address and port number, the middle	G.711A	Nomenthand areach adding (AVb)	
		G.711U	Narrowband speech coding (4Khz)	
		G.722	Wideband speech coding (7Khz)	
	separated by a colon	G.723.1		
		G.726-32	Narrowband speech coding (4Khz)	
		G.729AB		

♦ operation mechanism

Device through the DSS Key configuration of multicast address and port and started coding; set by WEB to monitor the multicast address and port; device sends a multicast, listens to the address of the device can receive the multicast content.

♦ calling configuration

The call is already exists, and three party or initiated multicast communication, so it will not be able to launch a new multicast call.



b) AUDIO

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

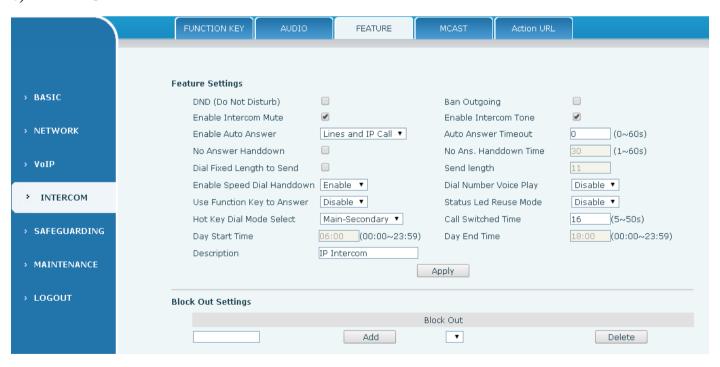


Field Name	Explanation	
Audio Settings		
First Codec	The first codec choice: G.711A/U, G.722, G.723.1, G.726-32, G.729AB	
Second Codec	The second codec choice: G.711A/U, G.722, G.723.1, G.726-32, G.729AB, None	
Third Codec	The third codec choice: G.711A/U, G.722, G.723.1, G.726-32, G.729AB, None	
Fourth Codec	The forth codec choice: G.711A/U, G.722, G.723.1, G.726-32, G.729AB, None	
DTMF Payload	The DTD Dead of Leave that in Figure DTME Defeate in 101	
Type	The RTP Payload type that indicates DTMF. Default is 101	
Default Ring	Ding Cound There are 0 standard types and 2 User types	
Type	Ring Sound – There are 9 standard types and 3 User types.	
G.729AB Payload	C 720 A D. Daviland I anoth Adjusts from 10 60 mSaa	
Length	G.729AB Payload Length – Adjusts from 10 – 60 mSec.	
Tone Standard	Configure tone standard area.	
G.722	Choices are 160/20ms or 320/20ms.	
Timestamps	Choices are 160/20ins or 520/20ins.	
G.723.1 Bit Rate	Choices are 5.3kb/s or 6.3kb/s.	
Enable VAD	Enable or disable Voice Activity Detection (VAD). If VAD is enabled, G729 Payload	
Eliable VAD	length cannot be set greater than 20 mSec.	



Field Name	Explanation		
Talk Volume Settings			
SPK Output	Set the speaker calls the volume level.		
Volume			
MIC Input	Set the MIC calls the volume level.		
Volume			
Media Volume Settings			
Broadcast Output	Set the broadcast the output volume level.		
Volume			
Signal Tone	Set the audio signal the output volume level.		
Volume			
Codec Gain Settings			
Hands-free Hardware MIC		Settings Hands-free Hardware MIC Gain	
Gain			
Hands-free Hardware		Settings hands-free Hardware Speakerphone Gain	
Speakerphone Gain			

c) FEATURE



Field Name	Explanation
Feature Settings	
DND (Do Not	DND might be disabled phone for all SIP lines, or line for SIP individually.But the
Disturb)	outgoing calls will not be affected
Ban Outgoing	If enabled, no outgoing calls can be made.

SIP Intercom System

	* 31F Intercom System
Enable Intercom Mute	If enabled, mutes incoming calls during an intercom call.
Field Name	Explanation
Enable Intercom Tone	If enabled, plays intercom ring tone to alert to an intercom call.
Enable Auto Answer	Enable Auto Answer function
Auto Answer Timeout	Set Auto Answer Timeout
No Answer Handdown	Enable automatically hang up when no answer
No Answer Handdown Time	Configuration in a set time, automatically hang up when no answer
Dial Fixed Length to Send	Enable or disable dial fixed length to send.
Send length	The number will be sent to the server after the specified numbers of digits are dialed.
Enable Speed Dial Handdown	Enable Speed Dial Hand Up function
Dial Number Voice Play	Configuration Open / Close Dial Number Voice Play
Use Function Key to Answer	Configure whether to enable the function keys, is disabled by default.
Status Led Reuse	Enable the function, the registered status indicator will reuse the call instructions
Mode	function, which means the LED will flashes in the call state.
Hot Key Dialed	<primary secondary="">mode allow system to call primary extension first, if there were no answer, it would cancel the call and then call secondary extension automatically.</primary>
Mode Selection	<day night="">mode allow system to check the calling time is belong to Day or Night time, and then decide to call the number 1 or number 2 automatically. Users just press speed dial key once.</day>
Call Switched Time	The period between hot key dialing to the first and second number.
Day Start Time	The start time of the Day When you select <day night="">mode</day>
Day End Time	The end time of the day When you select <day night="">mode</day>
Description	Device description displayed on IP scanning tool software.

Block Out Settings

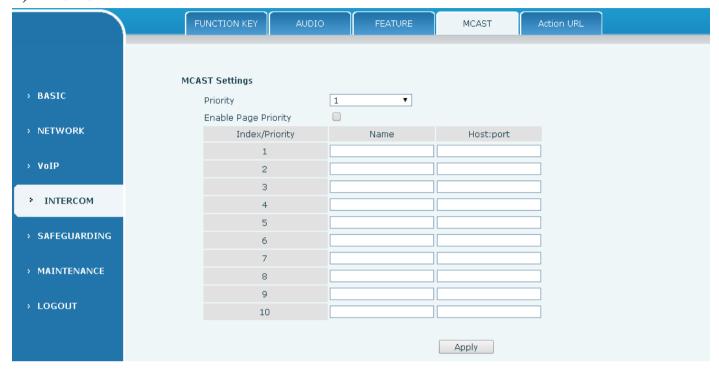
Add or Delete Blocked numbers – Enter the prefix of numbers which should not be dialled by the phone.

For example, if 001 is entered, the phone will not dial any numbers beginning with 001.

X and x are wildcards which match single digits. For example, if 4xxx or 4XXX is entered, the phone will not dial any 4 digit numbers beginning with 4. It will dial numbers beginning with 4 which are longer or shorter than 4 digits.



d) MCAST



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:

MCAST Settings				
	Priority	1	V	
	Enable Page Priority	▽		
	Index/Priority	Name		Host:port
	1	ss	239	9.1.1.1:1366
	2	ee	239	9.1.1.1:1367

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



• 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:

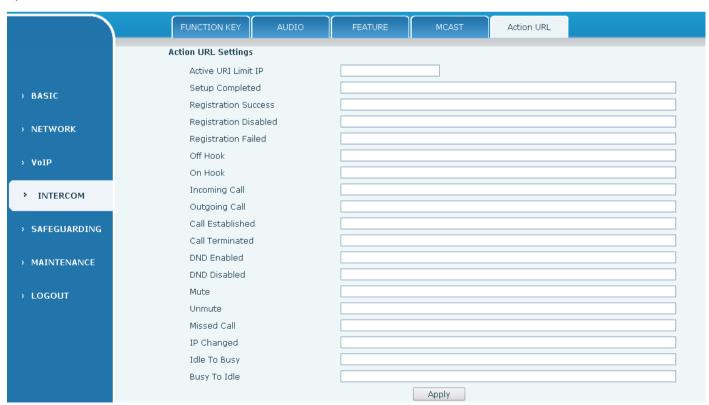
- ♦ The purpose of setting monitoring multicast "group 1" or "3" set up listening "group of 1" or "3" multicast address multicast call.
- ♦ All equipment has been a path or multi-path multicast phone, such as listening to "multicast information group 2".
- ♦ If multicast is a new "group of 1", because "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.

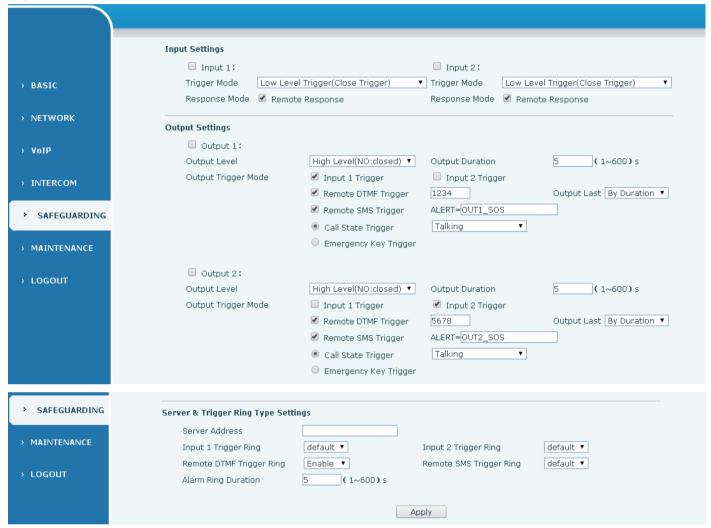
e) Action URL



Action URL Settings

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

(5) SAFEGUARDING



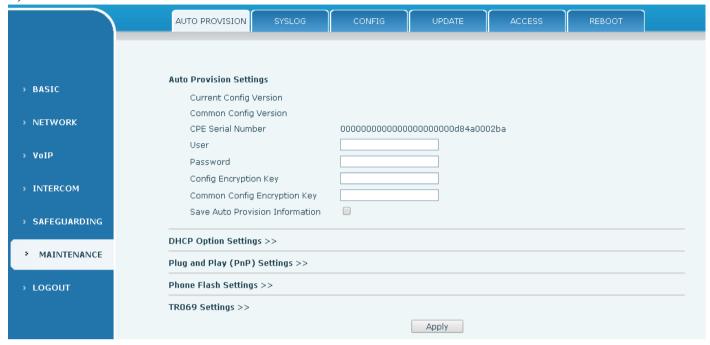
Security Settings	Security Settings		
Field Name	Explanation		
Input settings			
Input 1	Open /Close Input port1		
	When choosing the low level trigger (closed trigger), detect the input port 1 (low level)		
Trigger Mede	closed trigger.		
Trigger Mode	When choosing the high level trigger (disconnected trigger), detect the input port 1		
	(high level) disconnected trigger.		
Response Mode	Open /Close Input port1 the Remote Response		
Input 2	Open /Close Input port2		
	When choosing the low level trigger (closed trigger), detect the input port 2 (low level)		
Triagan Mada	closed trigger.		
Trigger Mode	When choosing the high level trigger (disconnected trigger), detect the input port 2		
	(high level) disconnected trigger.		

<u> </u>	*	* SIP Intercom System	
Response Mode	Open /Close Input port2 the Remote Response		
Field Name	Explanation		
Output Settings			
Output 1/2	Open/close, Output 1/Output 2		
	When choosis	ng the low level trigger (NO: normally open), when meet the trigger	
Ontrovt Laval	condition, trigger the NO port disconnected.		
Output Level	When choosis	ng the high level trigger (NO: normally close), when meet the trigger	
	condition, trig	gger the NO port close.	
Output Duration	Changes in po	ort, the duration of. The default is 5 seconds.	
Output Trigger M	ode: There are	many kinds of trigger modes, multiple choices.	
Input port1	put port1 When the input port1 meet to trigger condition, the output port1 will trigger(The Port		
trigger	level time change, By < Output Duration > control)		
Input port2	When the inp	ut port2 meet to trigger condition, the output port2 will trigger(The Port	
trigger	level time cha	ange, By < Output Duration > control)	
		Received the terminal equipment to send the DTMF password, if	
	By duration	correct, which triggers the corresponding output port (The Port level	
Damete DTME		time change, By < Output Duration > control)	
Remote DTMF		During the call, receive the terminal equipment to send the DTMF	
trigger	By Calling	password, if correct, which triggers the corresponding output port (The	
	State	Port level time change, (By call state control, after the end of the call,	
		port to return the default state)	
Remote SMS	In the remote device or server to send instructions to ALERT=[instructions], if correct		
trigger	which triggers the corresponding output port		
	The port output continuous time synchronization and trigger state changes, including		
Call state	the trigger co	nditions: 1, call; 2, call and singing; 3, singing; three models. (for	
trigger	example: the call trigger output port, will be in conversation state continued to output		
	the correspon	corresponding level)	
Emergency key	When the em	ergency call button to trigger the equipment shell, which triggers the	
trigger	corresponding output port(after the end of the call, port to return the default state)		
Server & Trigge	r Ring Type S	ettings	
Server Address	Confi	gure remote response server address(including remote response server	
Server Address	add	address and tamper alarm server address)	
Input 1 trigger rin	When	When the input port 1 triggering condition is satisfied, the corresponding ring	
input i trigger im	tone o	tone or alarm	
Input 2 trigger rin	When	When the input port 2 triggering condition is satisfied, the corresponding ring	
input 2 trigger in	tone o	tone or alarm	
Remote DTMF tr	igger When	received the remote DTMF command, whether to output the ringtone	
ring	WIICH	When received the remote DTMF command, whether to output the ringtone	
Remote SMS trig	ger When	When receiving the remote SMS instructions, whether to output the ringtone	
ring	When		
Alarm Ring Dura	tion durati	on of alarm ring(not including tamper alarm)	



(6) MAINTENANCE

a) AUTO PROVISION



The equipment supports PnP, DHCP, and Phone Flash to obtain configuration parameters. They will be queried in the following order when the equipment boots.

DHCP option \rightarrow PnP server \rightarrow Phone Flash

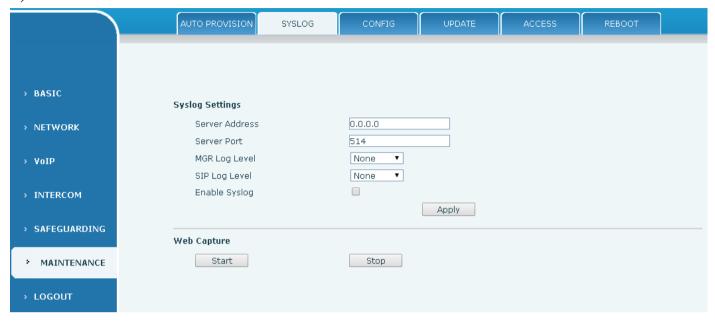
Field Name	Explanation	
Auto Provision Settings		
Show the current config file's version. If the version of configuration do		
Current Config	higher than this, the configuration will be upgraded. If the endpoints confirm the	
Version	configuration by the Digest method, the configuration will not be upgraded unless it	
	differs from the current configuration	
	Show the common config file's version. If the configuration downloaded and this	
Common Config	configuration is the same, the auto provision will stop. If the endpoints confirm the	
Version	configuration by the Digest method, the configuration will not be upgraded unless it	
	differs from the current configuration.	
CPE Serial Social number of the equipment		
Number	Serial number of the equipment	
II	Username for configuration server. Used for FTP/HTTP/HTTPS. If this is blank the	
User	phone will use anonymous	
Password	Password for configuration server. Used for FTP/HTTP/HTTPS.	
Config		
Encryption Key Encryption key for the configuration file		

Field Name Explanation

<u>:::DSPPA</u>	* * SIP Intercom System	
Common Config Encryption Key	Encryption key for common configuration file	
Save Auto Provision Information	Save the auto provision username and password in the phone until the server url changes	
DHCP Option Settings		
DHCP Option Setting	The equipment supports configuration from Option 43, Option 66, or a Custom DHCP option. It may also be disabled.	
Custom DHCP Option	Custom option number. Must be from 128 to 254.	
Plug and Play(Pr	nP)Settings	
Enable PnP	If this is enabled, the equipment will send SIP SUBSCRIBE messages to a multicast address when it boots up. Any SIP server understanding that message will reply with a SIP NOTIFY message containing the Auto Provisioning Server URL where the phones can request their configuration.	
PnP server PnP Server Address		
PnP port	PnP Server Port	
PnP Transport	PnP Transfer protocol – UDP or TCP	
PnP Interval Interval time for querying PnP server. Default is 1 hour.		
Phone Flash Sett	ings	
Server Address	Set FTP/TFTP/HTTP server IP address for auto update. The address can be an IP address or Domain name with subdirectory.	
Config File	Specify configuration file name. The equipment will use its MAC ID as the config file	
Name 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.	
Update Mode	 Disable – no update Update after reboot – update only after reboot. Update at time interval – update at periodic update interval 	
TR069 Settings		
Enable TR069	Enable/Disable TR069 configuration	
Enable TR069 Warning Tone	Enable or disable TR069 Warning Tone	
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	Enable/Disable TR069 Auto Login.	



b) SYSLOG



Syslog is a protocol used to record log messages using a client/server mechanism. 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 not work correctly.

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

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

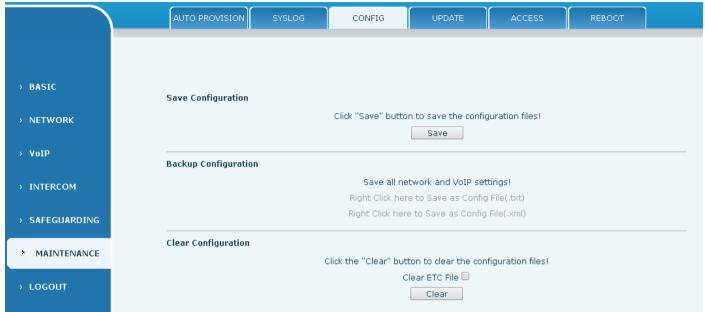
Level 6: Informational; It is the normal daily messages.

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

Field Name	Explanation	
Syslog settings		
Server Address	System log server IP address.	
Server port	System log server port.	
MGR log level	Set the level of MGR log.	
SIP log level	Set the level of SIP log.	
Enable syslog	Enable or disable system log.	
Web Capture		
Chart	Capture a packet stream from the equipment. This is normally used to troubleshoot	
Start	problems.	
Stop	Stop capturing the packet stream	



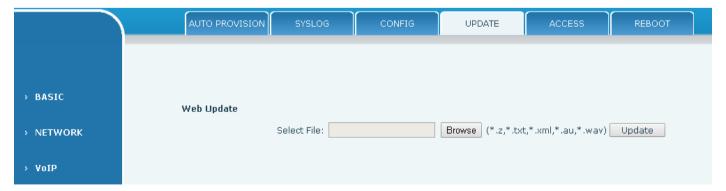
c) CONFIG



Field Name	Explanation	
Save	Save the current equipment configuration. Clicking this saves all configuration	
Configuration	changes and makes them effective immediately.	
Backup	Save the equipment configuration to a txt or xml file. Please note to Right click on the	
Configuration choice and then choose "Save Link As."		
	Logged in as Admin, this will restore factory default and remove all configuration	
Clear	information.	
Configuration	Logged in as Guest, this will reset all configuration information except for VoIP	
	accounts (SIP1-6 and IAX2) and version number.	

d) UPDATE

This page allows uploading configuration files to the equipment.

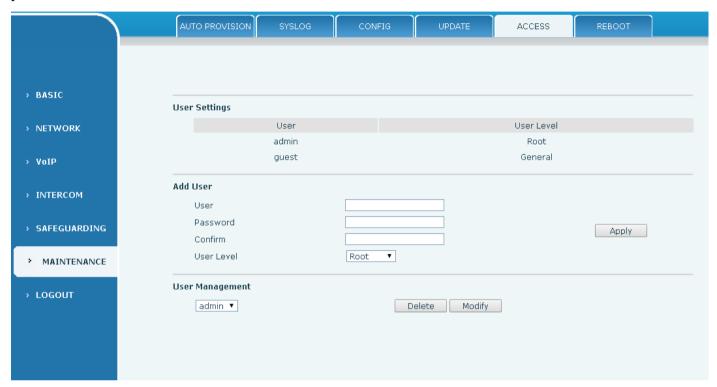


Field Name	Explanation

	Browse to the config file, and press Update to load it to the equipment. Various types
Web Update	of files can be loaded here including firmware, ring tones, local phonebook and config
	files in either text or xml format.

e) ACCESS

Through this page, user can add or remove users depends on their needs and can modify existing user permission.



Field Name	Explanation	
User Settings		
User	shows the current user name	
User level	Show the user level; admin user can modify the configuration. General user can only	
	read the configuration.	
Add User		
User	Set User Account name	
Password	Set the password	
Confirm	Confirm the password	
User level	There are two levels. Root user can modify the configuration. General user can only	
User level	read the configuration.	
User Management		
Select the account and click Modify to modify the selected account. Click Delete to delete the selected		

f) REBOOT

account. A General user can only add another General user.

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) LOGOUT



Click <Logout> from the web to exit. Users need to enter their user name and password again when visit next time.



E. Appendix

1. Technical parameters

Communica	ation protocol	SIP 2.0(RFC-3261)
Main chipset		Broadcom
Speech flow	Protocols	RTP/SRTP
	Decoding	G.729、G.723、G.711、G.722、G.726
	Audio amplifier	2.5W
	Volume control	Adjustable
	Full duplex speakerphone	Support (AEC)
	DSS key	One or Two (PH2.0 port)
	Indicating lamp	Three (PH2.0 port)
	MIC	One (XH2.54 port)
	Speaker	One (XH2.54 port)
Dont	An external active speaker	One (3.5mm port)
Port	recording output	One (3.5mm port)
	Short circuit input	Two (3.5mm port)
	Short circuit output	Two (3.5mm port)
	WAN port	10/100BASE-TX s Auto-MDIX, RJ-45
	LAN port	10/100BASE-TX s Auto-MDIX, RJ-45
power supp	ly mode	9V~16V/1A DC or POE
Cables		CAT5 or better
working ten	nperature	-40 ℃ to 70 ℃
working hu	midity	10% - 95%
storage tem	perature	-40 ℃ to 70 ℃
overall dime	ension	195x120x39mm
Package dir	nensions	260x165x62mm
Package we	ight	0.85KG



2. Basic functions

- 2 SIP line
- Full-duplex speakerphone
- Intelligent DSS Keys(Speed dial)
- Wall-mount installation
- 2 embedded short circuit input interfaces
- 2 embedded short circuit output interfaces. Support 4 controlled events: remote DTMF; remote server's commands; interaction with short circuit input; talking status
- Output interface for active speaker
- Audio record output interface
- External Power Supply
- Multicast
- All in ONE: Radio and intercom, intelligent security function
- Industrial standard certifications: IP65, IK10, CE/FCC

3. Schematic diagram



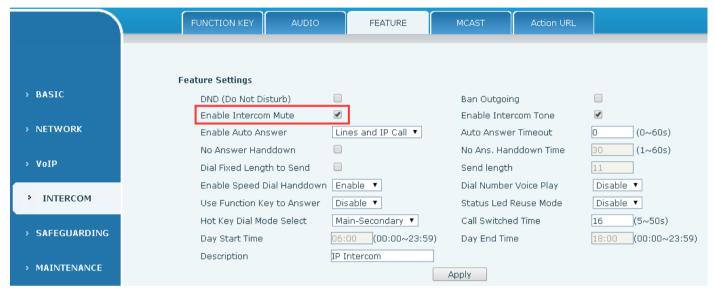




4. The radio terminal configuration notice

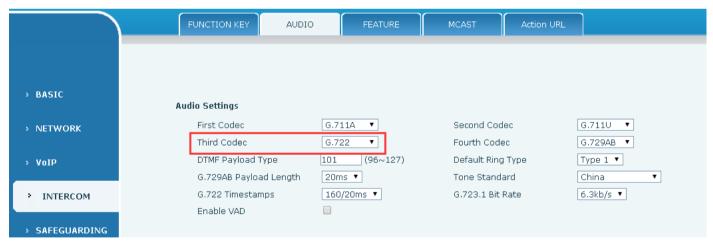
♦ How to avoid an incoherency sound when the broadcast playing?

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.



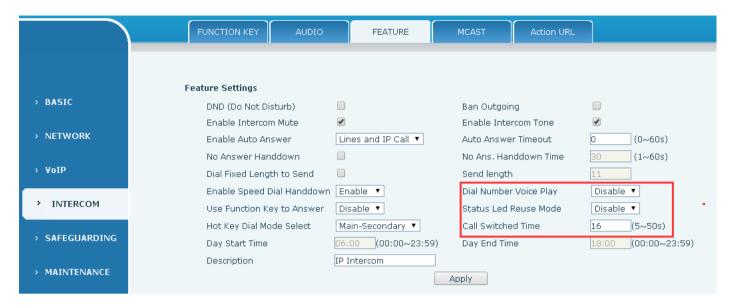
♦ How to improve broadcasting tone quality?

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





5. The other function settings



1) Status Led reuse mode

Enable the function, the registered status indicator will reuse the call instructions function, which means the LED will flashes in the call state.

2) Dialing tone prompt

Enable the function; operating digital keyboard will have corresponding key tone of voice.

3) Call switching time

This function is used to define the speed dial key to call, call switching from number 1 to number 2 time interval.

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