

# i20S IP Voice Access User Manual V3.0







Document VER	Firmware VER	Explanation	Time	
V1.0	2.0.0.2485	Initial issue	20160830	
	2 1 1 2202	Add FDMS, video linkage function.	20170726	
V2.0 2.1.1.2898		Changed default in passive mode to the electric-lock.	20170726	
	Change company address and add IP scan tool downlo		20171027	
V3.0 2.1.1.2898		address in QIG	20171027	



# **Safety Notices**

- Please use the specified power adapter. If you need to use the power adapter provided by other manufacturers under special circumstances, please make sure that the voltage and current provided is 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 either by forcefully twist it, stretch pull, banding or put it under heavy pressure or between items, otherwise it may cause damage to the power cord, lead to fire or get an electric shock.
- 3. Before using, please confirm that the temperature and environment is humidity suitable for the product to 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. Please do not let non-technical staff to remove or repair. Improper repair may cause electric shock, fire, malfunction, etc. It will lead to injury accident or cause damage to your product.
- 5. Do not use fingers, pins, wire, other metal objects or foreign body into the vents and gaps. It may cause current through the metal or foreign body, which may even cause electric shock or injury accident. If any foreign body or objection falls into the product please stop using.
- 6. Please do not discard the packing bags or store 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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## I. Product introduction

i2OS voice access is a full digital network door phone, with its core part adopts mature VoIP solution (Broadcom chip), stable and reliable performance, hands-free adopting digital full-duplex mode, voice loud and clear, generous appearance, solid durable, easy for installation, comfortable keypad and low power consumption.

i20S voice access supports entrance guard control, voice intercom, ID card and keypad remote to open the door.

# 1. Appearance of the product



### 2. Description

Buttons and icons	Description	Function		
128 456 789 606	Numeric keyboard	Input password to open the door or to call.		
	programmable keys	Can be set to a variety of functions, in order to meet the needs of different occasions		
CARD D GR	induction zone	RFID induction area		
	Lock Status	Door unlocking: On		
		Door locking: Off		
		Standby: Off		
SE 🔵	Call/Ring status	Calls: On		
		Ringing: Blink with 1s		
		Network error: Blink with 1s		
	Network/SIP	Network running: Off		
	Registration	Registration failed: Blink with 3s		
		Registration succeeded: On		



# **II. Start Using**

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

### 1. Confirm the connection

Confirm whether the equipment of the power cord, network cable, electric lock control line connection and the boot-up is normal. (Check the network state of light)

#### 1) Power, Electric Lock, Indoor switch port

			CN7				
1	2	3	4	5	6	7	
+12V	VSS	NC	СОМ	NO	S_IN	S_OUT	
12V 1	A/DC	Elec	tric-lock sw	vitch	Indoor switch		

Voice access the power supply ways: 12v/DC or POE.

### 2) Driving mode of electric-lock(Default in passive mode)



Pa	1
assive	/2/
e Mo	/3/
ode	4

Active	1/2/
Mode	3/  4/

Jumper in passive mode

Jumper in active mode

**[Note]** When the device is in active mode, it can drive 12V/700mA switch output maximum, to which a standard electric-lock or another compatible electrical appliance can be connected.

- When using the active mode, it is 12V DC in output.
- When using the passive mode, output is short control (normally open mode or normally close mode).



# 3) Wiring instructions

- NO: Normally Open Contact.
- COM: Common Contact.
- NC: Normally Close Contact.

Drivin	g Mode	Elect	ric lock		
Active	Passive	No electricity when open	When the power to open	Jumper port	Connections
v				Active Mode	12V OO OOOO + NC COM NO S-I S-O + NC COM NO S-I S-O Power Supply 12V/1A Electric-lock: No electricity when open the door
v			v	Active Mode	12V SS O O O OO + - NC COM NO S-I S-O 
	V	V		Passive Mode	Door Phone Power Input Power Supply 12V/2A + - NC COM NO S-I S-O Indoor switch Electric-lock: No electricity when open the door
	V		v	Passive Mode	Power Supply Power Supply 12V/2A + - NC COM NO S-I S-O Indoor switch Electric-lock: When the power to open the door
	v	v		Passive Mode	External Power Supply CCOMMO PUBLICANA +27 CCOMMO PUBLICANA +27 CCOMMO PUBLICANA +27 CCOM NO S-I S-O COM FOR SUPPLY CCOM NO S-I S-O COM FOR SUPPLY CCOM NO S-I S-O COM FOR SUPPLY CCOM



## 2. Quick Setting

The product provides a complete function and parameter setting. Users may need to have the network and SIP protocol knowledge to understand the meaning represented by all parameters. In order to let equipment users enjoy the high quality of voice service and low cost advantage brought by the device immediately, here we list some basic but compulsory setting options in this section to let users know how to operate without understanding such complex SIP protocols.

In prior to this step, please make sure your broadband Internet online can be normal operated, and complete the connection of the network hardware. The product factory default network mode is DHCP. Thus, only connect equipment with DHCP network environment that network can be automatically connected.

- Press and hold "#" key for 3 seconds and the door phone will report the IP address by voice, or use the "iDoorPhoneNetworkScanner.exe" software to find the IP address of the device. (Download address http://download.fanvil.com/tool/iDoorPhoneNetworkScanner.exe )
- > Note: when power on, 30s waiting is needed for device running.
- Log on to the WEB device configuration.
- In a Line page configuration service account, user name, parameters that are required for server address register.
- > You can set DSS key in the Function key page.
- > You can set Door Phone parameters in the Webpage (EGS Setting-> Features).



# **III.** Basic operation

#### 1. Answer a call

When a call comes in, the device will answer automatically. If you cancel auto answer feature and set auto answer time, you will hear the bell ring at the set time and the device will auto answer after a timeout.

#### 2. Call

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

### 3. End call

Enable Release key hang up to end call.

### 4. Open the door operation

Through the following seven ways to open the door:

- 1) Input password on the keyboard to open the door.
- 2) Access to call the owner and the owner enter the remote password to open the door.
- 3) Owner/other equipment call the access control and enter the access code to open the door. (access code should be included in the list of access configuration, and enable for remote calls to open the door)
- 4) Swipe the RFID cards to open the door.
- 5) By means of indoor switch to open the door.
- 6) Private access code to open the door.

Enable for local authentication, and set private access code. Input the access code directly under standby mode to open the door. In this way, the door log will record corresponding card number and user name.

7) Active URL control command to open the door.

URL is "http://user:pwd@host/cgi-bin/ConfigManApp.com?key=F\_LOCK&code=openCode"

- a. User and pwd is Web the user name and password.
- b. "openCode" is the remote control code to open the door.

Example: "http://admin:admin@172.18.3.25/cgi-bin/ConfigManApp.com?key=\*"

If access code is input correctly, the device will play sirens sound to prompt access control and the remote user, while input error by low-frequency short chirp.

Password input successfully followed by high-frequency sirens sound, while input error is followed by





high-frequency short chirp.

When door has been opened, the device will play sirens sound to prompt.

# **IV.Page settings**

### 1. Browser configuration

When the device and your computer are successfully connected to the network, enter the IP address of the device on the browser as http://xxx.xxx.xxx/ and you can see the login interface of the web page management.

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

User:		
Password:		
Language:	English	100

### 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: The default is not set, are free to add.
- Default user with root level:
  - User name: admin
  - Password: admin



# 3. Configuration via WEB

# (1) System

# a) Information

	Information	Account	Configurations	Upgrade	Auto Provision	FDMS	Tool
System							
	System Informati	on					
twork	Model:		i205				
	Hardware:		2.1				
ine	Software:		2.1.1.2898				
CE Eatting	Uptime:		01:13:25				
GS Setting	Last uptime:		00:00:00				
GS Access	MEMInfo:		ROM: 0.8/8	(M) RAM: 2.1/1	6(M)		
	Network						
GS Logs	Network mode		DHCP				
	MAC:		00:a8:34:6	8:24:81			
Function Key	IP:		172.18.3.102				
	Subnet mask:		255.255.0.0	)			
	Default gatewa	ау:	172.18.1.1				
	SIP Accounts						
	Line 1	5521	Re	gistered			
	Line 2	N/A	Ina	ctive			

Information			
Field Name	Explanation		
System Information	Display equipment model, hardware version, software version, uptime, Last		
System mormation	uptime and MEMinfo.		
Network	Shows the configuration information for WAN port, including connection mode of		
Network	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.		



### b) Account

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

	Information	Account	Configurations	Upgrade	Auto Provision	FDMS	Tools
> System							
› Network	Change Web Au Old Passwor	thentication Passw	vord				
> Line	New Passwo Confirm Pas						
› EGS Setting	Add New User			Apply			
> EGS Access	Username	tication Password					
› EGS Logs	Confirm Pas Privilege	sword		Administrators 🗸			
> Function Key			[	Add			
	User Accounts						
	Us	er	Privile	ge			
	adn	nin	Administ	rators		Delete	

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



# c) Configurations

	Information Account	Configurations Upgrade	Auto Provision	FDMS Tools
> System				
> Network	Export Configurations	Right click here to SAVE configu	irations in 'txt' format.	
> Line	Import Configurations	Right click here to SAVE configu	rations in 'xml' format.	
› EGS Setting		Configuration file:	Select	Import
> EGS Access	Reset to factory defaults	Click the [Reset] button to rese	t the phone to factory defau	ults.
› EGS Logs		ALL USER'S DATA WILL BE LOS Reset	T AFTER RESET!	
> Function Key				

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

## d) Upgrade

	Information	Account Co	onfigurations	Upgrade	Auto Provision	FDMS	Tools
> System							
> Network	Software upgrade	Current Sof	tware Version:	2.1.1.2898			
> Line		System Ima	age File		Select	Upgrade	e

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



## e) Auto Provision

	Information	Account	Configurations	Upgrade	Auto Provision	FDMS	Tools
> System							
> Network	Common Settin Current Cor	<b>igs</b> nfiguration Version					
› Line	CPE Serial 1		00100400FV02	00100 <mark>0000</mark> 00a8346	582481		
> EGS Setting		ion Password					
EGS Access		on File Encryption Key nfiguration File Encryp	02				
> EGS Logs	Save Auto F	Provision Information					
> Function Key	SIP Plug and Pl						
	Static Provision	ning Server >>					
	TR069 >>		Apply				

#### Auto Provision

Explanation					
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					
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.					
Serial number of the equipment					
Username for configuration server. Used for FTP/HTTP/HTTPS. If this					
is blank the phone will use anonymous					
Password for configuration server. Used for FTP/HTTP/HTTPS.					
Encryption key for the configuration file					
Encryption key for common configuration file					
Save the auto provision username and password in the phone until					
the server url changes					



DHCP Option	
Option Value	The equipment supports configuration from Option 43, Option 66,
Option Value	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 (PnP)	
	If this is enabled, the equipment will send SIP SUBSCRIBE messages
	to a multicast address when it boots up. Any SIP server
Enable SIP PnP	understanding 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 Protocol	PnP Transfer protocol – UDP or TCP
Update Interval	Interval time for querying PnP server. Default is 1 hour.
Static Provisioning Server	
Comune Address	Set FTP/TFTP/HTTP server IP address for auto update. The address
Server Address	can be an IP address or Domain name with subdirectory.
Configuration File Name	Specify configuration file name. The equipment will use its MAC ID
Configuration File Name	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	
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 Period	Time between transmissions of "Inform" Unit is seconds.



f) FDMS

	Information	Account	Configurations	Upgrade	Auto Provision	FDMS	Tools	
> System								
> Network	FDMS Settings Enable FDM	5						
› Line	FDMS Interv	al	3600					
› EGS Setting	Doorphone Info							
› EGS Access	Community Nar Building Numbe Room Number							
› EGS Logs			Apply					
FDMS Settings								
Enable FDMS	Enable/Disal	ole FDMS co	onfiguration					
FDMS Interval	The time to send sip Subscribe information to the FDMS server on a regular basis.							
PDIVIS IIILEI VAI	Unit seconds							
Doorphone Info Setti	ngs							
Community Name	The name of	the commu	unity where	the device is	s installed			

The name of the building where the equipment is installed

The name of the room where the equipment is installed

g) Tools
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**Building Number** 

**Room Number** 

	Information A	Account Configurations	Upgrade	Auto Provision	FDMS	Tools
System						
Network	Syslog					
Network	Enable Syslog					
Line	Server Address	0.0.0				
Line	Server Port	514				
	APP Log Level	None	~			
EGS Setting	SIP Log Level	None	~			
		Apply				
EGS Access	Network Packets Capt	ture				
› EGS Logs		Start				
> Function Key	Reboot Phone					
		Click [Reboot	button to restart t	he phone!		
		Reboot				



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.

Tools	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.				
Network Packets Capture					
Capture a packe	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.



# (2) Network

a) Basic

<u></u>	Network Status			
m	IP:	172.18.3.102		
work	Subnet mask:	255.255.0.0		
WOFK	Default gateway:	172.18.1.1		
	MAC:	00:a8:34:68:24:81		
	MAC Timestamp	20170718		
ietting	Settings			
	Static IP 〇	DHCP	PPPoe O	
locess	DNS Server Configured by	DHCP		
	Primary DNS Server			
.ogs	Secondary DNS Server			
		Apply		
ion Key	Service Port Settings 😡			
	Web Server Type	HTTP V		
	HTTP Port	80		
	HTTPS Port	443		
		Apply		

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 appropriate ne	etwork 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 Configured by	Select the Configured mode of the DNS Server.
Primary DNS Server	Enter the server address of the Primary DNS.



Secondary DNS Server

Enter the server address of the Secondary DNS.

After entering the new settings, click the APPLY button. 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**

U		
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 the default. Setting this port to 0 will disable HTTP access.	
HTTP Port	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. Before using https, an https authentication certification	
HTTPS Port	must be downloaded into the equipment.	
	Default value is 443. To enhance security, change this from the default.	

Note:

1) Any changes made on this page require a reboot to become active.

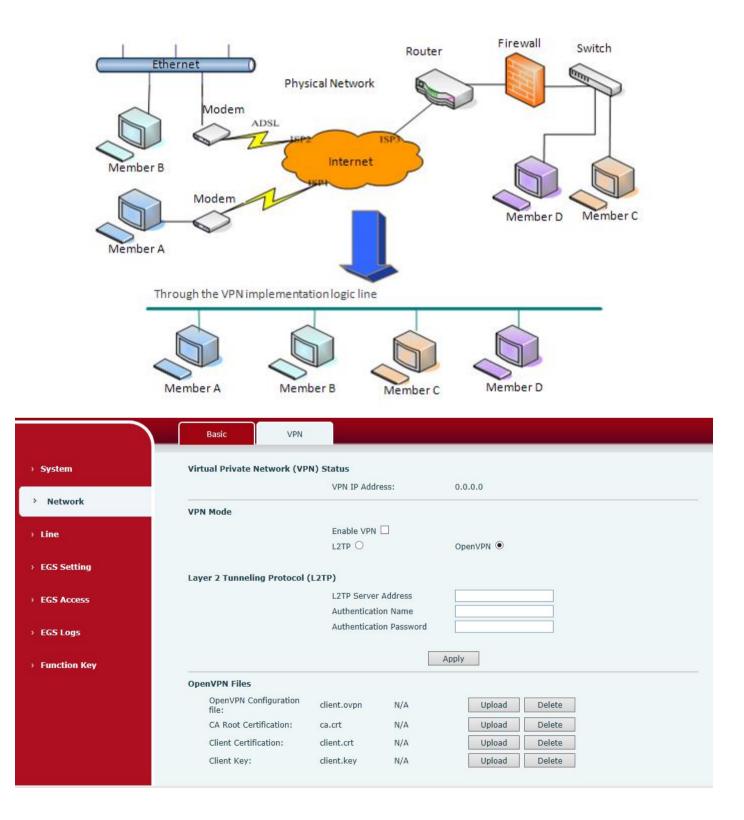
2) It is suggested that changes to HTTP Port be values greater than 1024. Values less than 1024 are reserved.

3) If the HTTP port is set to 0, HTTP service will be disabled.



#### b) VPN

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	
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. After the	
OpenVPN	selection is made, the configuration should be saved and the phone be	
	rebooted.)	
Layer 2 Tunneling Protoco	l (L2TP)	
L2TP Server Address	Set VPN L2TP Server IP address.	
Authentication Name	Set User Name access to VPN L2TP Server.	
Authentication Password	Set Password access to VPN L2TP Server.	
Open VPN Files	·	
Upload or delete Open VP	N Certification Files	

# (3) Line

## a) SIP

Configure a SIP server on this page.

	SIP Basic Setting	ps Dial Peer		
› System				
> Network	Line SIP 1 🗸			
	Basic Settings >>			
> Line	Line Status	Registered	SIP Proxy Server Address	172.18.1.88
	Phone number	5521	SIP Proxy Server Port	5060
> EGS Setting	Display name	5521	Backup Proxy Server Address	
	Authentication Name	5521	Backup Proxy Server Port	5060
EGS Access	Authentication Password	•••••	Outbound proxy address	1
	Activate		Outbound proxy port	
› EGS Logs			Realm	
247	Codecs Settings >>			
> Function Key	Advantation of the second			
	Advanced Settings >>			
		Apply		
odecs Settings >>				
Disabled Codecs		Enabled Codecs		
		G.722		
		G.711U		
	←	G.711A G.729AB		



#### 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		Enable DNS SRV	
Registration Expiration	3600 Second(s)	Keep Alive Type	SIP Optior 🗸
Use VPN	$\checkmark$	Keep Alive Interval	60 Second(s)
Use STUN		Sync Clock Time	
Convert URI	$\checkmark$	Enable Session Timer	
DTMF Type	RFC2833 🗸	Session Timeout	0 Second(s)
DTMF SIP INFO Mode	Send */# 🗸	Enable Rport	
Transportation Protocol	UDP 🔽	Enable PRACK	
Local Port	5060	Auto Change Port	
SIP Version	RFC3261 🗸	Keep Authentication	
Caller ID Header	PAI-RPID-	Auto TCP	
Enable Strict Proxy		Enable Feature Sync	
Enable user=phone	$\checkmark$	Enable GRUU	
Enable SCA		BLF Server	
Enable BLF List		BLF List Number	
SIP Encryption		RTP Encryption	
SIP Encryption Key		RTP Encryption Key	
А	pply		

~
SIP
<b>—</b> • • •

SIP		
Field Name Explanation		
Basic Settings (Choose the SIP line to configured)		
Line Status	Display the current line status at page loading. To get the up to date line	
	status, user has to refresh the page manually.	

1



Username	Enter the username of the service account.	
Display name	Enter the display name to be sent in a call request.	
Authentication Name	Enter the authentication name of the service account	
Authentication Password	Enter the authentication password of the service account	
Activate	Whether the service of the line should be activated	
SIP Proxy Server Address	Enter the IP or FQDN address of the SIP proxy server	
SIP Proxy Server Port	Enter the SIP proxy server port, default is 5060	
Outbound proxy address	Enter the IP or FQDN address of outbound proxy server provided by the service provider	
Outbound proxy port	Enter the outbound proxy port, default is 5060	
Realm	Enter the SIP domain if requested by the service provider	
Codecs Settings		
Set the priority and availability of	of the codecs by adding or remove them from the list.	
Advanced Settings		
Call Forward Unconditional	Enable unconditional call forward, all incoming calls will be forwarded to the number specified in the next field	
Call Forward Number for Unconditional	Set the number of unconditional call forward	
Call Forward on Busy	Enable call forward on busy, when the phone is busy, any incoming call will be forwarded to the number specified in the next field	
Call Forward Number for Busy	Set the number of call forward on busy	
	Enable call forward on no answer, when an incoming call is not	
Call Forward on No Answer	answered within the configured delay time, the call will be forwarded to the number specified in the next field	
Call Forward Number for No Answer	Set the number of call forward on no answer	
Call Forward Delay for No Answer	Set the delay time of not answered call before being forwarded	
Hotline Delay	Set the delay for hotline before the system automatically dialed it	
Enable Auto Answering	Enable auto-answering, the incoming calls will be answered automatically after the delay time	
Auto Answering Delay	Set the delay for incoming call before the system automatically answered it	
Subscribe For Voice Message	Enable the device to subscribe a voice message waiting notification, if enabled, the device will receive notification from the server if there is voice message waiting on the server	
Voice Message Number	Set the number for retrieving voice message	



Voice Message Subscribe Period	Set the interval of voice message notification subscription		
	Enable hotline configuration, the device will dial to the specific number		
Enable Hotline	immediately at audio channel opened by off-hook handset or turn on		
	hands-free speaker or headphone		
Hotline Number	Set the hotline dialing number		
	Enable Do-not-disturb, any incoming call to this line will be rejected		
Enable DND	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 Standard	Set the standard to be used for anonymous		
Dial Without Registered	Set call 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.		
Use Quote in Display Name	Whether to add quote in display name		
Ring Type	Set the ring tone type for the line		
	Set the type of call conference, Local=set up call conference by the		
Conference Type	device itself, maximum supports two remote parties, Server=set up call		
	conference by dialing to a conference room on the server		
Conver Conference Number	Set the conference room number when conference type is set to be		
Server Conference Number	Server		
Transfer Timeout	Set the timeout of call transfer process		
Enable Long Contact	Allow more parameters in contact field per RFC 3840		
Enable Missed Call Log	If enabled, the phone will save missed calls into the call history record.		
Deserve Circle Codes	If setting enabled, the device will use single codec in response to an		
Response Single Codec	incoming call request		
	When this setting is enabled, the features in this section will not be		
Line Frankrug Carda	handled by the device itself but by the server instead. In order to		
Use Feature Code	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 Type	Set the line to collaborate with specific server type		
Registration 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		

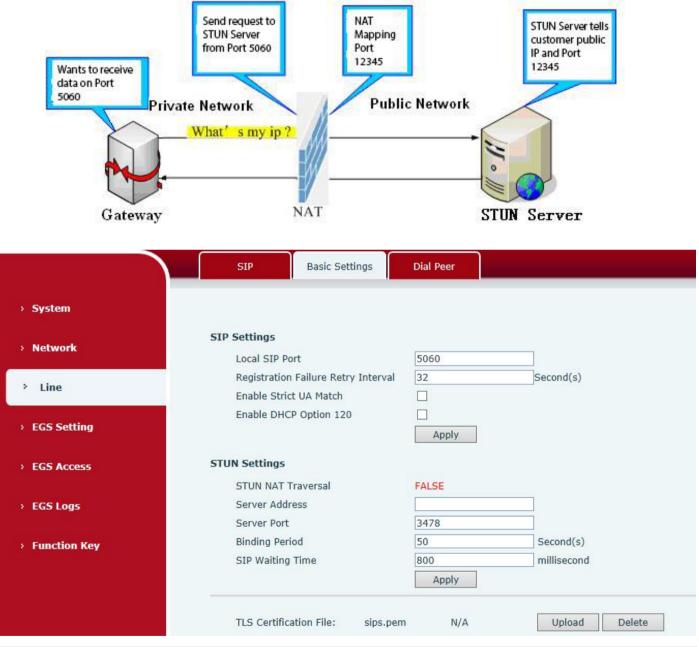


DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'	
Transportation Protocol	Set the line to use TCP or UDP for SIP transmission	
SIP Version	Set the SIP version	
Caller ID Header	Set the Caller ID Header	
Enable Strict Proxy	Enables the use of strict routing. When the phone receives packet 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 ca session will be ended if there is not new session timer event updat 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	
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)	
BLF Server	The registered server will receive the subscription package from ordinary application of BLF phone. Please enter the BLF server, if the sever does not support subscription package, the registered server and subscription server will be separated.	
BLF List allows one BLF key to monitor the status of a group BLF lists are supported.		
SIP Encryption	Enable SIP encryption such that SIP transmission will be encrypted	
SIP Encryption Key	Set the pass phrase for SIP encryption	
RTP Encryption	Enable RTP encryption such that RTP transmission will be encrypted	
RTP Encryption Key	Set the pass phrase for RTP encryption	



#### b) Basic Settings

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.



Basic Settings		
Field Name	Explanation	
SIP Settings		
Local SIP Port	Set the local SIP port used to send/receive SIP messages.	
Registration Failure Retry Interval	Set the retry interval of SIP REGISTRATION when registration failed.	



Enable Strict UA Match	Enable or disable Strict UA Match
STUN Settings	
Server Address	STUN Server IP address
Server Port	STUN Server Port – Default is 3478.
	STUN blinding period – STUN packets are sent at this interval to
Binding Period	keep the NAT mapping active.
SIP Waiting Time	Waiting time for SIP. This will vary depending on the network.
TLS Certification File	
Upload or delete the TLS certifi	cation file used for encrypted SIP transmission.
Note: the SIP STUN is used to a	achieve the SIP penetration of NAT, is the realization of a service, when the
equipment configuration of the	e 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.

## c) Dial peer

	SIP Basic Settings Dial Peer
› System	
> Network	Select File     Browse     (dialPeer.csv)     Update
> Line	Dial Peer Table
› EGS Setting	Click here to Save Dial Peer Table         Total: 0       Prev       Page: <ul> <li>Next</li> <li>Delete</li> <li>Delete All</li> </ul>
> EGS Access	Index Number Destination(Optional) Port (Optional) Call Mode Alias(Optional) Suffix Deleted Length (Optional) (Optional)
› EGS Logs	Add Dial Peer       Number     Destination(Optional)       Port(Optional)     Alias(Optional)
Function Key	Call Mode     SIP     Suffix(Optional)       Deleted Length(Optional)     Suffix(Optional)
	Add Modify

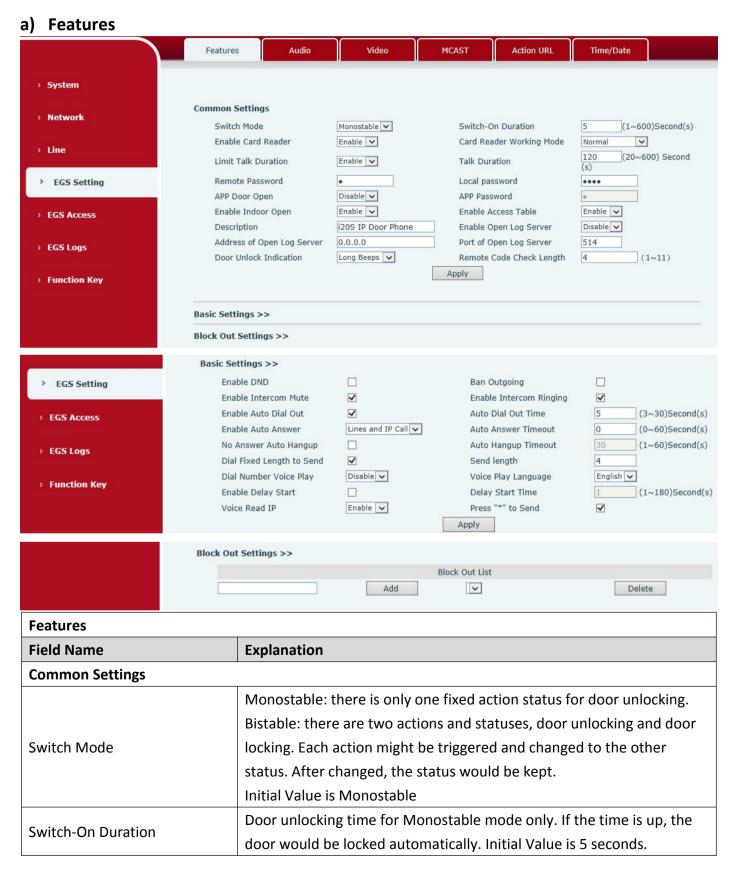
Import Dial peer Table	e
Field Name	Explanation
Select File	Select an existing dialing rule file. The file type must be a .CSV
Add Dial Peer	
	In order to add an outgoing call number, the outgoing call number can be divided
	into two types: one is the exact match, and after the exact match, if the number is
Number	exactly the same as the user dialing the called number, the device will use the IP
Number	address of this number mapping or (This is the area code prefix function of the
	PSTN). If the number matches the N-bit (prefix number length) of the called
	number, the device uses the IP address or configuration mapped to this number.



	Make a call. Configuration prefix matching needs to be followed by a prefix
	number to match the exact match number; the longest support of 30 bits; also
	supports the use of x format and range of numbers.
	Configure the destination address and, if configured as a point-to-point call, write
Destination	the peer IP address directly. Can also be set to domain name, by the device DNS
Destination	server to resolve the specific IP address. If it is not configured, the IP address is
	0.0.0.0. This is an optional configuration item
Dort	Configure the signaling port of the other party. This is an optional configuration
Port	item. The default is 5060v
Alian	Configure aliases, this is an optional item: the replacement number used when
Alias	the prefix is prefixed, and no alias when configured
Note: aliases are divide	ed into four types and must be combined with the replacement length:
1) add: xxx, add xxx be	fore the number. This can help users save dialing length;
2) all: xxx, all replaced	by xxx; can achieve speed dial, such as user configuration dial-up 1, then by
configuring all: numbe	r to change the actual call out the number;
3) del, delete the num	ber before the n bit, n by the replacement length set;
4) rep: xxx, the numbe	r n before the number is replaced by xxx, n is set by the replacement length. For
example, if the user wa	ants to dial the PSTN (010-62281493) through the floor service provided by the
VoIP operator, and the	actual call should be 010-62281493, then we can configure the called number 9T,
then rep: 010, and the	n delete the length Set to 1. Then all users call the 9 at the beginning of the phone
will be replaced with 0	10 + number sent. To facilitate the user to call the habit of thinking mode;
Call Mode	Configuration selection of different signaling protocols, SIP / IAX2;
Suffix	Configure the suffix, this is optional configuration items: that is, after the dial-up
Sumx	number to add this suffix, no configuration shows no suffix;
Deleted Length	Configure the replacement / delete length, the number entered by the user is
Deleted Length	replaced / deleted by this length; this is an optional configuration item;



## (4) EGS Setting





Enable Card Reader	Enable or disable card reader for RFID cards.
	Set ID card stats:
	Normal: This is the work mode, after the slot card can to open the
	door.
Card Reader Working Mode	Card Issuing: This is the issuing mode, after the slot card can to add ID
	cards.
	Card Revoking: This is the revoking mode, after the slot card can to
	delete ID cards.
Limit Talk Duration	If enabled, calls would be forced ended after talking time is up.
Tall Duration	The call will be ended automatically when time up. Initial Value is 120
Talk Duration	seconds
Remote Password	Remote door unlocking password. Initial Value is "*".
Local password	Local door unlocking password via keypad, the default password length
Local password	is 4. Initial Value is "6789".
APP Door Open	Enable or disable the APP Door Open
APP password	APP door unlocking password. Initial Value is "*".
Enable Indoor Open	Enable or disable to use indoor switch to unlock the door.
	Enable Access Table: enter <access code=""> for opening door during</access>
	calls.
Enable Access Table	Disable Access Table: enter <remote password=""> for opening door</remote>
	during calls.
	Default Enable.
Description	Device description displayed on IP scanning tool software. Initial Value
Description	is "i20S IP Door Phone".
Enable Open Log Server	Enable or disable to connect with log server
Address of Open Log Server	Log server address(IP or domain name)
Port of Open Log Server	Log server port (0-65535) , Initial Value is 514.
Door Unlock Indication	Indication tone for door unlocked. There are 3 type of tone:
	silent/short beeps/long beeps.
	The remote access code length would be restricted with it. If the input
Remote Code Check Length	access code length is matched with it, system would check it
	immediately. Initial Value is 4.
Basic Settings	T
Enable DND	DND might be disabled phone for all SIP lines, or line for SIP
	individually. But the outgoing calls will not be affected
Ban Outgoing	If enabled, no outgoing calls can be made.
Enable Intercom Mute	If enabled, mutes incoming calls during an intercom call.



Enable Intercom Ringing	If enabled, plays intercom ring tone to alert to an intercom call.
Enable Auto Dial Out	Enable Auto Dial Out
Auto Dial Out Time	Set Auto Dial Out Time
Enable Auto Answer	Enable Auto Answer function
Auto Answer Timeout	Set Auto Answer Timeout
No Answer Auto Hangup	Enable automatically hang up when no answer
Auto Hangup Timeout	Configuration in a set time, automatically hang up when no answer
Dial Fixed Length to Send	Enable or disable dial fixed length to send.
Candlongth	The number will be sent to the server after the specified numbers of
Send length	digits are dialed.
Dial Number Voice Play	Configuration Open / Close Dial Number Voice Play
Voice Play Language	Set language of the voice prompt
Enable Delay Start	Enable or disable the start delay
Delay Start Time	Set start delay time
Voice Read IP	Enable or disable voice broadcast IP address
Press "*" to Send	Enable or disable the Press "*" to Send, Initial Value is enable
Block Out Settings	· ·
Add or delete blocked numbe	ers – enter the prefix of numbers which should not be dialed by the phone.

Add or delete blocked numbers – enter the prefix of numbers which should not be dialed by the phone. For example, if 001 is entered, the phone would not dial any number beginning with 001.

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



## b) Audio

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

	Features Audio	Video	MCAST	Action URL	Time/Date	
> System	Audio Settings					
> Network	First Codec Third Codec Fifth Codec	G.722 V G.711U V	Second C Fourth C Sixth Co	odec	G.711A G.729AB None	
→ Line	DTMF Payload Type	101 (96~127)	Default R	ling Type	Type 1 🗸	
> EGS Setting	Pass Tone G.729AB Payload Length G.722 Timestamps	Default  20ms  160/20ms	Fail Tone Tone Sta G.723.1	ndard	Default V United Stav 6.3kb/s V	
> EGS Access	Speakerphone Volume Broadcast Output Volume	5 (1~9) 5 (1~9)		it Volume one Volume		1~9) 0~9)
> EGS Logs	Enable VAD					
› Function Key		Apply				
	Sound Update					
	Sound Update	Select (*	.wav) Upgra	de		
	Sound Delete	9				

Audio Setting				
Field Name	Explanation			
First Codec	•	The first codec choice: G.711A/U, G.722, G.723.1, G.726-32,		
First Couec		G.729AB		
Second Codec		The second codec choice: G.711A/U, G.722, G.723.1, G.726-32,		
Second Codec		G.729AB, None		
Third Codec		The third codec choice: G.711A/U, G.722, G.723.1, G.726-32,		
mind Codec		G.729AB, None		
Fourth Codec		The forth codec choice: G.711A/U, G.722, G.723.1, G.726-32,		
Fourth Codec		G.729AB, None		
DTMF Payload Type		The RTP Payload type that indicates DTMF. Default is 101		
Default Ring Typ	be	Ring Sound – There are 9 standard types and 3 User types.		
G.729AB Payloa	G.729AB Payload Length G.729AB Payload Length – Adjusts from 10 – 60 mSec.			
Tone Standard		Configure tone standard area.		
G.722 Timestam	ıps	Choices are 160/20ms or 320/20ms.		
G.723.1 Bit Rate	723.1 Bit Rate Choices are 5.3kb/s or 6.3kb/s.			
Speakerphone \	/olume	Set the speaker calls the volume level.		
MIC Input Volur	ne	Set the MIC calls the volume level.		



Broadcast Output Volume	Set the broadcast the output volume level.
Signal Tone Volume	Set the audio signal the output volume level.
Enable VAD	Enable or disable Voice Activity Detection (VAD). If VAD is enabled,
	G729 Payload length cannot be set greater than 20 mSec.

## c) Video

	Features	Audio	Video	MCAST	Action URL	Time/Date
› System						
> Network	Ip Camera Settings					
	Position		ipCamera		(40 Characters)	
> Line	User		fanvil			
2 Line	Password		•••••			
	Ip Camera Brand		HIKVISIOI 🗸			
EGS Setting	IP		172.18.2.152			
	Port		800			
> EGS Access			Apply			
> EGS Logs	<b>RTSP Information</b>					
	Main Stream Url :	rtsp://fan	vil:fanvil123@172.18	2.152:800/ISAP	I/streaming/channels/1	01 Preview
› Function Key	Sub Stream Url :	rtsp://fan	vil:fanvil123@172.18	2.152:800/ISAP	I/streaming/channels/1	02 Preview

Connection mode	Select external, click [Apply], restart the device
IP Camera Settings(Ext	ernal Mode)
Field Name	Explanation
User name	External camera login required account
Password	External camera login password required
Camera type	Select the camera manufacturers
ID address	IP address of the camera, please use the camera matching scan tool to obtain
IP address	the IP address
Port	Camera port number
	Click [Apply], the connection automatically shows the camera does not show
RTSP information	the reverse
Droview	Copy and paste the main stream or sub-stream Url into the VLC player, or click
Preview	[Preview] to display the current camera video



#### d) MCAST

	Features Audio	MCAST Act	ion URL Time/Date	
System				
Network	MCAST Settings			
Nelwork	Priority	1	~	
Line	Enable Page Priority			
Line	Index/Priority	Name		Host:port
EGS Setting	1			
EG3 Setting	2			
	3			
EGS Cards	4			
	5			
EGS Logs	6			
	7			
Function Key	8			
	9			
	10			10

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 addresses, 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:

Priority	1	<b>*</b>
Enable Page Priority		
Index/Priority	Name	Host:port
1	SS	239.1.1.1:1366
2	ee	239.1.1.1:1367

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

riority	3 👻		
Enable Page Priority			
Index/Priority	Name	Host:port	
1	group 1	224.0.0.2:2366	
2	group 2	224.0.0.2:1366	
3	group 3	224.0.0.6:3366	
4			
5			
6			
7			
8			
9			
10			

#### • 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

	Features	Audio	Video	MCAST	Action URL	Time/Date	
. Suctom	Action URL Event Se	ettings					
> System	Active URI Limit	IP					
> Network	Setup Complete	d					
7 Network	Registration Suc	ceeded					
	Registration Disa	abled					
> Line	Registration Fail	ed					
	Off Hooked						
EGS Setting	On Hooked						
	Incoming Call						
> EGS Access	Outgoing calls						
	Call Established						
> EGS Logs	Call Terminated						
	DND Enabled						
Function Key	DND Disabled						
	Mute						
	Unmute						
	Missed calls						
	IP Changed						
	Idle To Busy						
	Busy To Idle						
			Apply				

#### **Action URL Event 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

### f) Time/Date

	Features Audio	Video	MCAST	Action URL	Time/Date	
> System						
	Network Time Server Settings					
Network	Time Synchronized via SNT	• 🔽				
- 0	Time Synchronized via DHC	P 🗌				
Line	Primary Time Server	time.nist.gov				
	Secondary Time Server	pool.ntp.org				
EGS Setting	Time zone	(UTC+8) China,	Singapore,Austra	ali 🗸		
	Resync Period	60	(1~500	0)Second(s)		
EGS Access	Date Format					
EGS Logs	Date Format	1 JAN MON	~			



Line	Daylight Saving Time Setting	gs	
<u> </u>	Location	China(Beijing)	
EGS Setting	DST Set Type	Automatic 🗸	
Transie and the second	Fixed Type	Disabled 🗸	
> EGS Access	Offset	0 Minut	te
		Start	End
> EGS Logs	Month	January 🖌	January 🗸
	Week	1	
Function Key	Weekday	Sunday 🗸	Sunday
	Hour	0	0
		Apply	
	Manual Time Settings		

Time/Date	
Field Name	Explanation
Network Time Server Setti	ngs
Time Synchronized via SNTP	Enable time-sync through SNTP protocol
Time Synchronized via DHCP	Enable time-sync through DHCP protocol
Primary Time Server	Set primary time server address
Secondary Time Server	Set secondary time server address, when primary server is not reachable, the
	device will try to connect to secondary time server to get time synchronization.
Time zone	Select the time zone
Resync Period	Time of re-synchronization with time server
Date Format	
Date Format	Select the time/date display format
Daylight Saving Time Settir	ngs
Location	Select the user's time zone specific area
DST Set Type	Select automatic DST according to the preset rules of DST, or the manually input rules
Offset	The DST offset time
Month Start	The DST start month
Week Start	The DST start week
Weekday Start	The DST start weekday
Hour Start	The DST start hour
Month End	The DST end month



Week End	The DST end week			
Weekday End	The DST end weekday			
Hour End	The DST end hour			
Manual Time Settings				
The time set by hand, need	to disable SNTP service first.			

# (5) EGS Access

> System	Import Access Table			
	Select File	Browse (acce	essList.csv) Update	
> Network	Access Table >>			
0.008800				Click here to Save Access Table
> Line	Total: 1 Prev Page	: 1 🔽 Next		Delete Delete All
> EGS Setting	Index Name ID II	Department Position Location N	Number Fwd Access Double Number Number Code Auth	Profile Type Issuing Card Date State
	□ 1 Hugo 0001231231		1234 Disable	None Guest 2017/08/01 15:41:14 Enable
> EGS Access	Add Access Rule			
	Name	*	Location	9
> EGS Logs	ID		Number	<b>~</b>
	Card State Enabl	e 🗸	Fwd Number	
Function Key	Department		Access Code	9
	Position		Double Auth Disab	le 🗸 😡
	Type Guest		Profile None	~
		Add	Modify	
		La constanti de la constanti d		
u Sustam	Profile Setting			
> System	Profile	Profile1	Profile Name	
	Weekday	Statue	Start Time(00:00-23:59)	End Time(00:00-23:59)
> Network	Sunday	No	00:00	00:00
	Monday	No 🗸	00:00	00:00
> Line	Tuesday	No	00:00	00:00
	Wednesday	No	00:00	00:00
> EGS Setting	Thursday	No	00:00	00:00
-	Friday	No 🗸	00:00	00:00
> EGS Access	Saturday	No 🗸	00:00	00:00
			Apply	
› EGS Logs	Administrator Table >>			
	Add Admin Card	Issuer 🗸	Add	
Function Key	Total: 0 Prev Page	e: 🗸 Next		Delete Delete All
		ID	Issuing Date	Туре

Explanation
able
e> to choose to import remote access list file (access List.csv) and then clicking
atch import remote access rule.



Access Table	
According to entra	nce guard access rules have been added, you can choose single or multiple rules on
this list to delete o	peration.
Add Access Rule	
Name(necessary)	User name
1 1'	Virtual extension number, used to make position call instead of real number.
Location	It might be taken with unit number, or room number.
	RFID card number. You can manually fill in the first 10 digits of the card number or
ID	select the existing card number
Number	User phone number
Card State	Enable or disable holder's RFID card
Fwd Number	Call forwarding number when above phone number is unavailable.
Department	Card holder's department
	1/ When the door phone answers the call from the corresponding <phone num=""></phone>
	user, then the <phone num=""> user can input the access code via keypad to unlock the</phone>
Access Code	door remotely.
	2/ The user's private password should be input via keypad for local door unlocking.
	The private password format is Location*Access Code.
Position	Card holder's position
Double Auth	When the feature is enabled, private password inputting and RFID reading must be
Double Auth	matched simultaneously for door unlocking.
Tupo	Host: the door phone would answer all call automatically.
Туре	Guest: the door phone would ring for incoming call, if the auto answer is disabled.
Profile	It is valid for user access rules (including RFID, access code, etc) within corresponding
Prome	time section. If NONE is selected, the feature would be taken effect all day.
Profile Setting	
Profile	There are 4 sections for time profile configuration
Profile Name	The name of profile to help administrator to remember the time definition
Status	If it is yes, the time profile would be taken effect. Other time sections not included in
Status	the profiles would not allow users to open door
Start Time	The start time of section
End Time	The end time of section
Administrator Tab	le
Add Admin Card	You should input the top 10 digits of RFID card numbers. for example, 0004111806, selected the type of admin card , click <add>.</add>
Type: Issuer and re	
	ard is in normal state, swipe card (issuing card) would make entrance guard into the
when entrance gu	ard is in normal state, swipe card (issuing card) would make entrance guard into the



issuing state, and t	hen you can swipe a new card, which the card would be added into the database;				
when you swipe th	e issuing card again after cards added done, entrance guard would return to normal				
state. Delete card operation is the same with issuing card.					
The device can sup	port up to 10 admin cards, 5000 copies of ordinary cards.				
Note: in the issuing	state, swiping deleted card is invalid.				
Shows the ID, Issui	ng Date and Type of admin card				
Delete	Clicking <delete> would delete the admin card list of the selected ID cards.</delete>				
Delete All	Click <delete all="">, to delete all admin card lists.</delete>				

## (6) EGS Logs

According to open event log, can record up to 200,000 open event, after more than cover the old records. <u>Click here to Save Logs</u> Right click on the links to select save target as the door log can export CSV

### format.

Door Open Log
Page :     Prev     Next     Delete All     Click here to Save Logs       Door     Result     Time     Access Name     Access ID     Type
Door Result Time Access Name Access ID Type
Explanation
Show the results of the open the door (Success or Failed)
Open the door of time.
Duration of open the door.
If is the open the door for slot card or remote, will display remote access the name.
1. If open the door way to brush card shows card number
2. If the door way to open the door for the remote display the phone number of the
door.
3. If open the door way to open the door for local, no display information.
Open type: 1. local, 2. Remote, 3. Brush card (Temporary Card, Valid Card and Illegal
Card).
Note: there are three kinds of credit card feedback results.
1. Temporary Card (Only add the card number, without adding other rules )
2. Valid Card (Has been added access rules)
3. Illegal Card (Did not add information)



# (7) Function Key

> Network	Function Key Setti	ngs					
	Key	Туре		Number 1	Number 2	Line	Subtype
› Line	DSS Key 1	Key Event	~			SIP1 V	ОК
	Advanced Settings						
EGS Setting EGS Access	Advanced Settings Use Function Ke Hot Key Dial Mo	ey <mark>to Answe</mark> r	Enable Main-Sec	• ondary •	Enable Speed Dial Hang	up Enab	ole V

### > Key Event

Set the key type to the Key Event.

Key	Туре	Number 1	Number 2	Line	Subtype
DSS Key 1	Key Event			SIP1 V	OK
		A	pply		None Dial Release OK Handfree

Туре	Subtype	Usage
	None	No responding
	Dial	Dialing function
Key Event	Release	Delete password input, cancel dialing input and end call
	ОК	identification key

### > Hot Key

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.

Key	Туре	Number 1	Number 2	Line	Subtype	
DSS Key 1	Hot Key 🔻			SIP1 •	Speed Dial	۲
			65 53	- R.,.	Speed Dial	
		Δι	oply		Intercom	



Туре	Number	Line	Subtype	Usage
Hot Key	Fill the called party's SIP	The SIP account	Speed Dial	Using Speed Dial mode together with Enable Speed Dial Hangup Enable , can define whether this call is allowed to be hung up by re-pressing the speed dial key.
	account or IP address	nt or correspondi	Intercom	In Intercom mode, if the caller's IP phone supports Intercom feature, the device can automatically answer the Intercom calls

### > Multicast

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	Туре	Number 1	Number 2	Line	Subtyp	e
DSS Key 1	Multicast 🔻			SIP1 V	G.722	•
	, <u>, , , , , , , , , , , , , , , , , , </u>	A	pply	1,	G.711A G.711U G.722 G.723.1 G.726-32 G.729AB	

Туре	Number	Subtype	Usage
		G.711A	Norrowband space coding (4/hz)
	Set the host IP address and	G.711U	Narrowband speech coding (4Khz)
Multicast	port number, the middle	G.722	Wideband speech coding (7Khz)
willicast	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.

#### $\Leftrightarrow \quad \text{calling configuration} \quad$

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



# V. Appendix

# 1. Technical parameters

Communica	tion protocol	SIP 2.0(RFC-3261)		
Main chipse	•	Broadcom		
	DSS Key	1(Stainless steel)		
Keys	Numeric keyboard	Support		
	MIC	1		
A	Speaker	3W/4Ω		
Audio	Volume control	Adjustable		
	Full duplex speakerphone	Support (AEC)		
Speech	Protocols	RTP		
flow Decoding		G.729、G.723、G.711、G.722、G.726		
Ports	Active Switched Output	12V/700mA DC		
WAN		10/100BASE-TX s Auto-MDIX, RJ-45		
RFID/IC care	d roador	EM4100 (125Khz)		
		MIFARE One(13.56Mhz)		
Power supp	ly mode	12V / 1A DC or PoE		
РоЕ		PoE 802.3af (Class 3 - 6.49~12.95W)		
Cables		CAT5 or better		
Shell Mater	ial	Metal panel, ABS face-piece and back shell		
Working ter	mperature	-10°C to 60°C		
Working hu	midity	10% - 90%		
Storage ten	nperature	-40°C to 70°C		
Installation	way	Wall-mounting		
External size	e	160 x 93 x 35mm		
Package size	e	209 x 118 x 64mm		
Gross weigh	nt	420g		



### 2. Basic functions

- 2 SIP Lines
- PoE Enabled
- Full-duplex speakerphone (HF)
- Numeric keypad (Dial pad or Password input)
- Intelligent DSS Keys (Speed Dial/intercom etc)
- Wall-mounting
- Integrated RFID Card reader
- 1 indoor switch interface
- 1 electric lock relay
- External power supply
- Door phone: call, password, RFID card, indoor switch
- Protection level: IP65, CE/FCC

### 3. Schematic diagram





# **VI.Other instructions**

### 1. Open door modes

### Local control

- 1) Local Password
- ♦ Set <Local Password> (the password is "6789" by default) via DOOR PHONE\DOOR PHONE as above.
- ♦ Input password via keypad and press the "#" key, then the door will be unlocked.

#### 2) Private access code

- ♦ Set <Add Access Rule\Access Code> and enable local authentication.
- ♦ Input access code via keypad and press the "#" key, then the door will be unlocked.

### Remote control

- 1) Visitors call the owner
- Visitors can call the owner via position speed dial or phone number. (After setting the speed dial key, visitors can press it to call direct.)
- $\diamond$  The owner answers the call and presses the "\*" key to unlock the door for visitors.

#### 2) Owner calls visitors

- ♦ Owner calls visitors via SIP phone.
- ♦ SIP door phone answers the call automatically.
- ♦ Owner inputs corresponding <Access codes> via SIP phone keypad to unlock the door.

### • Swiping cards

♦ Use pre-assigned RFID cards to unlock the door, by touching RFID area of the device.

### Indoor switch

♦ Press indoor switch, which is installed and connected with the device, to unlock the door.

Enable Indoor Open	Enable 🗸	Enable Access Table	Enable 🗸	
Description	i20S IP Door Phone	Enable Open Log Server	Disable 🗸	
Address of Open Log Server	0.0.0.0	Port of Open Log Server	514	
Door Unlock Indication	Long Beeps 🗸	Remote Code Check Length	4	(1~11)
	[	Apply		

### 2. Management of card

#### 1) Administrator Table

<Issuer> and <Revocation>



Add Ad Card	min [	Issuer	Add	
	Index	ID	Issuing Date	Туре
	1	0003476384	2016/08/17 11:26:12	Issuer
	2	0003408919	2016/08/17 11:26:23	Revocation

#### • Add Administrator cards

Input a card's ID, selected <Issuer> or <Revocation> in the types and Clicked <Add>, you can add administrator card.

Administrate	or Table	2 >>					
Add Adi Card	min	0003476384		Issuer	$\sim$	Add	
	Index		ID	Issuer Revocat	tion		Issuing Date

#### • Delete Administrator cards

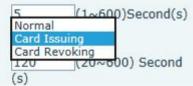
Select the admin card of need to delete, click <Delete>.

Add Ad Card	min	Issuer	Add	
	Index	ID	Issuing Date	Туре
	1	0003476384	2016/08/17 11:26:12	Issuer
	2	0003408919	2016/08/17 11:26:23	Revocation

### 2) Add user cards

- Method 1: used to add cards for starters typically
- $\diamond$  In web page < EGS Setting  $\rightarrow$  Features  $\rightarrow$  Card Reader Working Mode > option, select <Card Issuing>.

Switch-On Duration	5
	Norr
Card Reader Working Mode	Card
	Card
Talk Duration	(5)



- $\diamond$  Click <Apply>, Card Reader would be entered the issuing status.
- Use new card to touch card reader induction area, and then you might hear the confirmed indication tone from the device. Repeat step can to add more cards.
- $\diamond$  In web page < EGS Setting  $\rightarrow$  Features  $\rightarrow$  Card Reader Working Mode > option, select <Normal>.

Switch-On Duration	5 (1	~600)Second(s)
Card Reader Working Mode	Normal	
Talk Duration	Card Issuing Card Revoking	00) Second
	(s)	



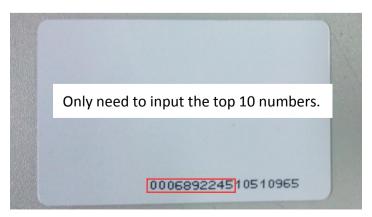
- $\diamond$  Click <Apply>, Card Reader would be back to the Normal status.
- $\diamond$  The issuing records can be found from the door card table list.

Tota	1: 2	Pre	v Page: 1	V N	ext						0	Dele	te Dele	ete All
	Index	Name	ID	Department	Position	Location	Number	Fwd Number	Access Code	Double Auth	Profile	Туре	Issuing Date	Card State
	1	joe	0000127423							Disable	None	Guest	2017/06/29 17:31:23	Enable
	2	zhangsan	0123031310							Disable	None	Guest	2017/06/29 17:30:58	Enable

- Methods 2: used to add cards for professionals
- ♦ Use <Issuer admin card> to touch card reader induction area, and it would be entered issuing card status.
- Use new card to touch card reader induction area, and you might hear the confirmed indication tone from the device. Repeat step 2 to add more cards.
- ♦ Use <Issuer admin card> to touch card reader induction area again, it would be back to normal working status.
- Method 3: use to add few cards
- ♦ Input cards number in <EGS Setting\Add Access Rule\ID> page, and then click <Add>

Name		★ Location		0
D		• Number		
Card State	Enable 🔻	Fwd Number		
Department		Access Code		0
Position		Double Auth	Disable 🔻 🚺	
ype	Guest 🔻	Profile	None 🔻	

Note: you can also use the USB card reader connected with PC to get cards ID automatically.





### 3) Delete user cards

- Method 1: used to batch delete cards for starters.
- ♦ In web page < EGS Setting → Features → Card Reader Working Mode > option, select < Card Revoking>.

Card Reader Working Mode Talk Duration Local password

Card Revoking 🔻	
Normal Card Issuing	0) Second(s)
Card Revoking	

- $\diamond$  Click <Apply>, Card Reader would be entered the revoking status.
- ♦ Use card to touch card reader induction area, and you might hear the card reader confirmed indication tone. Repeat step can to delete more cards.
- $\diamond$  In web page <EGS Setting  $\rightarrow$ Features  $\rightarrow$ Card Reader Working Mode >option, select <Normal>.

Card Reader Working Mode	Normal	1		
Talk Duration	Normal	0) Second(s)		
	Card Issuing	0) Second(s)		
Local password	Card Revoking			

 $\diamond$  Click <Apply>, Card Reader would be back to the Normal status.

- Method 2: used to batch add cards for intermediates.
- ♦ Use < Revocation admin card> to touch card reader induction area, and it would be entered revoking card status.
- ♦ Use the cards you want to delete from system, to touch card reader induction area, and you might hear the card reader confirmed indication tone. Repeat step 2 to delete cards.
- Use <Revocation admin card> to touch card reader induction area, and it would be back to card read only status.
- Method 3: use to bulk delete or partially delete card records
- $\diamond$  In web page<EGS Cards  $\rightarrow$  Door Card Table>select the card ID and then click <Delete>.

Note: If you click <Delete All>, system will delete all the ID card records.

Access Table >>

											Click here to Save Access Table			
Total: 2		Pre	v Page: 1	1 Vext					0		Dele	ete Dele	ete All	
	Index	Name	ID	Departn	nent Position	Location	Number	Fwd Number	Access Code	Double Auth	Profile	Туре	Issuing Date	Card State
•	1	joe	0000127423							Disable	None	Guest	2017/06/29 17:31:23	Enable
	2	zhangsan	0123031310							Disable	None	Guest	2017/06/29 17:30:58	Enable