

Intercom Quick Installation Guide









Step One: Connect to the network

Connect the end of network cable to the device WAN port, another end is connected to the LAN port of the router, then the hardware connection is completed. Normally, you should set your network to DHCP mode.



Mobile SIP Phone software

Users can call the same group of people through the VOIP phone, PC or mobile phone SIP phone software, and realizes remote control to the device(such as a door lock, Alarm lamp etc.)

Step Two: Get the device IP Address:

Methods:

- 1. Use the default IP scanner tool to get it: iDoorPhoneNetworkScanner
- 1) Install the scanner tool: iDoorPhoneNetworkScanner;
- 2) Ensure the working computer (installing IP scanner tool, exe.) is in the same local network with the corresponding device;
- 3) Run the tool (iDoorPhoneNetworkScanner.exe), to search the IP address of corresponding device within the network.

13	iDoorPhone Netw	ork Scanner(V 1.)	D)			×
#	IP Address	Serial Number	MAC Address	SW Version	Description	
1	172.18.2.81	IP intercom	Oc:38:3e:12:c4:b8	2.3.678.356	IP intercom	
						<u>R</u> efresh

Method 2: Long Press "#"key for 3 seconds, the intercom will report the IP numbers by itself.

Step Three: Log in the WEB admin interface of the device

Input IP address (e.g.: <u>http://192.168.1.149</u>) the Web browser, the default user name: admin, password: admin.

User:	1
Password:	
Language:	English 💌

Step Four: Modify the device description

	AUDIO	FEATURE	DIAL PLAN	CONTACT REM		WEB DIAL	MCAST
> BASIC	Auto Handdowr Enable Auto Re	n Time 3	second(s)	Enable Call Comple	ition		
> NETWORK	Auto Redial Inte	erval (s)	(1~180)second	Enable Silent Mode		_	
	Auto Redial Tim Auto Headset	es 10	(1~100)	Hide DTMF Ring From Headset	Disabled	*	
› VOIP	Enable Intercor	n 🔽		Enable Intercom Mu	ute		
	Enable Intercor	n Tone 🔽		Enable Intercom Ba	arge 🗹		
INTERCOM	P2P IP Prefix Turn Off Power	Light 🔽		Busy Return Code	480(Tem)	porarily Not Availa Here)	ble) 💙
> SAFEGUARDING	Emergency Call	Number 110		Reject Return Code	e 603(Decli	ne)	
	Enable Passwo	rd Dial		Active URI Limit IP			
FUNCTION KEY	Password Dial I Password Leng	th 0	(0~31)	Push XML Server	1 Tone		
> MAINTENANCE	Enable Multi Lin	ie 🔽		IP Description	IP interco	om	1
	Enable Auto An	swer 🔽		Auto Answer Timeo	out 0	second(s)	
> SECURITY	Enable Speed I Handdown	Dial Enable	v	Status Led Reuse N	Mode Disable		
	Dial Number Vo	ice Play Disable	~	Time of Dial Switch	16	(5-50)s	
> LOGOUT				Apply			

Step Five: Add SIP account

	SIP IAX2	STUN	DIAL PEER	
> BASIC				
> NETWORK	SIP Line SIP 1	~		
> VOIP	Basic Settings >>			
	Status	Unapplied	Domain Realm	
> INTERCOM	Server Address	172.18.1.212	Proxy Server Address	
	Server Port	5060	Proxy Server Port	
> SAFEGUARDING	Authentication User	607	Proxy User	
	Authentication Password		Proxy Password	
> FUNCTION KEY	SIP User	607	Backup Proxy Server Address	
	Display Name	607	Backup Proxy Server Port	5060
• MAINTENANCE	Enable Registration		Server Name	
	Codecs Settings >>			
> SECURITY				
	Advanced SIP Settings >>			
> LOGOUT			Apply	

Step Six: DSS key Configuration method

> BASIC							
> NETWORK	Screen Configurati	on					
› VOIP	Contrast 5 (1~9) Enable Backlight V Apply						
> INTERCOM	Function Key Settin	igs					
	Key	Туре	Number 1	Number 2	Lin	e Su	ubtype
> SAFEGUARDING	DSS Key 1	Key Event 💌			SIP1	None	~
	DSS Key 2	Key Event 💌			SIP1	None	~
> FUNCTION KEY	DSS Key 3	Line 💌			SIP1	Speed Dia	i 💉
	DSS Key 4	Line 💌			SIP2	Speed Dia	
• MAINTENANCE			An	vla			
> SECURITY							
· LOGOUT							

Intercom software can support up to four DSS key functions

1) The Subtype configuration of Hot key

DSS key type	Number	Line	Subtype	usage	
Hot key	Fill the called party's SIP account or address	The SIP account corresponding	Speed Dial	In Speed dial mode, with Handdown Can can define whether this call is allowed to be hang up by re-press the speed dial	
		lines	Intercom	In Intercom mode, if the caller's IP phone support intercom feature, can realize auto answer	

Each DSS key can be configured two numbers, when the first number is busy or no answer within the set time, the call will be forwarded to the second number automatically. The Switching time of the setting: WEB→Intercom→Feature

Time of Dial Switch

16 (5-50)s

2) The Subtype configuration of key Event Function Key Settings

Key	Туре		Number 1	Number 2	Lin	e	Subtype	2
DSS Key 1	Hot Key	~	8201		SIP1	~	Speed Dial	~
DSS Key 2	Key Event	~			SIP1	¥.	None	~
DSS Key 3	Line	~			SIP1	*	None Dial	
DSS Key 4	Line	*			SIP2	*	Release	
							Handfree	

Voice Intercom	Configuration
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DSS key type	Subtype	usage
	None	No Answer
	Dial	Dial function
key Event	Release	End calls
	ОК	Identify key
	Hand free	The hand-free key(with hook dial, hang up)

\blacktriangleright The two short circuits input configuration method

$\mathsf{WEB}\!\rightarrow\!\mathsf{Safeguarding}$, As shown in the figure below

The input port Settings

> NETWORK	Input Settings			
> VOIP	✓ Input 1: Trigger Mode	Low Level Trigger(Close Trigger)	☐ Input 2 :	Low Level Trigger(Close Trigger)
> INTERCOM	Response Mode Output Settings	☑ Remote Response	Response Mode	Remote Response
> SAFEGUARDING	Output 1:	High Level(NO:closed) 💙	Output Duration	5 (1~600)s
> FUNCTION KEY	Output Trigger Mod	le 🗹 Input 1 Trigger	🗌 Input 2 Trigger	

Function		Description		
	Low Level Trigger(Close Trigger)	Double short circuit detection port(If it is single port, is the low level)Detection to trigger when closed		
	High Level Trigger(Disconnect Trigger)	Double short circuit detection port (If it is single port, is the high level) Detection to trigger when disconnect		
Trigger mode	Remote Response	When meet the input port to trigger condition, to the server sends the alarm information correspondence. [note] Input port1 trigger, to send command format: The trigger device the IP; Port=Input1 Input port2 trigger, to send command format: The trigger device the IP; Port=Input2		

> The two short circuits output configuration method

> BASIC	Output Settings			
	Output 1:			
> NETWORK	Output Level	High Level(NO:closed) 💌	Output Duration	5 (1~600)s
	Output Trigger Mode	🗹 Input 1 Trigger	Input 2 Trigger	
> VOIP		Remote DTMF Trigger	123	Output Last By Duration 💌
		Remote SMS Trigger	ALERT=OUT1_SOS	
> INTERCOM		Call State Trigger	Talking 💌	
		Emergency Key Trigger		
> SAFEGUARDING	Output 2			
	Output Level	High Level(NO:closed) 💙	Output Duration	5 (1~600)s
FUNCTION KEY	Output Trigger Mode	Input 1 Trigger	Input 2 Trigger	
		Remote DTMF Trigger	456	Output Last By Duration V
> MAINTENANCE		Remote SMS Trigger	ALERT=OUT2_SOS	
		Call State Trigger	Talking 💙	
> SECURITY		Emergency Key Trigger		

Function			Description		
	Low Level(NO:	always on)	When meet the trigger condition, trigger the NO port disconnected.		
Output level	High Level(NO:	always off)	When meet the trigger condition, trigger the NO port close.		
Output Duration	1~600S		Define the output Duration change of output port.		
	Input port1 trig	gger	When the input port1 meet to trigger condition, the output port1 will trigger(The Port level time change, By < Output Duration> control)		
	Input port2 trig	gger	When the input port2 meet to trigger condition, the output port2 will trigger(The Port level time change, By < Output Duration> control)		
_	Remote DTMFtrigger	By duration	Received the terminal equipment to send the DTMF password, if correct, which triggers the corresponding output port (The Port level time change, By < Output Duration> control)		
Output trigger		By Calling State	During the call, receive the terminal equipment to send the DTMF password, if correct, which triggers the corresponding output port (The Port level time change, (By call state control, after the end of the call, port to return the default state)		
mode	Remote SMS trigger		In the remote device or server to send instructions to ALERT=[instructions], if correct, which triggers the corresponding output port		
	Call state trigg	er	The port output continuous time synchronization and trigger state changes, including the trigger conditions: 1,call; 2,call and singing; 3,singing; three models. (for example: the call trigger output port, will be in conversation state continued to output the corresponding level)		
	Emergency key trigger		When the emergency call button to trigger the equipment shell, which triggers the corresponding output port(after the end of the call, port to return the default state)		

> The tamper detection configuration method

Tamper	Alarm	Settings	
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✓ Tamper Alarm	Alarm command Reset command Tamper_Alarm Tamper_Reset					
Function	Describe					
Tamper Alarm	When the selection is enabled, the tamper detection enabled					
Alarm command	command When detected someone tampering the equipment, will be sent alarm to the corresponding server					
Reset command	When the equipment receives the command of reset from server, the equipment will stop alarm					
Reset	Directly stop the alarm from equipment in the Webpage					

> The trigger ring type setting

Server & Trigger Ring Type Settings

Server Address	0.0.0	2	
Input 1 Trigger Ring	default 💌	Input 2 Trigger Ring	default 🛩
Remote DTMF Trigger Ring	Enable 💌	Remote SMS Trigger Ring	default 😪
Tamper Alarm Ring	default 🗸	Alarm Ring Duration	5 (1~600)s

Function	Description
Server Address	Configure remote response server address(including remote response server address
	and tamper alarm server address)
Input 1 trigger ring	When the input port 1 triggering condition is satisfied, the corresponding ring tone or
input i trigger ring	alarm
Input 2 triggor ring	When the input port 2 triggering condition is satisfied, the corresponding ring tone or
	alarm
Remote DTMF trigger	When received the remote DTME command whether to output the ringtone
ring	when received the remote Drive command, whether to output the ringtone
Remote SMS trigger	When receiving the remote SMC instructions, whether to output the ringtone
ring	when receiving the remote sivis instructions, whether to output the ringtone
Tompor clorm ring	When the detected someone tampering the equipment, plays the corresponding
ramper alarm ring	ringtone or alarm
Alarm duration	duration of alarm ring(not including tamper alarm)

Notice: You can access to webpage to change the ringtone: WEB \rightarrow Maintenance \rightarrow Update File format: wav, single channel 8Khz sampling.

The file name, ring1: 1.wav(the ring2 replacement, file name: 2.wav)

	AUTO PROVISION	SYSLOG	CONFIG	UPDATE	ACCESS	REBOOT
> BASIC						
> NETWORK	Web Update					
> VOIP	Select I	File:	Brow	(*.z,*.txt,*.xm	l,*.au,*.vcf,*.csv,* <mark>.</mark>	wav) Update
› INTERCOM	TFTP/FTP Update Server Address					
> SAFEGUARDING	User Password		admin			Apply
FUNCTION KEY	File Name Type Protocol		Application Update	2		
> MAINTENANCE						
> SECURITY	upuate Logo File		Select File:		Browse	pdate
> LOGOUT	Delete Logo File					
			Select File:	v (Delete	

- > The broadcast terminal configuration notice
- 1) How to avoid an incoherency sound when the broadcast playing?

When interrupt to use as broadcast, the speak 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.

Auto Headset		Ring From Headset		
Enable Intercom		Enable Intercom Mute		
Enable Intercom Tone		Enable Intercom Barge		
P2P IP Prefix		DND Return Code	480(Temporarily Not Available)	~
Turn Off Power Light		Busy Return Code	486(Busy Here)	~
Emergency Call Number	110	Reject Return Code	603(Decline)	~
Enable Password Dial		Active URI Limit IP		
Password Dial Prefix		Push XML Server		
Password Length	0 (0~31)	Enable Call Waiting Tone		
Enable Multi Line		IP Description	IP intercom	
Enable Auto Answer		Auto Answer Timeout	0 second(s)	
Enable Speed Dial Handdown	Enable 💌	Status Led Reuse Mode	Disable 💌	
Dial Number Voice Play	Disable 💌	Time of Dial Switch	16 (5-50)s	
		Apply		

2) 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.

First Codec	G.711A 💌	Second Codec	G.711U 💟
Third Codec	G.729AB 💌	Fourth Codec	G.722 💉
Fifth Codec	None 💌	Sixth Codec	None 💉
Onhook Time	200 millisecond(s)	Default Ring Type	Туре 1 💌
G.729AB Payload Length	20ms 💌	Tone Standard	China 💉
G.722 Timestamps	160/20ms ⊻	G.723.1 Bit Rate	6.3kb/s 💉
Enable VAD		DTMF Payload Type	101 (96~127

The volume adjustment method

Method one: To adjust the volume of speaker and microphone by webpage.

Click "apply" to take effect (even in the call status), and it will save automatically.

	AUDIO	RE DIAL PLAN			MCAST
> BASIC					
> NETWORK	Audio Settings				
› VOIP	First Codec Third Codec	G.711A 💌 G.729AB 💌	Second Codec Fourth Codec	G.711U V G.722 V	
> INTERCOM	Fifth Codec Onhook Time	None v	Sixth Codec Default Ring Type Topo Standard	None V Type 1 V	
> SAFEGUARDING	G.722 Timestamps Enable VAD	160/20ms 💙	G.723.1 Bit Rate DTMF Payload Type	6.3kb/s V 101 (96~127)	
• FUNCTION KEY	MIC gai	in of software			
> MAINTENANCE	Volume Settings Handset/Handsfree Input	Volume 5	(1~9) Handset Output V	'olume <u>5</u> (1~9))
> SECURITY	Handsfree Output Volume Speaker gai	in of software	(1~9) Ring Volume	5 (0~9	9)
> LOGOUT	Codec Gain Settings		Speak	er hardware gain	_
	Handsfree Hardware Mic G	Sain 9 (1~11)	Handsfree Hardware Speaker	phone Gain 5 (:	1~8)

Method two: to adjust the volume by the remote command

Remote adjustment by active URL commands to complete the speaker and microphone gain.

> The speed Dial key configuration method

	AUDIO FEAT	URE DIAL PLAN
	Turn Off Power Light	
BASIC	Emergency Call Number	110
	Enable Password Dial	
> NETWORK	Password Dial Prefix	
	Password Length	0 (0~31)
> VOTP	Enable Multi Line	
	Enable Auto Answer	
> INTERCOM	Enable Speed Dial Handdown	Enable 💙
	Dial Number Voice Play	Disable 💌

Enable the<Speed Dial Hand down> and set DSS key as speed dial, whether allow DSS key to hang up the call (SIP call or P2P call)

The incoming call settings

By default, all calls are automatically answered, including SIP or P2P.

	AUDIO	FEATURE	DIAL PLAN	CONTACT	REMOTE CON		WEB DIAL	MCAST
 BASIC NETWORK 	Turn Off Powe Emergency Ca Enable Passw Password Dia	er Light In Light In Li		Busy Return (Reject Return Active URI Lin Push XML Ser	Code Code nit IP ver	486(Bus	y Here) line)	
› VOIP	Password Ler Enable Multi L Enable Auto A	ine 🛛 🗹 Inswer 🗹	(0~31)	Enable Call W IP Description Auto Answer	/aiting Tone n Timeout	IP interc	om second(s)]
> INTERCOM	Enable Speed Handdown Dial Number V	Dial Enab	le 🗸	Status Led Re Time of Dial S	euse Mode witch	Disable	✓ (5-50)s	
> SAFEGUARDING				Apply				

The definitions of the red box part are effective for all incoming calls. When disable the < Enable Auto Answer> function, SIP call or P2P calls will be ringing tone hint.

1) How to set SIP account incoming call

The incoming call will be automatically answered after a period of time, you only need to set <auto answer enable> and fill in the needed answer period of time, (If set to 0, the call automatically answer). Click< apply>.

	SIP	IAX2	STUN	DIAL PEER		
> BASIC						
> NETWORK	SIP Line	SIP 1	~			
> VOIP	Basic Settings >>					
> INTERCOM	Codecs Settings >>	•				
> SAFEGUARDING	Always Forward Always Forward Always Fwd Nu	d 🗌		Enable Hot	line []
› FUNCTION KEY	Busy Forward Busy Fwd Numl	ber		Warm Line Keep Alive	Wait Time 0 Type s	(0~9)second(s)
• MAINTENANCE	No Answer For NoAnswer Fwd No Ans. Fwd W	ward 🗌 Number 🧰 ait Time 60	(0~120)seco	Keep Alive BLF Server nd(s) Transfer Tii	Interval 6 meout 0	0 second(s)
> SECURITY	SIP Encryption			Enable Aut	o Answer	
> LOGOUT	SIP Encryption RTP Encryption RTP Encryption	Key		Auto Answ Enable Ses	er Timeout 6 ssion Timer 6	0 second(s)
				Session Re	fresher	JAS 💌

2) How to set the P2P(IP to IP) incoming call

When incoming call need to be auto answered after a period of time, enable the <auto answer enable> and fill in the needed auto answer time, (If set to 0, the call will answer automatically). Click< apply>.

	AUDIO	ATURE DIAL PLAN	CONTACT REMOTE CO	INTACT WEB DIAL	MCAST
> BASIC	Turn Off Power Light Emergency Call Numbe Enable Password Dial	er 110	Busy Return Code Reject Return Code Active URI Limit IP	486(Busy Here) 603(Decline)	× ×
> NETWORK	Password Dial Prefix Password Length Enable Multi Line	0 (0~31)	Push XML Server Enable Call Waiting Tone	IR intercom	
> VOIP	Enable Auto Answer		Auto Answer Timeout	0 second(s)	
> INTERCOM	Enable Speed Dial Handdown Dial Number Voice Play	Enable 💌	Status Led Reuse Mode Time of Dial Switch	Disable 💙	
> SAFEGUARDING			Apply		

Intercom Configuration

The other function settings

	AUDIO	FEATURE DIAL PLAN		NTACT WEB DIAL	MCAST
> BASIC	Enable Intercom Enable Intercom To P2P IP Prefix	ne V	Enable Intercom Mute Enable Intercom Barge DND Return Code	☐ ✔ 480(Temporarily Not Available	e) 🗸
> NETWORK	Turn Off Power Ligh Emergency Call Nun	nt 🔽 nber 110	Busy Return Code Reject Return Code	486(Busy Here) 603(Decline)	~
> VOIP	Enable Password D Password Dial Prefi	ial 🗌	Active URI Limit IP Push XML Server		
> INTERCOM	Password Length Enable Multi Line	0 (0~31)	Enable Call Waiting Tone IP Description	✓ IP intercom	
> SAFEGUARDING	Enable Auto Answe Enable Speed Dial Handdown	r 🗸 Enable 🕑	Auto Answer Timeout Status Led Reuse Mode	0 second(s)	
> FUNCTION KEY	Dial Number Voice F	Play Disable 💌	Time of Dial Switch	16 (5-50)s	

1) Status Led reuse mode

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

2) Dialing tone prompt

Enable this function; it will have corresponding key tone of voice when operating the digital keyboard

3) Call switching time

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