



Intercom Quick Installation Guide



Introduction

Package Contents



i12 Intercom



Connector



Installation diagram



Quick Installation Guide



Installation Size Map



Screw and tool

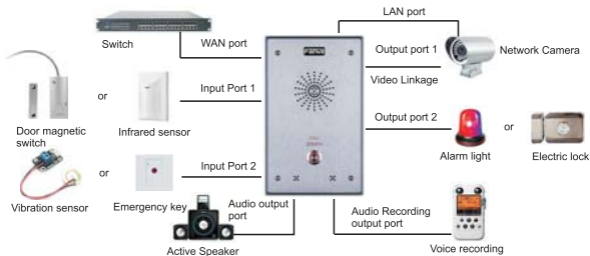


CD



Voice Intercom Configuration

IP intercom Topological Graph



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.



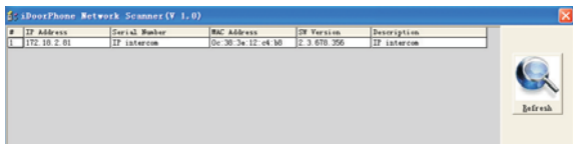
Users can call the same group of people through the VOIP phone, PC or mobile phone SIP phone software, and realizes remote control to the device (such as a door lock, Alarm lamp etc.)

Voice Intercom Configuration

Step Two: Get the device IP Address:

Methods 1:

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.



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.: http://192.168.1.149) the Web browser, the default user name: admin, password: admin.

User:

Password:

Language: English

Voice Intercom Configuration

Step Four: Modify the device description

The screenshot shows the 'INTERCOM' configuration page. The left sidebar has 'INTERCOM' selected. The main area contains the following settings:

FEATURE	VALUE
Auto Headset	<input checked="" type="checkbox"/>
Enable Intercom	<input checked="" type="checkbox"/>
Enable Intercom Tone	<input checked="" type="checkbox"/>
FQP IP Profile	
Turn Off Power Light	<input checked="" type="checkbox"/>
Emergency Call Number	(11)
Enable Password Dial	<input type="checkbox"/>
Password Dial Prefix	
Password Length	0-31 (0-31)
Enable Multi Line	<input checked="" type="checkbox"/>
Enable Auto Answer	<input checked="" type="checkbox"/>
Enable Speed Dial Handdown	Enable
Dial Number Voice Play	Disable
Ring from Headset	<input type="checkbox"/>
Enable Intercom Mute	<input checked="" type="checkbox"/>
Enable Intercom Barge	<input checked="" type="checkbox"/>
DND Return Code	480(Temporarily Not Available)
Busy Return Code	480(Busy Here)
Reject Return Code	403(Decline)
Active IMS List IP	
Push IMS Server	
Enable Call Waiting Tone	<input checked="" type="checkbox"/>
IF Description	IF Intercom
Auto Answer Timeout	0 (seconds)
Status Led Reuse Mode	Disable
Time of Dial Switch	25 (5 Side)

An 'Apply' button is located at the bottom right of the configuration area.

Step Five: Add SIP account

The screenshot shows the 'SIP' configuration page. The left sidebar has 'SIP' selected. The main area shows the configuration for 'SIP Line' (SIP 1).

SIP Line: SIP 1

Basic Settings >>>

Status	Registered	Domain Name	test.com
Server Address	172.18.1.212	Proxy Server Address	
Server Port	5060	Proxy Server Port	
Authentication User	001	Proxy User	
Authentication Password	*****	Proxy Password	
SIP User	001	Backup Proxy Server Address	
Display Name	001	Backup Proxy Server Port	5060
Enable Registration	<input checked="" type="checkbox"/>	Server Name	

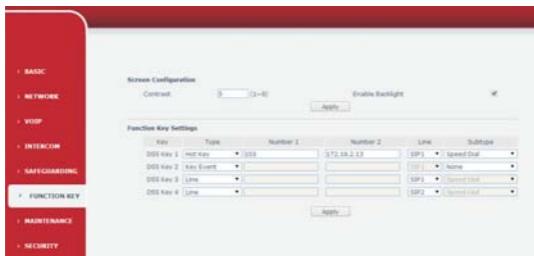
Codecs Settings >>>

Advanced SIP Settings >>>

An 'Apply' button is located at the bottom right of the configuration area.

Voice Intercom Configuration

Step Six: DSS key Configuration method



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 lines	Speed Dial	In Speed dial mode, with <small>Enable Speed Dial Handdown</small> and <small>Trans. W</small> can define whether this call is allowed to be hang up by re-press the speed dial
			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** (5-50)s

2)The Subtype configuration of key Event



Voice Intercom Configuration

DSS key type	Subtype	Usage
Key Event	None	No Answer
	Dial	Dial function
	Release	End calls
	OK	Identify key
	Handfree	The hand-free key(with hook dial, hang up)

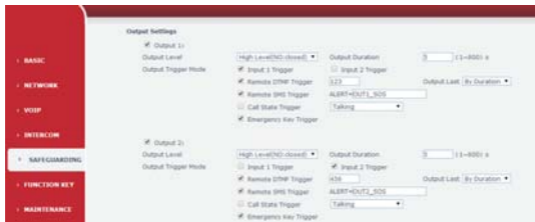
> The two short circuits input configuration method
 WEB→Safeguarding, As shown in the figure below
 The input port Settings



Function		Description
Trigger mode	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
	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

Voice Intercom Configuration

>The two short circuits output configuration method



Function		Description	
Output level	Low Level(NO: always on)	When meet the trigger condition, trigger the NO port disconnected.	
	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.	
Output trigger mode	Input port1 trigger		
	Input port2 trigger		
	Remote DTMF trigger	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)
		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)
	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 trigger		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)

Voice Intercom Configuration

> The tamper detection configuration method

Function	Describe
Tamper Alarm	When the selection is enabled, the tamper detection enabled
Alarm 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

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 alarm
Input 2 trigger ring	When the input port 2 triggering condition is satisfied, the corresponding ring tone or alarm
Remote DTMF trigger ring	When received the remote DTMF command, whether to output the ringtone
Remote SMS trigger ring	When receiving the remote SMS instructions, whether to output the ringtone
Tamper alarm ring	When the detected someone tampering the equipment, plays the corresponding ringtone or alarm
Alarm duration	duration of alarm ring(not including tamper alarm)

Voice Intercom Configuration

Notice: You can access to webpage to change the ringtone: WEB →Maintenance →Update

File format: wav, single channel 8Khz sampling.

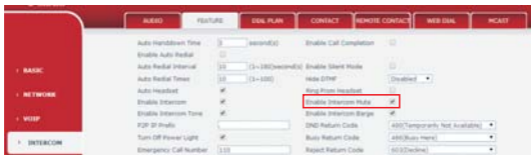
The file name, ring1: 1.wav(the ring2 replacement, file name: 2.wav)



>The broadcast terminal configuration notice

1)How to avoid an incoherency sound when the broadcast playing?

When the terminal 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.



Voice Intercom Configuration

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.



>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.



Method two: to adjust the volume by the remote command

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

Voice Intercom Configuration

>The speed Dial key configuration method

AUDIO	FEATURE	DIAL PLAN
	Turn Off Power Light	<input checked="" type="checkbox"/>
	Emergency Call Number	110
	Enable Password Dial	<input type="checkbox"/>
	Password Dial Prefix	
	Password Length	0 (0~31)
	Enable Multi Line	<input checked="" type="checkbox"/>
	Enable Auto Answer	<input checked="" type="checkbox"/>
	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 CONTACT	WEB DIAL	MCADT
	Turn Off Power Light	<input checked="" type="checkbox"/>				
	Emergency Call Number	110				
	Enable Password Dial	<input type="checkbox"/>				
	Password Dial Prefix					
	Password Length	0 (0~31)				
	Enable Multi Line	<input checked="" type="checkbox"/>				
	Enable Auto Answer	<input checked="" type="checkbox"/>				
	Auto Answer Timeout	0 second(s)				
	Enable Speed Dial Handdown	Enable				
	Dial Number Voice Play	Disable				

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.

Voice Intercom Configuration

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>.

The screenshot shows the 'Advanced SIP Settings >>' configuration page. The left sidebar has 'VOIP' selected. The main area is divided into four tabs: SIP, IAX2, STUN, and DIAL PEER. The 'SIP' tab is active. The 'Enable Auto Answer' checkbox is checked and highlighted with a red box. The 'Auto Answer Timeout' is set to '30 second(s)'. Other settings include 'Access Forward', 'Busy Forward', 'No Answer Forward', 'No Answer Forward', 'No Ans. Fwd Wait Time', 'SIP Encryption', 'SIP Encryption Key', 'RTP Encryption', 'RTP Encryption Key', 'Subscribe For MWI', 'MWI Number', 'Subscribe Period', 'Enable Service Code', 'DND On Code', 'Enable Hotline', 'Hotline Number', 'Warm Line Wait Time', 'Keep Alive Type', 'Keep Alive Interval', 'SIP Server', 'Transfer Timeout', 'Session Timeout', 'Session Refresh', 'Conference Type', 'Conference Number', and 'Registration Expires'.

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>.

The screenshot shows the 'Intercom' configuration page. The left sidebar has 'INTERCOM' selected. The main area is divided into seven tabs: HERO, FEATURE, DIAL PLAN, CONTACT, REMOVE CONTACT, WEB DIAL, and HCAST. The 'FEATURE' tab is active. The 'Enable Auto Answer' checkbox is checked and highlighted with a red box. The 'Auto Answer Timeout' is set to '0 second(s)'. Other settings include 'Auto Headset', 'Enable Intercom', 'Enable Intercom Tone', 'P2P IP Profile', 'Turn Off Power Light', 'Emergency Call Number', 'Enable Password Dial', 'Password Dial Prefix', 'Password Length', 'Enable Multi Line', 'Enable Speed Dial Handdown', 'Dial Number Voice Play', 'Ring From Headset', 'Enable Intercom Mute', 'Enable Intercom Barge', 'DND Return Code', 'Busy Return Code', 'Reject Return Code', 'Active URL Limit SP', 'Push IMR Server', 'Enable Call Waiting Tone', 'SP Description', 'Status Led Reuse Mode', and 'Time of Dial Switch'. An 'Apply' button is at the bottom.

Intercom Configuration

>The other function settings

ALSO	FEATURE	DIAL PLAN	CONTACT	REMOTE CONTACT	WEB DIAL	MCALL
	Auto Headset	<input checked="" type="checkbox"/>	Ring From Headset	<input type="checkbox"/>		
	Enable Intercom	<input checked="" type="checkbox"/>	Enable Intercom Mute	<input checked="" type="checkbox"/>		
	Enable Intercom Tone	<input checked="" type="checkbox"/>	Enable Intercom Barge	<input checked="" type="checkbox"/>		
	POP SP Prefix	<input type="text"/>	DND Return Code	<input type="text" value="480(Temporarily Not Available)"/>		
	Turn Off Power Light	<input checked="" type="checkbox"/>	Busy Return Code	<input type="text" value="480(Busy Here)"/>		
	Emergency Call Number	<input type="text" value="112"/>	Reject Return Code	<input type="text" value="603(Decline)"/>		
	Enable Password Dial	<input type="checkbox"/>	Active SLD Limit SP	<input type="text"/>		
	Password Dial Prefix	<input type="text"/>	Push IRL Server	<input type="text"/>		
	Password Length	<input type="text" value="0-31"/>	Enable Call Waiting Tone	<input checked="" type="checkbox"/>		
	Enable Multi-Line	<input checked="" type="checkbox"/>	SP Description	<input type="text" value="SP Intercom"/>		
	Enable Auto Answer	<input checked="" type="checkbox"/>	Auto Answer Timeout	<input type="text" value="seconds"/>		
	Enable Speed Dial	<input checked="" type="checkbox"/>	Status Led Reuse Mode	<input checked="" type="checkbox"/>		
	Dual Number Voice Play	<input checked="" type="checkbox"/>	Time of Dial Switch	<input type="text" value="18-18:00"/>		

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.

Fanvil



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