ESCENE

Smart Security IP Intercom

IS710v2 User Manual

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Declaration

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About this manual

Thank you for choosing Smart Security IP Intercom IS710v2 .This IP Intercom is specially designed for the user under the public environment with fashionable appearance and complete functions. This manual aims to help you quickly use Smart Security IP Intercom IS710v2 .Before use ,please read the packing list and safety notes section of this manual ,communicate with the system administrator to confirm if the current network environment can meet the requirements of configuring the Intercom. If this is your first time to use Smart Security IP Intercom IS710v2 ,we recommend that you should read the quick installation guide and product technical manual. The document can be downloaded from the following website: http://www.escene.cn/en.

Summary

1. Getting Started

1.1 Outline

ESCENE security intercom series IP Intercom IS710(V2) is well developed according to customers requirements based on VOIP Phone. It has Fashion classic aluminum wire drawing surface shell with the design of waterproof, dustproof, anti-dismantle. The traits of strong compatibility and supporting extra access swiping card device make it perfectly to be used in bank, subway, power plant, mine, prison, steel companies and so on. It is the best choice and highly cost effective for customers' projects requirements in this industry.

1.2 Product Features

- One key to dial emergency call for help, realize the bi-directional full-duplex voice intercom.
- Panel adopts advanced wire drawing aluminum alloy material, high strength damage resistant button, strong and durable.
- Support POE power supply and the external power supply.
- Embedded wall or mounted in the wall, to avoid cable leakage users, to ensure that the internal network information security, provide and remote configuration.
- Built-in speaker and high sensitive microphone, support hand-free calls and receive emergency broadcast
- Adopted seal design, waterproof and dustproof level is IP65.
- Support extra access security device, multi-functions provide more perfect service to industry customers.

1.3 Technical Information

Intercom features
WEB support Multi-Language ;1 SIP account, Hotline;Call hold, Call waiting, Call forward;Call transfer (blind/busy/ask);Mute, DND;Auto-answer, 3-way conferencing;1 DSS programmable key(Speed dial, Intercom etc.);Volume control;Direct IP call without SIP proxy;Default Ring tone 1 selection/import/delete;Custom Warning Ring tone 2 selection/import/delete;Time setting(SNTP/SIP Server/Manual);Support SIP main/standby server;
Network parameters

SIP v1 (RFC2543), v2 (RFC3261);DNS SRV (RFC3263);NAT Traversal: STUN mode;DTMF: In-Band, RFC2833, SIP Info, Auto;HTTP/HTTPS Web Management;IP Assignment: Static/DHCP/PPPoE;Network support Bridge mode; TFTP/DHCP/PPPoE client;DNS client, NAT/DHCP server;
Security
LLDP, VLAN QoS (802.1pq),VPN(L2TP);Transport Layer Security (TLS);Digest authentication using MD5/MD5-sess;Secure configuration file via AES encryption;Phone lock for personal privacy protection;Admin/User 2-level configuration mode;
Voice features
Wideband Codec: G.722;Narrowband codec: G.711µ/A, G.723.1;G.726, G.729a/b, iLBC;VAD, CNG, AEC, AGC;Full-duplex;
Physical properties
1 DSS programmable key(Speed dial, Intercom etc.);1 LED lights;1 light touch button(Remote factory value);1xRJ45 10/100M Ethernet ports;Power adapter: AC 100~240V input and;DC 12V/1A output;Power over Ethernet ,IEEE 802.3af,class 0;Net weight: 0.52KG, Gross weight: 0.65KG; Each motherboard port, check the picture illustration below "Mother Broad Interface".
Carton packaging
The whole Size：162*112*40mm
Product Certification
RoHS Compliant   CE   FC   ISO 9001
Platform Compatibility Test (non-certificate)
ZTE/Alcatel-Lucent/Asterisk/Broadsoft/Metaswitch/Yeastar/Avaya/3CX/Elastix/HUAWEI etc.
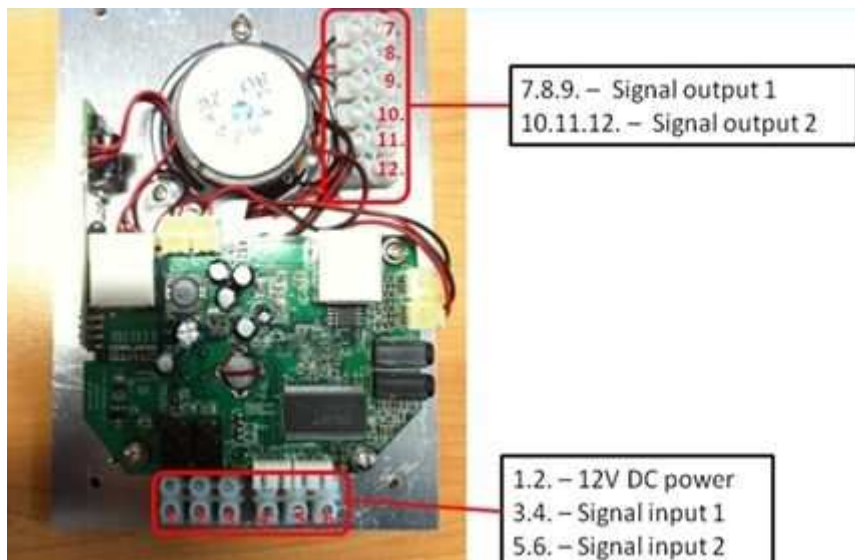
Mother Broad Interface

*This data is for information purposes only and is subject to change without notice.

2. Intercom Installation

Generally system administrator will connect your new IS710v2 IP Intercom to company LAN network. If not, please refer to below illustration.

Open IS710v2 packing box, according to the packing list, check the related attachment to make sure to no omitting. Packing list as follows.
- IS710v2 Intercom
- Quick operating guide
- 8*Screws
- 2*Rubbers

IS710v2 could be installed to internet according to the below steps.

2.1 Embedded

If the product is used for embedding, then the cutting of embedded need to be a little bigger than the installing hole of standard dimension 168*116*42mm .(42mm means the extra aluminum housing thickness.),as follows. Notice: the embedded value is up to the actual situation.
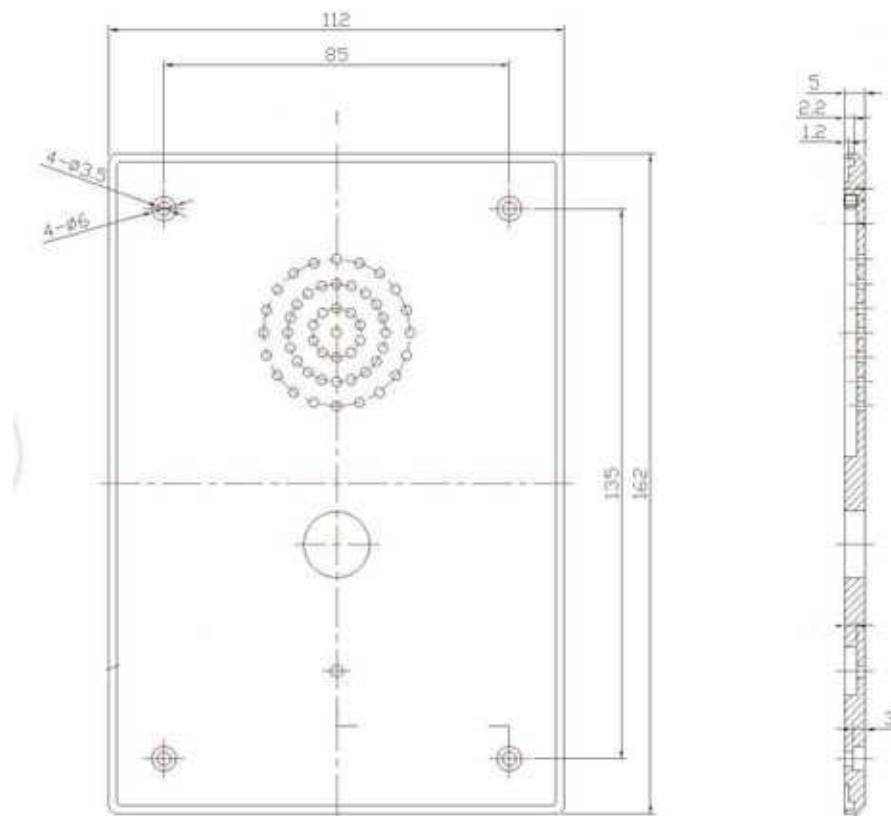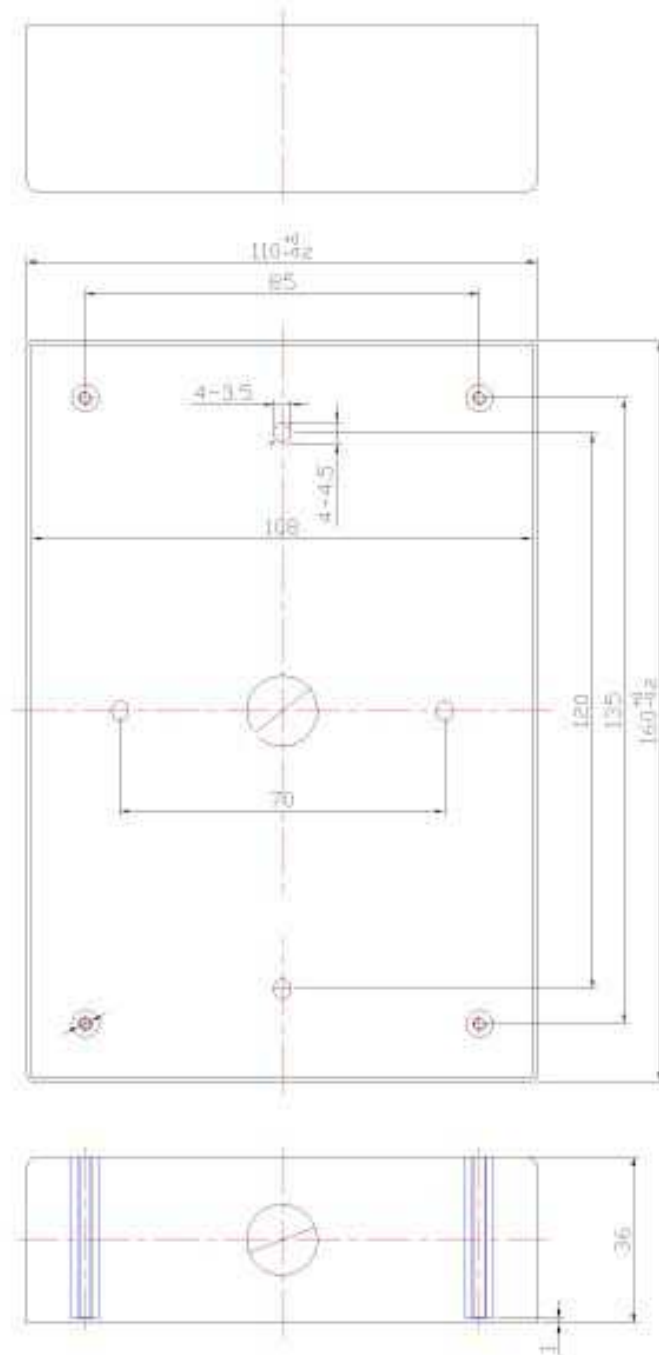
2.2 Equipment installation

1、Open the aluminum housing.

2、Put the IP intercom into it according to the cutting embedded specification. After that, fix four M3*12 screws on the wall with the screw driver.
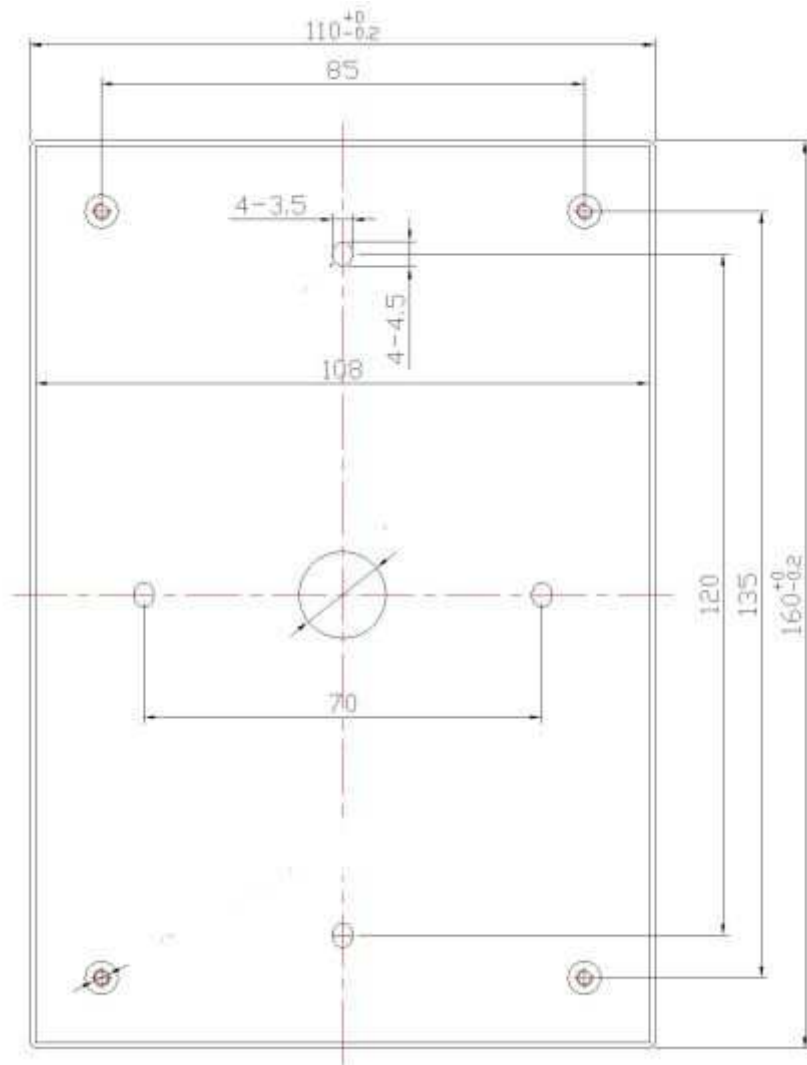
3 、 After installing inter housing, well-set the related wiring and replace the aluminum housing. Power on and start testing.
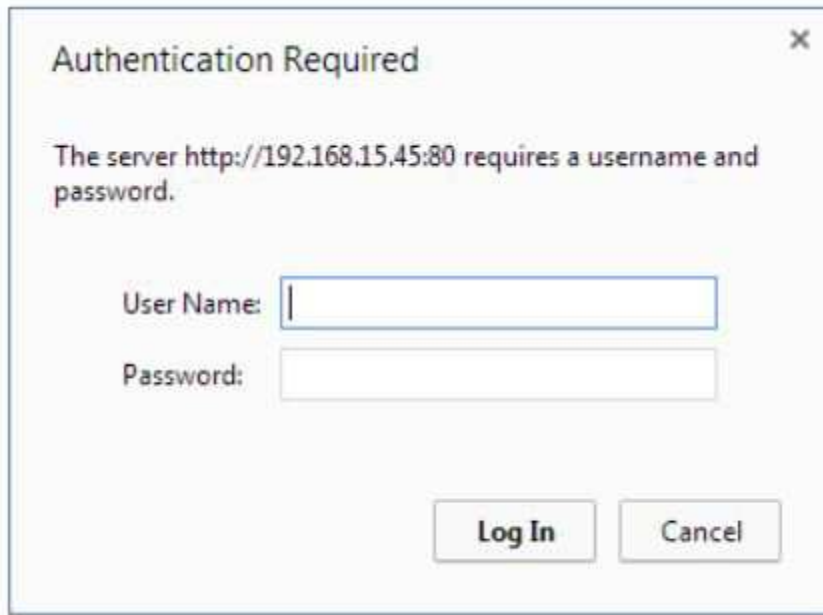
3. Configuration of IP intercom

You need to know the IP address of IP Intercom before starting setting. You could learn how to get IP address below. Default IP address is 192.168.1.153.in static status. If getting from DHCP, you need to search the related IP address by the third software scanning equipment MAC. (Getting IP by DHCP is not suggested.)
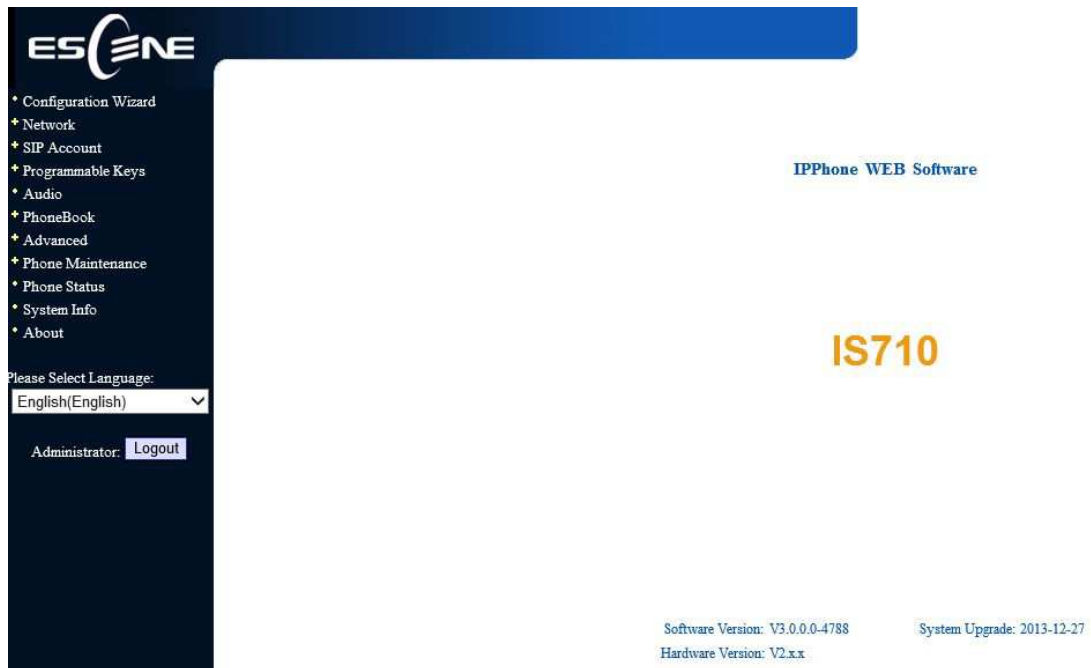
3.1 Remote WEB Management

Once input the IP address of intercom on the web browser and tap the "enter" on the keyboard. Then a login screen will pop up from the intercom equipment. You need to input user name and password. Both default user name and password of system is case letters

"root"

After the log-in，the administrate web page of the intercom will pop up.

The setting and parameter of each option will be described as follow.

3.2 Network

This option is used for the network setting, please notice that you could set the LAN and VPN.

3.2.1 LAN Setting

This option is used for setting speaker IP, as shown below.

3.3 SIP Account

ESCENE IP Intercom can be set up one SIP account. Account's user name, password and server address are mandatory. If all the information filled is valid and correct, then register will be launched from SIP server after submitting and saving.

Account1

SIP Settings

Enable: ☑

Account Mode: VOIP ▾

Display Name: [ ]

Username: [3002] *

Authenticate Name: [ ]

Password: [••••] *

Label: [ ]

SIP Server: [192.168.0.7]

Secondary server: [ ]

OutboundProxy Server: [ ]

Secondary OutboundProxy Server: [ ]

Polling Interval Time Of Registration: [32] s Default Value：32s，Range：20s~60s

NAT Traversal: Disable ▾

STUN Server: [ ]

BLA: ⦿ off ◯ on

BLA Number: [ ]

Call Method: ⦿ SIP ◯ TEL

Subscribe Period: [1800] Default: 1800s, Min: 120s

Register Expire Time: [3600] Default: 3600s, Min: 40s

DNS-SRV: ⦿ off ◯ on

SIP Transport: ⦿ UDP ◯ TCP ◯ TLS

Call

Amount Of Line Account Used: [2] (Default: 2)

Do Not Disturb: ⦿ off ◯ on

3.4 Programmable keys

This function is reserved for the future.

3.5 Voice

You can manage the speaker volume ranks and microphones which showed in the following table. Please note that in most cases, if you open the microphone and switch to level 7, then don't use speaker volume more than level 4, unless you can ensure that your coverage is small or noise reduction level is high.

Audio

Tone

Select Country: United States

Ring Volume(0~9): 3

Begin Time: 20 Hour -
8 Hour

Ring Volume in Night(0~9): 3

Output Volume (1~9)

Intput Volume(1~7)

Handset Volume: 5

Handset Mic Volume: 3

SpeakerPhone Volume: 5

SpeakerPhone Mic Volume: 3

Headset volume: 5

Headset Mic Volume: 3

Voice Codec

Payload Length: 20 ms

High Rate of G723.1: ☑

Jitter Buffer

Type: ⦿ Adaptive ◯ Fixed

Min Delay: 60

Max Delay: 500

Other

VAD: ☐

Echo Suppression Mode: ☐

SideTone: ☐

Ring

Ring Type: Ring1

Delete

Ring Type2: Ring1

Uploading Ring Tone

Browse...

Upload   Cancel

(Please upload a ring tone with G711A audio coding, Maximum 10 rings and the total sizes must less than 150k.)

Audio Codecs:
enableCode

Up
Down

G722
G711A
G711U
G729A
G723

<< >>

iLBC
G726_32

disableCode

Submit

3.6 Phone Book

This function is reserved for the future.

3.7 Advanced Setting

In advanced configuration, system parameters are the main points, other options, such as web dial-up, dialing rules, IP filtering strategy, ring tones, certificate management and global server, etc., most are reserved function which could be ignored.

3.7.1 Intercom Setting

System parameters can be configured IP Intercom's basic configuration, PSTN Settings (reserved), QoS, call related, VoIP call forward, time Settings, and others. The commonly used functions in the option below are mainly introduced. Other functions do not be arbitrarily changed.

3.7.1.1 Switch signal output

Switch signal output 1 ~ 2 which can be controlled by multiple variables, the monitoring server message control is define variable which can coordinate and adjust to be compatible with the special requirements of some particular platform.

3.7.1.2 Hot Line

Hotline function is the goal of emergency button on the panel paging, default to hotline immediately. Of course, it can be sent by different ways according to different environment.

3.7.1.3 Time Setting

IP Intercom's time access can be SNTP, manual setting and update at the SIP server below, PSTN is reserved options.

Set Time Mode: ○ SNTP ● SIP Server ○ PSTN ○ Manual

3.7.2 VLAN Setting

When IP Intercom's application environment involves the VLAN, the below operating will guide you how to use.

VLAN Setting

LAN Port
  Enable VLAN: ☐
  VID: [0] (0~4094)
  Priority: [0 ▾] (0~7)

PC Port
  Enable VLAN: ☐
  VID: [0] (0~4094)
  Priority: [0 ▾] (0~7)

Submit

3.7.3 VPN Setting

When IP Intercom's application environment involves the VPN, the below operating will guide you how to use.

VPN Setting

Enable VPN: ☐
VPN Type: [L2TP ▾]

L2TP
  VPN Server Addr: [   ]
  VPN User Name: [   ]
  VPN Password: [   ]

OPEN VPN
  Attention: The trusted certs dir is /mnt/sip/vpn/

  Upload VPN Config: [   ] Browse...
  upload

Submit

3.8 Maintenance

This part mainly introduces some maintenance method. According to the below, you can

reconfigure Intercom IP Phone or view Intercom IP Phone log to gain more information about maintenance.

3.8.1 Log

For most famous systems, log document will offer the record born by behavior change of Intercom IP Phone. Log document information contains the question you need to investigate. It can upload log document to the appointed Server as you need to gain information from it.

3.8.2 Password

If you need to change the default password of Intercom IP Phone, so you need to configure password information. Please note that password modification to ensure safety rather than distribute to anyone, unless they allows you to interact with the Intercom IP Phone.

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3.8.3 Factory reset

The following will direct you how to reset the factory default. Please note that factory reset will erase all original configuration information, so be cautious to use this function. IP address will recover to be default: 192.168.1.153.

Default Setting

When click this button this equipment will restore to the default status

Pay Attention: It will take effect on next reboot.

Reset to Factory Setting

3.8.4 Auto Provision

Intercom IP Phone's automatic update feature is that it automatically read related configuration files from the server, thus to replace manual update operations. The following will illustrate related operations, such as the server name or address, verify the user name and password (optional), inspection cycle, reboot detection, etc.

3.8.5 TR069 Upgrade

This function will cooperate with telecom IMS platform to use. Please follow below.

3.8.6 FTP Upgrade

The following will direct you when you use FTP to upgrade.

3.8.8 TFTP Upgrade

The following will direct you when you use TFTP to upgrade.

3.8.9 HTTP Upgrade

The following will direct you when you use HTTP to upgrade.

3.8.10 Reboot

The following will direct you if rebooting Intercom. Please note that do not reboot unless hooking or no reaction situations which is rare occurrence.

3.9 Intercom Status

The following will direct you information of system operation working time, account registration status and network setting

3.10 System Info

The following will direct you equipment name, software/hardware version No, kernel version No. and related server address.

3.11 Language

The following will direct you how you to change language with the intercom.

English(English) →

Chinese(Chinese)
English(English)
French(French)
Italian(Italian)
Polish(Polish)
Portuguesa(Portuguesa)
Portuguesa-Brasil(Brasil)
Russian(Russian)
Spanish(Spanish)
Turkish(Turkish)
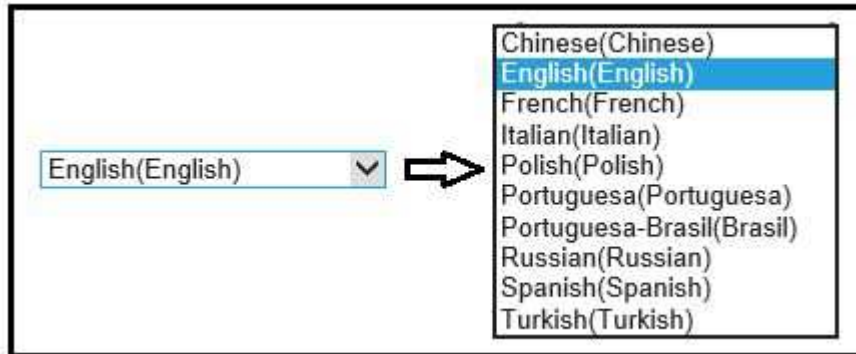
4. Brief pictures for application environment

The following pictures introduce the practical application of IP intercom. Take door security and fire protection for example. More compatibility application is subject to actual test.

4.1 Door security system application

以太网交换机
Ethernet Switch

DC电源
DC Power

紧急按钮
Emergency Button

电子门锁
Electronic Locks

有源音箱
Speaker

ESCENE Communication CO. LTD.
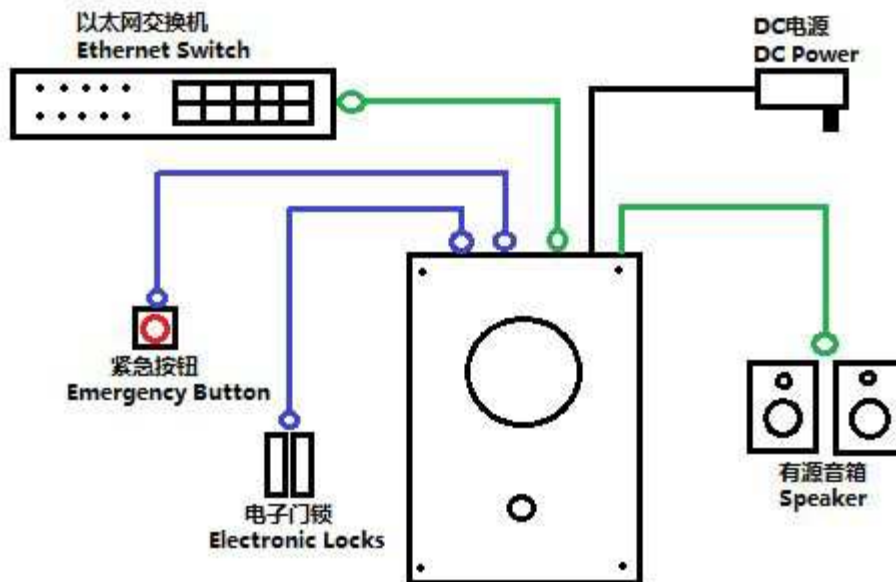
4.2 Fire protection system application