



Smart Security IP Intercom

IS710v2 User Manual

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1. Getting Started

1.1 Outline

The ESCENE IP Intercom - IS710(V2), has been developed to customers' needs. Its classic fascia design is waterproof, dustproof and vandal resistant. It is ideal for many applications where SIP connectivity is required.

1.2 Product Features

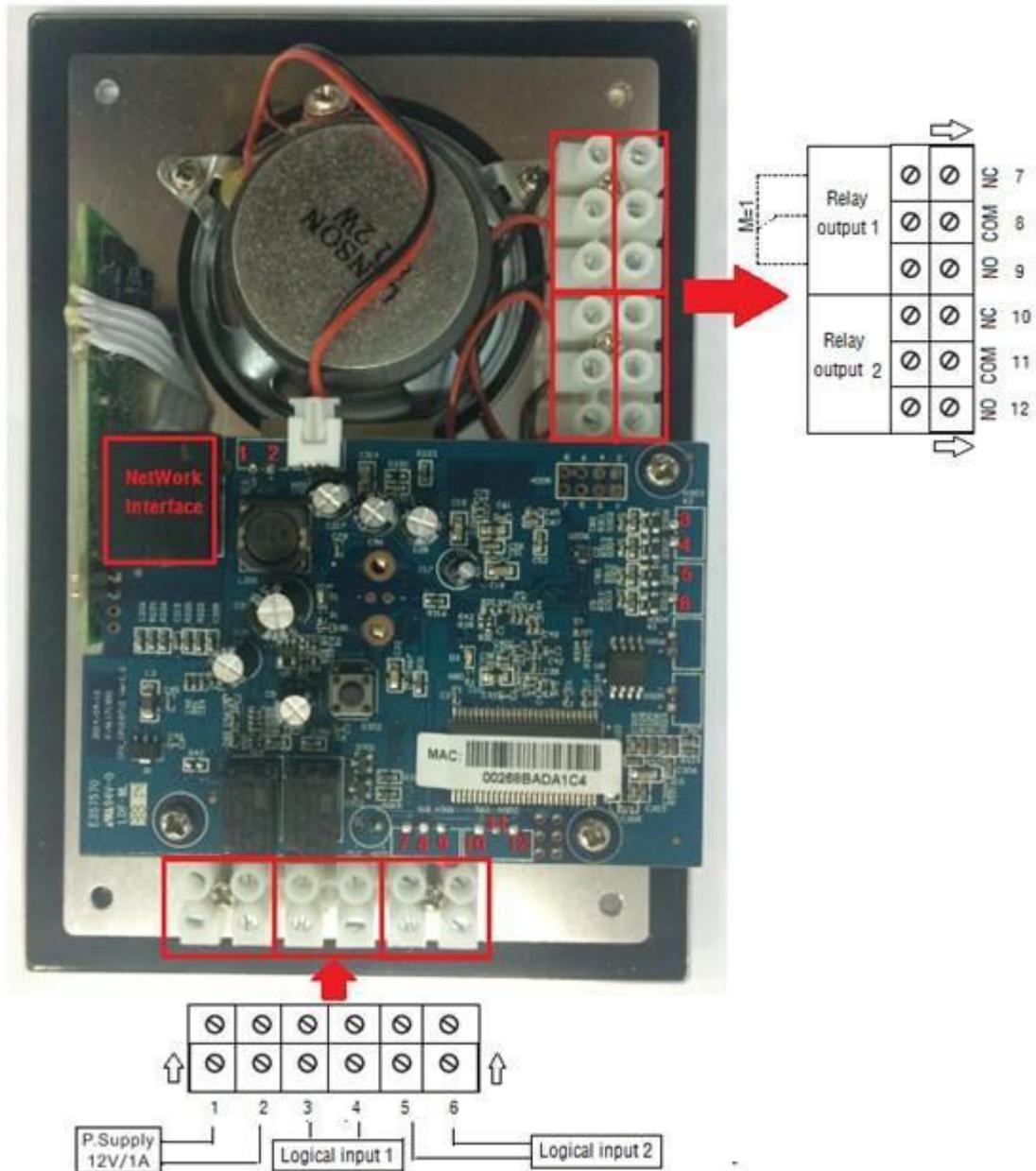
- One button calling with full-duplex voice intercom.
- Fascia is 5mm thick drawn aluminum for strength and durability.
- Supports POE and local 12v power supply.
- Flush mount or surface mount with the surface mount cabinet supplied as standard.
- Two relays for releasing 2 doors or activating 2 devices.
- Gasket seals provide waterproof and dustproof level to IP65.
- Two input sensors for monitoring or egress button use.



1.3 Technical Information

Intercom features
<ul style="list-style-type: none"> ● WEB support Multi-Language ● 1 SIP account ● Hotline, Call forward, DND, Auto-answer, Volume control ● Default Ring tone selection/import/delete, Custom Warning Ring tone selection/import/delete ● Time setting (SNTP/SIP Server/Manual) ● Support SIP main/standby server
Network parameters
<ul style="list-style-type: none"> ● SIP v1 (RFC2543), v2 (RFC3261), DNS SRV (RFC3263) ● NAT Traversal: STUN mode.

<ul style="list-style-type: none"> • DTMF: In-Band, RFC2833, SIP Info, Auto • HTTP/HTTPS Web Management • IP Assignment: Static/DHCP/PPPoE • Network support Bridge mode; TFTP/DHCP/PPPoE
<p>Security</p> <ul style="list-style-type: none"> • 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.
<p>Voice features</p> <ul style="list-style-type: none"> • Wideband Codec: G.722 • Narrowband codec: G.711μ/A, G.723.1;G.726, G.729a/b, iLBC; VAD, CNG, AEC,
<p>Physical properties</p> <ul style="list-style-type: none"> • 1 hotline programmable key (Speed dial, Intercom etc.); 1 light touch button • 1xRJ45 10/100M Ethernet ports; PoE, IEEE 802.3af, class 0. • Power adapter: AC 100~240V input DC 12V/1A output; • Net weight: 0.52KG, Gross weight: 0.65KG. <p>Each motherboard port, check the picture illustration below "Mother Board Interface".</p>
<p>Carton packaging</p> <p>The whole Size: 162*112*40mm</p>
<p>Product Certification</p> <p>     </p>
<p>Platform Compatibility Test (non-certificate)</p> <p>ZTE/Alcatel-Lucent/Asterisk/Broadsoft/Metaswitch/Yeastar/Avaya/3CX/Elastix/HUAWEI etc.</p>



Mother Board Interface

Relay connection description:

- NO means idle-disconnected contact(normally open)
- COM means a pin contact(middle)
- NC means an idle-connected contact(normally close)

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

2. Intercom Installation

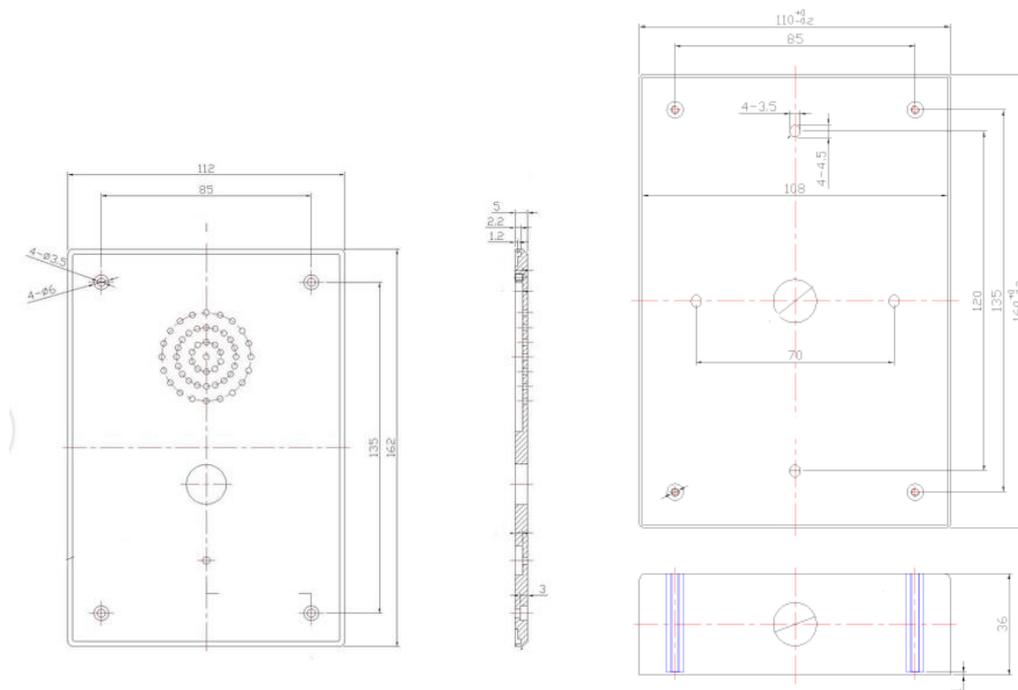
Generally, your system administrator will connect your new IS710v2 IP Intercom to company LAN network. If not, please refer to the following information.

Open IS710v2 packing box, according to the packing list, check the related attachment to make sure to no omitting. Packing list is as follows.

- IS710v2 Intercom
- Quick operating guide
- 4*Screws
- 4*Rubbers

2.1 Dimensions

The dimensions of IS710 housing and openings.



2.2 Flush Mount

If the product is used for flush mounting, then the cutting dimensions will be slightly smaller than the housing of the IP intercom. The cutting dimension is 120mm x 98mm x 45mm (length x width x depth). Please make 2 connectors floating and screw the IP

intercom on the wall at 4 edges. Please refer to following picture.



The front and rear view of flush mount installations are shown below.



Front view



Rear view

2.3 Surface Mount

IS710 can also be used for surface mount to provide rating of IP65. The internal and external installation of surface mount is shown below.



Internal view



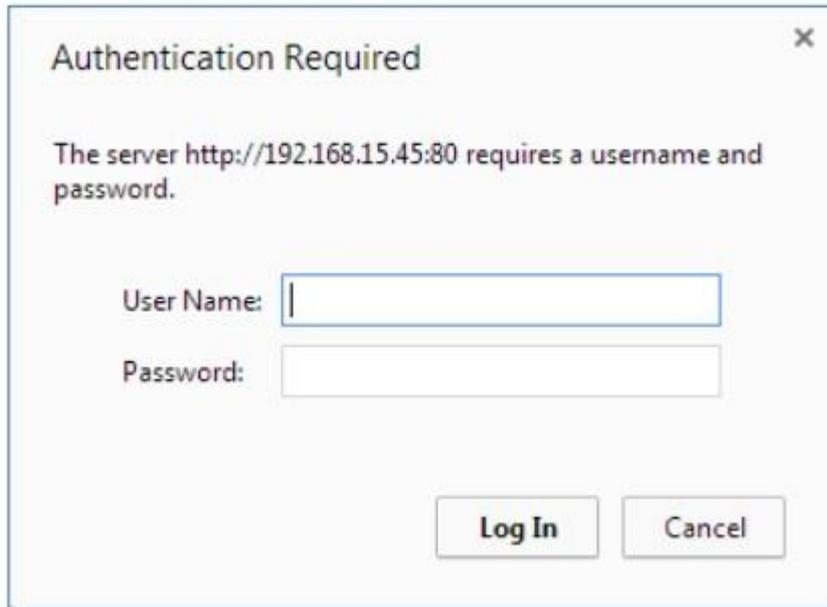
external view

3. Configuration of IP intercom

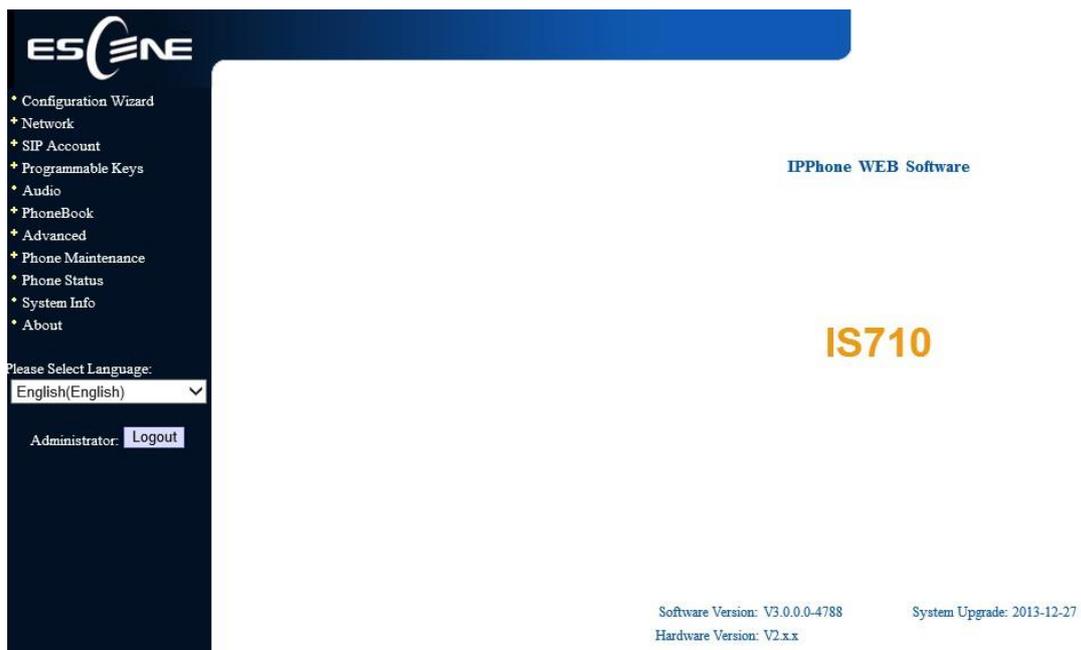
You need to know the IP address of IP Intercom before starting setting. You could learn how to get IP address below. Default IP address is 192.168.1.153.in static status. If getting from DHCP, you need to search the related IP address by the third software scanning equipment MAC. (Getting IP by DHCP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

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 administration web page of the intercom will pop up.



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

3.2 Network

This option is used for 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.

LAN Port

IP settings

DHCP

 Hostname(Option 12):

 Manufacturer(Option 60):

Static IP

 IP Address:

 Netmask:

 Gateway:

PPPoE

 Username:

 Password:

 MTU: Default: 1500

DNS Settings

Automatic

Manual DNS

 Primary DNS:

 Secondary DNS:

MAC Address

 MAC Address: 00:26:8b:ac:03:f1

Port Management Settings

 HTTP Port:

 Telnet Port:

Socket5 Proxy Server

 Socket5 Proxy Server: off on

 Server IP: *

 Port: *

Anonymous Login:

Username:

Password:

Paging Setting

Paging 1: off on
Group IP: Port:

Paging 2: off on
Group IP: Port:

Paging 3: off on
Group IP: Port:

Paging 4: off on
Group IP: Port:

Paging 5: off on
Group IP: Port:

Please Note: Changing the default HTTP Port (80) will require using the new port number to access the IP phone web interface. Please note that changes require a reboot. Use the following format when not using the default HTTP (http://ip address:portnumner).

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:

Display Name:

Username: *

Authenticate Name:

Password: *

Label:

SIP Server:

Secondary server:

OutboundProxy Server:

Secondary OutboundProxy Server:

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

NAT Traversal:

STUN Server:

BLA: off on

BLA Number:

Call Method: SIP TEL

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

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

DNS-SRV: off on

SIP Transport: UDP TCP TLS

Call

Amount Of Line Account Used: (Default: 2)

Do Not Disturb: off on

Anonymous Call:	<input checked="" type="radio"/> off <input type="radio"/> on
Anonymous Call Rejection:	<input checked="" type="radio"/> off <input type="radio"/> on
Use Session Timer:	<input checked="" type="radio"/> off <input type="radio"/> on
Session Timer:	<input type="text" value="300"/> (min:30s)
Refresher:	<input type="text" value="UAS"/>
Allow-events:	<input checked="" type="radio"/> off <input type="radio"/> on
Registered NAT:	<input type="radio"/> off <input checked="" type="radio"/> on
Ring Type:	<input type="text" value="None"/>
UDP Keep-alive Message:	<input checked="" type="radio"/> off <input type="radio"/> on
UDP Keep-alive Interval:	<input type="text" value="30"/> (15-60s)
Security	
SIP Encryption:	<input checked="" type="radio"/> off <input type="radio"/> on
RTP Encryption:	<input checked="" type="radio"/> off <input type="radio"/> on
Encryption Algorithm:	<input type="text" value="RC4"/>
Encryption Key:	<input type="text"/>
<input type="button" value="Submit"/>	

3.4 Programmable keys

This function is reserved for the future.

3.5 Voice

You can adjust the speaker volume and microphone level which are shown in the following table. Please note that in most cases, if you open the microphone setting and set to level 7, it is recommended that you use speaker volume at no more than level 4, unless the environment is such that a higher speaker level is required.

Audio

Tone

Select Country:
 Ring Volume(0~9):
 Begin Time: Hour - Hour
 Ring Volume in Night(0~9):

Output Volume (1~9)

Handset Volume:
 SpeakerPhone Volume:
 Headset volume:

Input Volume(1~7)

Handset Mic Volume:
 SpeakerPhone Mic Volume:
 Headset Mic Volume:

Voice Codec

Payload Length: ms
 High Rate of G723.1:

Jitter Buffer

Type: Adaptive Fixed
 Min Delay:
 Max Delay:

Other

VAD:
 SideTone:
 Echo Suppression Mode:

Ring

Ring Type:
 Ring Type2:

Uploading Ring

Tone

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

Audio Codecs:

G722 G711A G711U G729A G723	iLBC G726_32
---	-----------------

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., are functions which can 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 used. Other functions do not need to be changed arbitrarily..

3.7.1.1 Switch signal output

3.7.1.1 Relay output

Relay output 1~2 which can be controlled by multiple variables, e.g DSS key/Logical input1~2/Server control/DTMF, the server control is define variable which can coordinate and adjust to be compatible with the special requirements of some particular platform.

Basic

OutPut1: Press Key InPut1 InPut2 Server Control
 DTMF Number: Short Circuit Time: s
 (1-10)

OutPut2: Press Key InPut1 InPut2 Server Control
 DTMF Number: Short Circuit Time: s
 (1-10)

Relay output operation guide:

- a. Press Key means if you press the DSS key at once, the Relay Output 1 will be activated.
- b. Logical Input 1~2 example:

3.7.1.2 Hot Line

Hotline function can be set as per the panel below. Default is to hotline immediately. It

can be set for delay.

Hot Line Function: off Immediately Hot Line Delay s (5-30)
Hot Number:

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 settings will guide you.

VLAN Setting

LAN Port	PC Port
Enable VLAN: <input type="checkbox"/>	Enable VLAN: <input type="checkbox"/>
VID: <input type="text" value="0"/> (0~4094)	VID: <input type="text" value="0"/> (0~4094)
Priority: <input type="text" value="0"/> (0~7)	Priority: <input type="text" value="0"/> (0~7)

3.7.3 VPN Setting

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

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 below, you can reconfigure the Intercom IP Phone or view Intercom IP Phone log to gain more information about maintenance.

3.8.1 Log

For most systems, the log document will offer the record of 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.

Log

No Record

Call:

SIP

LCD

Log send to server: off on

Log Server Address: :

Capture Packet:

3.8.2 sword

If you need to change the default password of Intercom IP Phone, you will need to configure password information. Please note that password changes should be recorded and kept secure.

Password

Username:

Old Password:

New Password:

Confirm Password:

Administrator User

3.8.3 Factory reset

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



3.8.4 Auto Provision

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

Auto Provision

Auto Provision: on off

Option: (Default :66, Min:1, Max:254)

Protocol: ▼

Software Server URL:

Username:

Password:

Auto Download Software

Auto Download Kernel

Auto Download Config File

Broadsoft Compatibility

Auto Download Expansion

Auto Download Enterprise Phonebook

Auto Download Personal Phonebook

Booting Checked

Disable the phone while booting checking: off on

Auto Provision Frequency: Hour (Default :7 days, Max:30 days)

Auto Provision Time: ▼

Auto Provision Next Time: Thu Apr 10 20:28:59 2014

AES Enable: off on

AES Key:

3.8.5 69 Upgrade

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

TR069

Cwmp Enable

Protocol:

Cwmp Host URL:

Cwmp Port:

Serial Number: 00100400YJ012050000000268bac03f1

Username:

Password:

Password

New Password:

Confirm Password:

3.8.6 Upgrade

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

FTP Upgrade (Attention: Do not cut off the electricity when Upgrade!!)

Server IP:

Filename:

Username:

Password:

Software Upgrade:

Kernel Upgrade:

Note: It's no necessary to input filename when backup.

Configuration:

Phone Book:

EXT Module:

3.8.8 P Upgrade

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

TFTP Upgrade (Attention: Do not cut off the electricity when Upgrade!!)

Server IP:

Filename:

Software Upgrade:

Kernel Upgrade:

Note: It's no necessary to input filename when backup.

Configuration:

Phone Book:

EXT Module:

3.8.9 P Upgrade

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

HTTP Upgrade (Attention: Do not cut off the electricity when Upgrade!!)

HTTP Upgrade:

Select a File: Browse...

Software Upgrade:

Kernel Upgrade:

Configuration:

XML PhoneBook:

Vcard:

EXT Module:

Log:

All Config File:

3.8.10 boot

The following will direct you if rebooting Intercom. Please note that do not need to reboot unless no response or hanging or freezing occurs

Reboot

Attention: When click this button this equipment will be reboot, web service will be interred, please connect again.

3.9 Intercom Status

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

The screenshot displays the 'Phone Status' page with the following information:

- System Run Time:** 0 Day 0 Hour 25 Minute 46 Second
- Register status:** Account1: **None**
- Network Status:**
 - LAN Connection: Static
 - LAN IP Address: 192.168.1.153
 - Netmask: 255.255.255.0
 - Gateway: 192.168.1.1
 - Primary DNS: 192.168.0.1
 - Secondary DNS: 0.0.0.0
 - VPN IP Address:
 - PC IP Address:
 - PC Netmask:
 - Device Type: Bridge
 - DHCP Server: off
- Hardware:** Hardware ID: 1

A 'Refresh' button is located at the bottom left of the page.

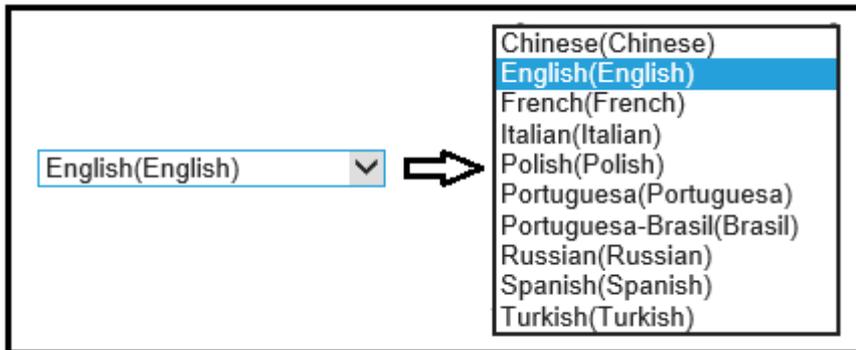
3.10 System Info

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



3.11 Language

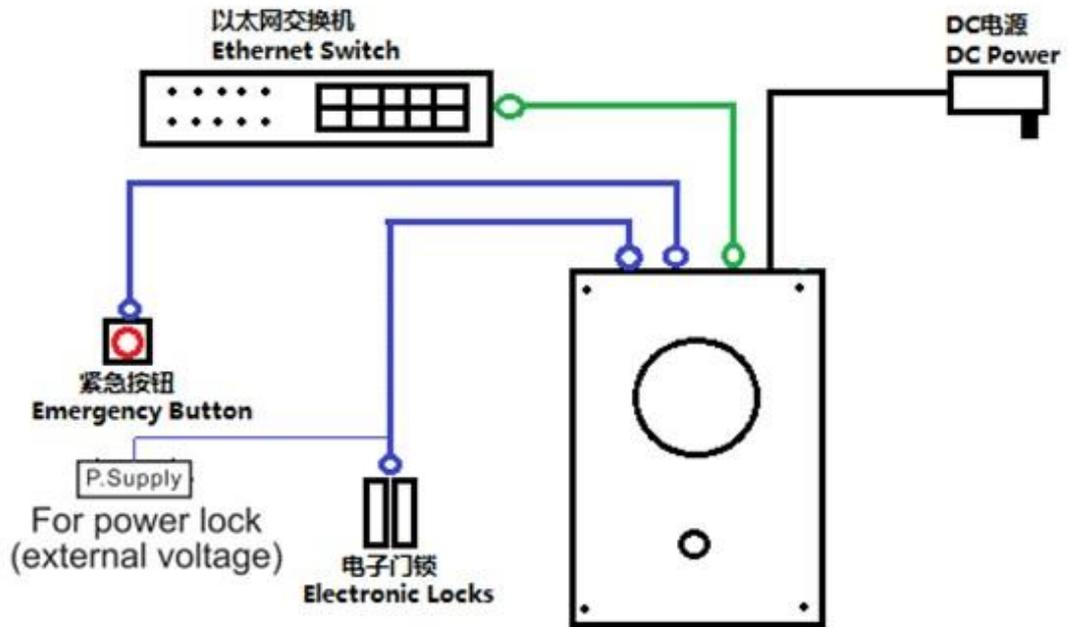
The following will direct you how you to change language with the intercom.



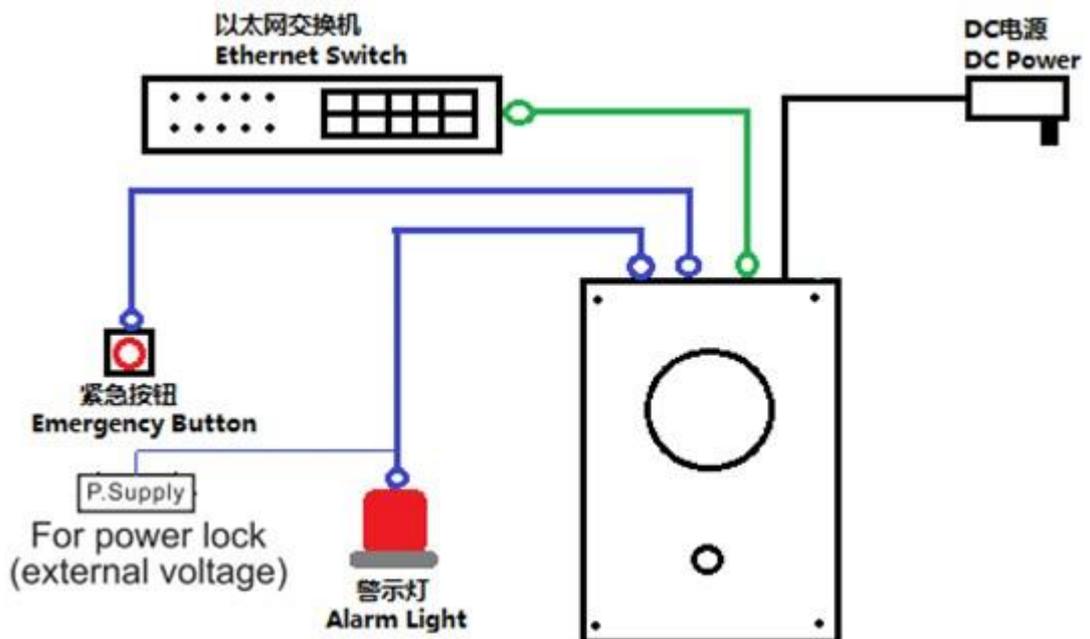
4. Brief pictures for application environment

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



4.2 Fire protection system application



Notes:

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