i20S

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SIP Door Phone

Quick Installation Guide

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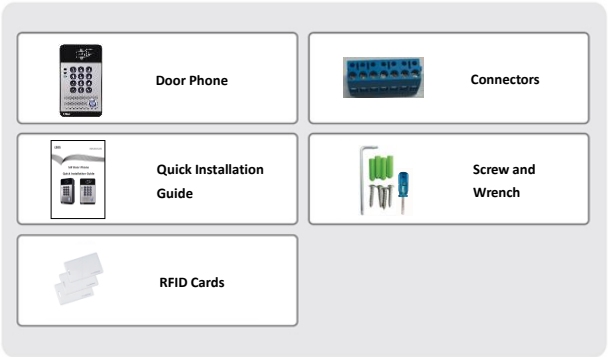
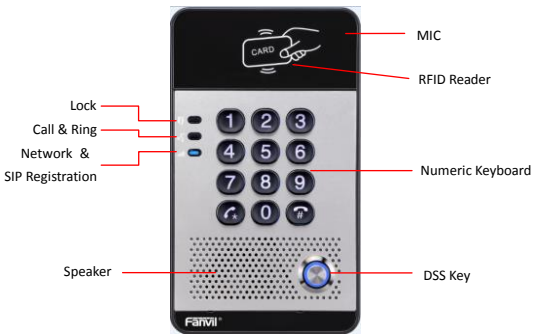
1. Package Contents



2. Physical Specifications

Device size	**160 x 93 x 35 mm**
Weight	**420g (gross weight)**

1) Front Panel



Interface	Description
Speaker	The door phone has a built-in speaker for convenient communication and alert use.
MIC	The door phone has a built-in microphone hidden in the pinhole located on the front panel.
RFID Reader	Use RFID cards to unlock the door by touching RFID reader of device.

Button Definition

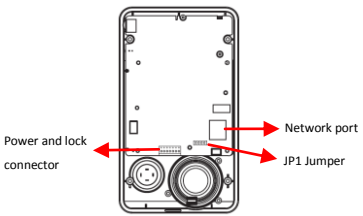
Button	Description
DSS Key	Press the Button, calling or request to open the door.
Numeric Keyboard	Input password to open the door or call.

LED Definition

LED	Status	Description
Lock	Steady Blue	Door unlocking
	off	Door locking
Call & Ring	Blinks per second	Call Hold or Ringing
	off	On Hook
	Blinks every 3 seconds	Device in the issuing state
	Steady Blue	Online talking
Network & SIP Registration	Blinks per second	Network error
	off	Network is normal, SIP is not registered
	Blinks every 3 seconds	SIP Registration failed
	Steady Blue	SIP Registration succeeded

2) Port Definition

After removing the Back Panel of i20S, there are one terminal block connectors for power and lock control connection as shown in the picture below.



Network Connector

Power and Electric-lock Connector

1	2	3	4	5	6	7
+DC12V	VSS	NC	COM	NO	S-IN	S-OUT
12V DC Input		Electric-lock switch			Indoor switch	

JP1 Jumper

There are two modes for power supply of electric-lock as shown in the picture below.

(The default is "**Passive Mode**").

Passive Mode: When the electric-lock starting current is more than 12V/500mA, need to use the external drive mode, the electric lock interface for short circuit output control.

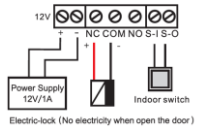
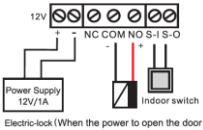
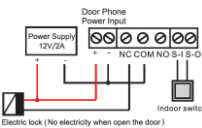
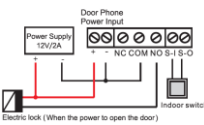
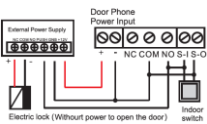
Active Mode : When the electric-lock starting current is less than 12V/500mA, can use the internal drive mode, the electric lock interface is 12V DC output.

Wiring instructions

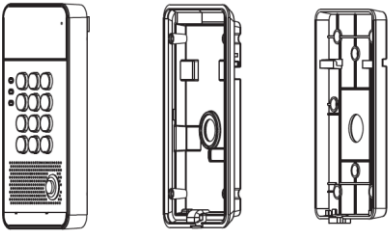
NO: Normally Open Contact

COM: Common Contact

NC: Normally Close Contact

Driving Mode		Electric-lock Mode		JP1 Jumper	Connections
Active	Passive	No electricity when open	Electrify when open		
√		√		Active Mode 1 2 3 4	
√			√	Active Mode 1 2 3 4	
	√	√		Passive Mode 1 2 3 4	
	√		√	Passive Mode 1 2 3 4	
	√	√		Passive Mode 1 2 3 4	

3. Installation



Main Part of Intercom Back Panel Wall-mounted hanging shell

Figure 1 Three Major Parts of i20S

Step 1: Installation preparation

A. Check the following contents:

- Hex wrench x 1
- RJ45 plugs x 2 (1 spare)
- KA4 x 25mm screws x 4
- 25mm screw anchors x4

B. Tools that may be required:

- Hex wrench
- Phillips screwdriver (Ph2 or Ph3), hammer, RJ45 crimper
- Electric impact drill with an 6mm drill bit

Step 2: Drilling

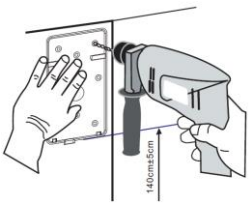


Figure 2 Wall Mounting

A. Place the mounting template with dimensions on the surface of a wall in a desired flat position.

B. Use an electric drill to drill the 4 holes marked on the mounting template. It is recommended to drill about 30mm deep. Remove the template when finishing drilling.

C. Push or hammer screw anchors into the drilled holes.

Step 3: Removing hanging shell

A. Remove the hanging shell in Figure 3 and Figure 4.

Figure 3

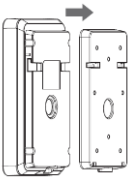


Figure 4

B. With Phillips screwdriver, unpacks the Back Panel and the main part of intercom as shown in Figure 5.

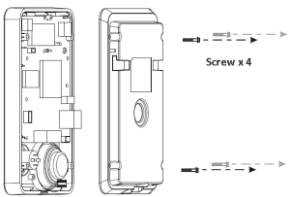


Figure 5

Step 4: Hanging shell Fixing and Cabling

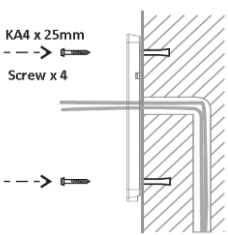


Figure 6

A. Select the hole for cable supply; cable length of 15cm to 20cm is recommended.

B. With 4 KA4 x 25mm screws, tighten the Wall-mounted hanging shell as shown in Figure 6.

Step 5: Connection line

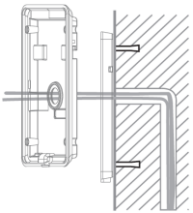


Figure 7

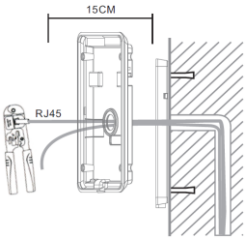


Figure 8

A. Select the hole for cable supply.

B. Connect the cables of RJ45, power, and electric-lock to the motherboard socket as mentioned in connectors description (refer to Section 2).

C. Test whether there is electricity by doing the following:

Press the # button for 3 seconds to get the IP address of intercom by voice.

Input access password or press the indoor switch to check electric-lock installation.

Note: Do not proceed mounting until you have finished the electric checking.

Step 6: Mounting

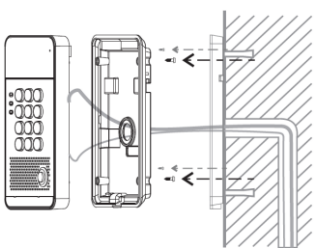


Figure 9

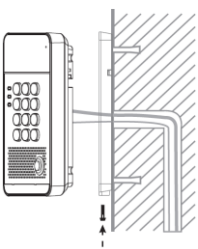


Figure 10

A. Use the 4 screws to tighten the main part of intercom on the back panel as shown in Figure 9.

B. Push the device into the Wall-mounted hanging shell and tighten it with 1 screw as shown in Figure 10.

C. Make sure the screws have been tightened properly for better waterproof effect.

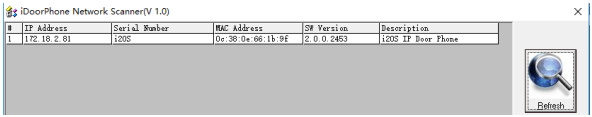
4. Searching Door Phone

There are two methods as shown below to search the i20S.

Method 1:

Open the iDoorPhone Network Scanner. Press the Refresh button to search the i20S and find the IP address.

(Download address http://download.fanvil.com/tool/iDoorPhoneNetworkScanner.exe)



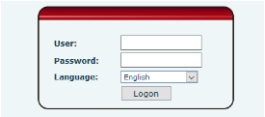
Method 2:

Press and hold the "#" key for 3 seconds and the door phone will report the IP address by voice.

Default Setting	
Default DHCP Client	On
Static IP Address	192.168.1.179
Default Web Port	80
Default Login User Name	admin
Default Login Password	admin
Display IP address	Hold # for 3 seconds to display by voice
Search Tools	iDoorPhone Network Scanner

5. SIP Door Phone Setting

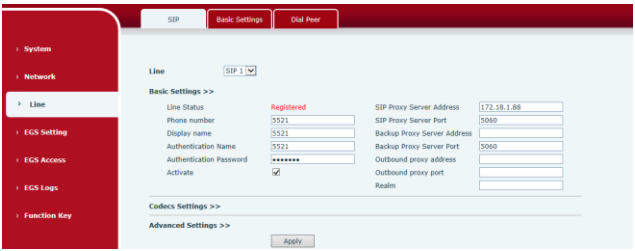
Step 1: Login the homepage of the i20S.



Step 2: Add the SIP account.

Set SIP server address, port, user name, password and SIP user with assigned SIP account parameters.

Select “Activate”, and then click Apply to save this setting.



Step 3: Setting DSS key

Set the DSS key as shown below for a quick start. Click “Apply” to save this setting.

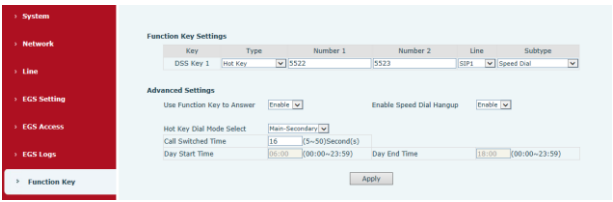
Type: Hot Key

Number 1: The DSS Key will dial to this Number 1.

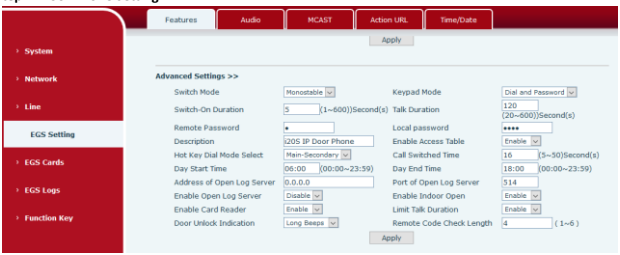
Number 2: If Number 1 is unavailable, it will be forwarded to Number 2.

Line: Working line

Subtype: Speed dial



Step 4: Door Phone Setting



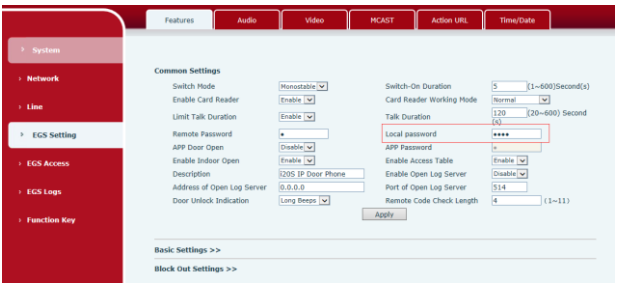
6. Door Unlocking Setting

Local

1) Local Password

Step 1: Go to **EGS Setting** → **Features** → Set **Local Password** (The default is "**6789**").

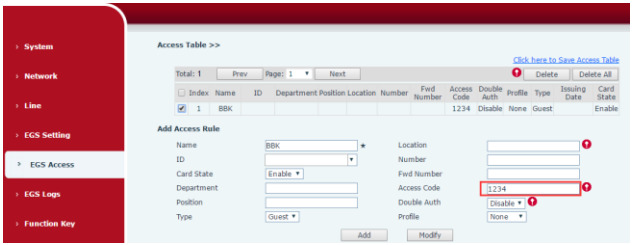
Step 2: Use the device's **Numeric Keyboard** to input **password** and "**#**" key, and then the door will be unlocked.



2) Private Access Code

Step 1: Go to **EGS Access** → **Access Rule** → set **Access Code**.

Step 2: Use the device's **Numeric Keyboard** to input **password** and "**#**" key, and then the door will be unlocked.

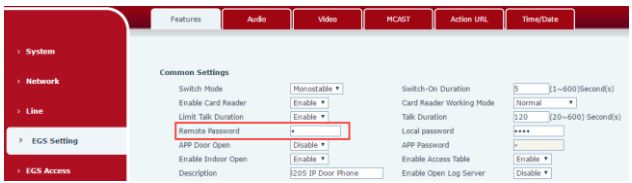


Remote

Remote Password

Step 1: Go to **EGS Setting** → **Features** → Set **Remote Password** (The default is "*****").

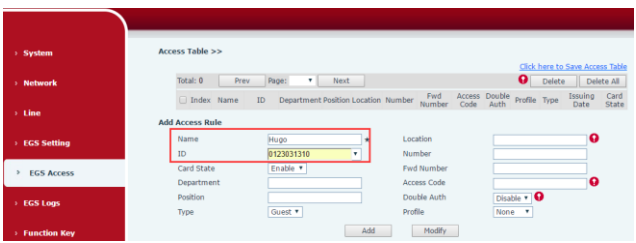
Step 2: To answer the call made by visitor via SIP phone, press the "*****" key to unlock the door the visitor.



RFID Card

Step 1: Go to **EGS Access** → Enter the Name and ID Number (Only Front 10 yards) → Press **Add** to Access Table.

Step 2: Use pre assigned RFID cards to unlock the door by touching RFID area of device.



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