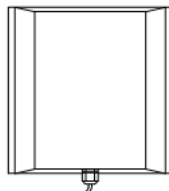
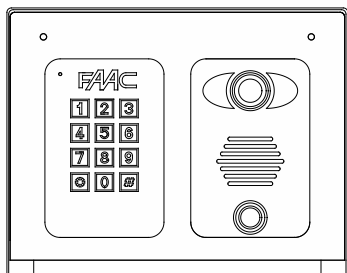


Installation Instructions

WIFI-PRO2 / Part No. 4402

PROFESSIONAL INSTALL ONLY

Do NOT give this manual to end user!



Tip: Site Survey **BEFORE** you begin.
See Page 3!

v1.1

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FAAC

Index

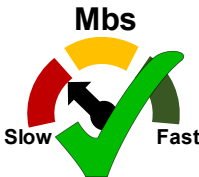
Section	Pages
Site Survey	3
Overview of Product	4
A look inside the product	5
Main Intercom Module Detail	6
Keypad Module Detail	6
Power Module Detail	7
Antenna Installation	7
Power to Call Box	8
Relay Wiring Tips	9
APP Install	10
WIFI Setup	10-15
LAN Setup	16-17
Intercom Testing	18
Answering the Call	19-20
Adding Additional APP Users	21
Other Settings	22
Sound Volume & Speech	23
Using The APP	24
Keypad Overview	25
Keypad Programming	25-27
Troubleshooting	28
Warranty	30
Compliance	31

Site Survey



YES!

I have some wifi signal at the gate with my phone! If not, STOP. You will need some form of wifi extender, or repeater, or LAN/CAT5 cable!



YES!

I have at least 1 Mb **UPLOAD** speed. If not STOP! This system may operate intermittently remotely or have delayed PUSH notifications.



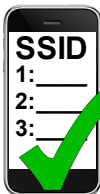
YES!

My wifi Internet Security is WPA or WPA2 or better.



YES!

My wifi network supports 802.11 b/g or n (2.4g frequency networks). Note: This device cannot run on "a" or "s" type networks (these are 5G frequency).

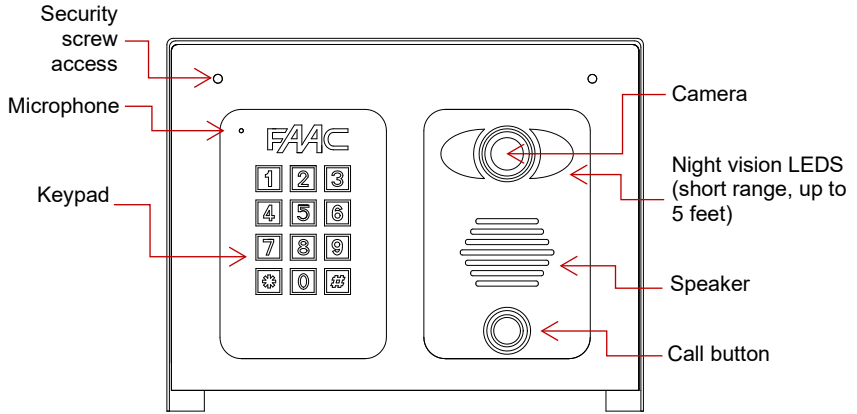


YES!

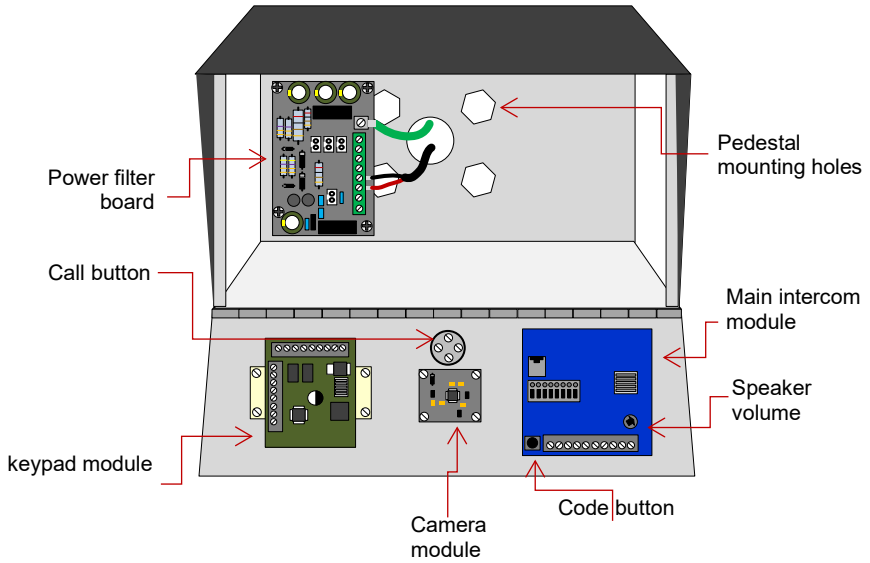
The network I am trying to connect to is a single network without duplicate SSID networks of the same name.

Please consult with the person that configured the Wi-Fi network on the premise if you need help with these steps.

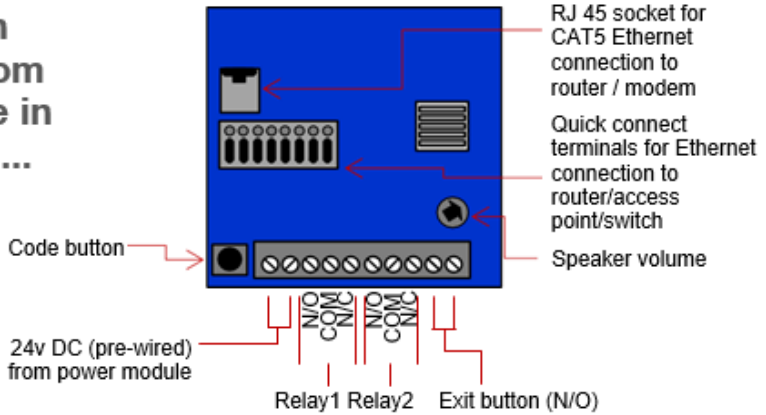
Overview of Product



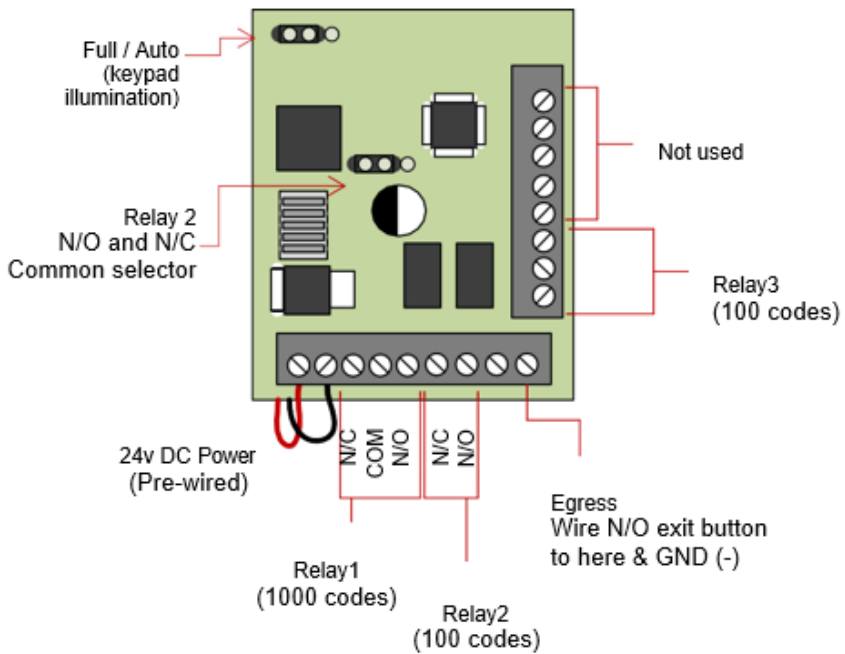
Now let's have a look inside...



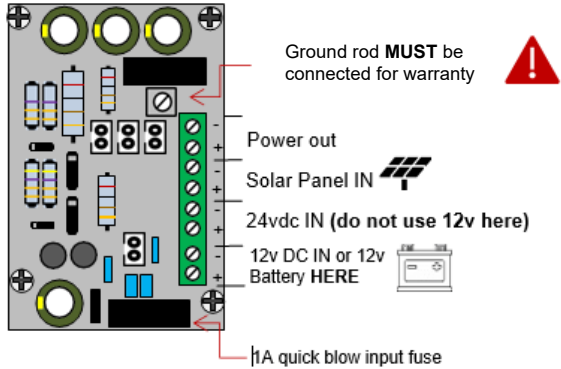
Main Intercom Module in Detail...



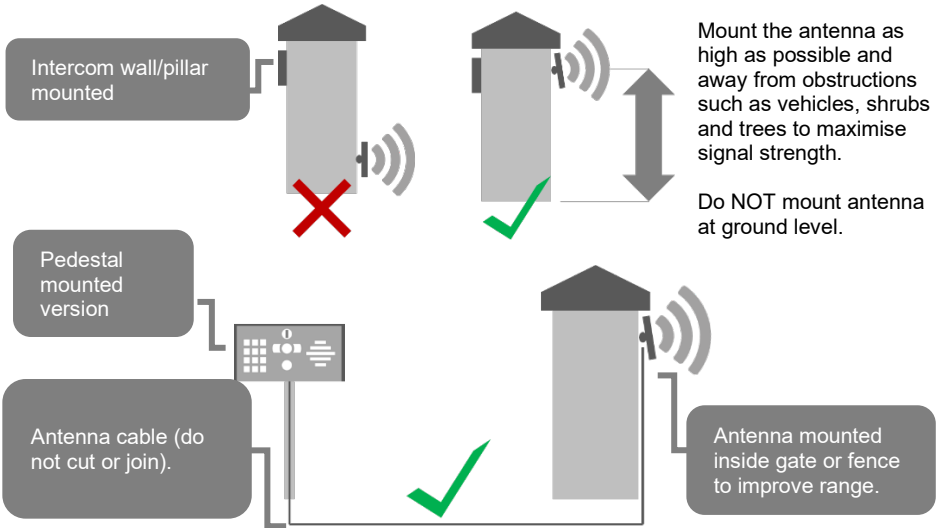
Keypad Module in Detail...



Power Module in Detail...

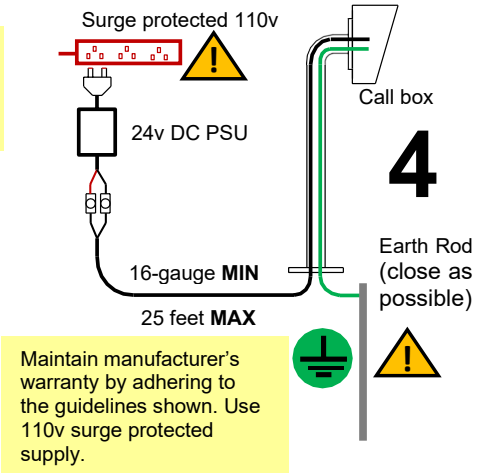
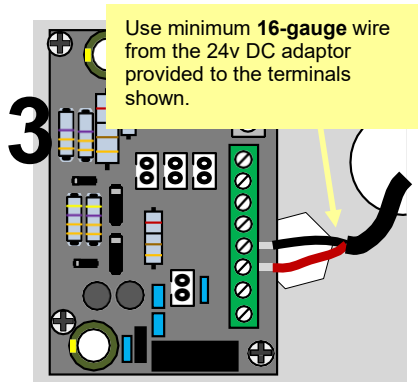
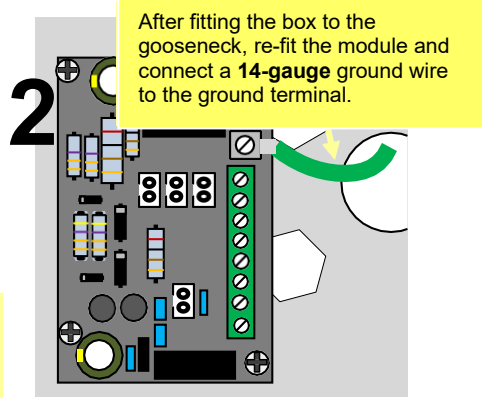
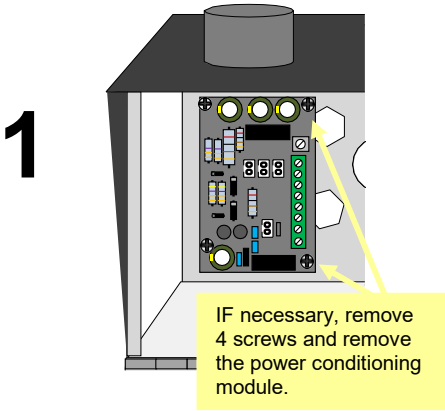


Antenna Installation



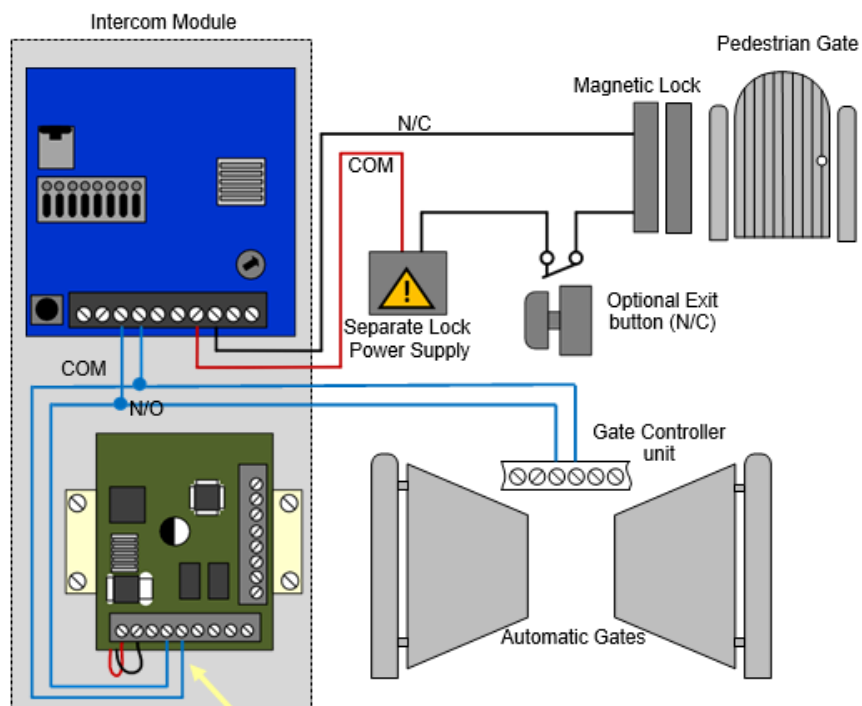
Note: Ensure you have only one SSID within range of the intercom. If you have a mesh system or multiple repeaters with the same SSID that the intercom can see STOP install. This system will not operate correctly.

Power to Call Box



Power Consumption:
 Standby = 80mA
 Calling Out = 300mA

Relay Wiring Tips



Remember to wire keypad relays to lock or gates as well as the main intercom module.
 Note: Relay 2 can be set to N/O or N/C as per keypad detail section.

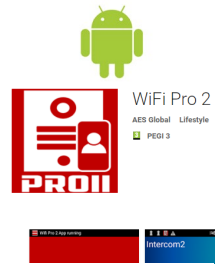
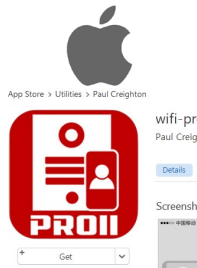
Note: Never connect any electric lock to the power supply provided with the intercom. It is good practice and professional to power a lock from a separate power supply.

App Install

Download and install the app on the end-user's phone.

Search for **WiFi PRO 2** and find the icon, or scan the QR code if the phone has a QR scan app.

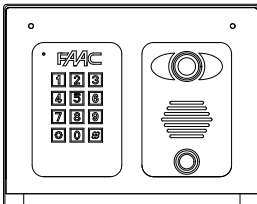
Tip: Be sure to accept ALL permissions during install, otherwise you will experience problems later!



WiFi Setup

Step 1

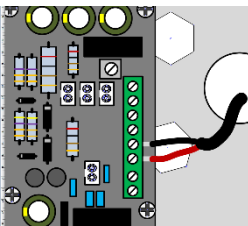
Loosen top screws



Landscape
Pedestal Style

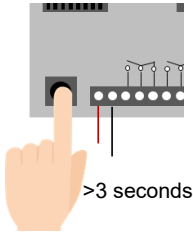
Open the intercom and connect antenna.

Step 2



Connect 24v DC power with the power supply provided.

Step 3



Press and HOLD the code button for more than 3 seconds. A tone will be heard when the button is released.

The intercom will now begin to transmit its own wifi network called BELL-XXXXXX (where XXXXXX is the 6 numerical digits from the serial ID number).

Step 4a



With the user's phone, search for available wifi networks and connect to the BELL network.



TIP: Your phone needs to be within range of the intercom to detect this network.

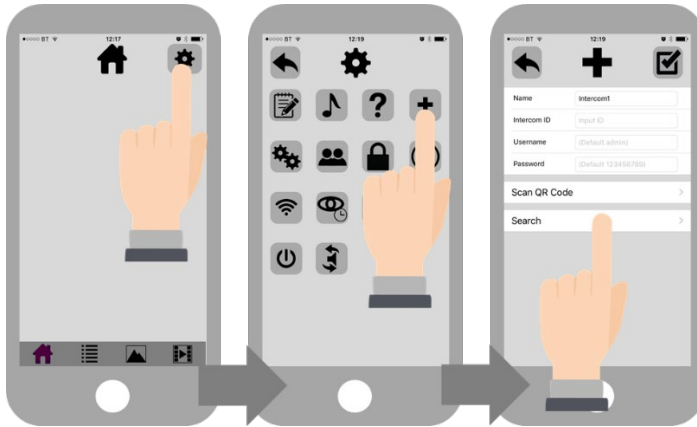
Step 4b



Enter the default pass code **123456789** and the users phone should now be connected directly to the intercom.

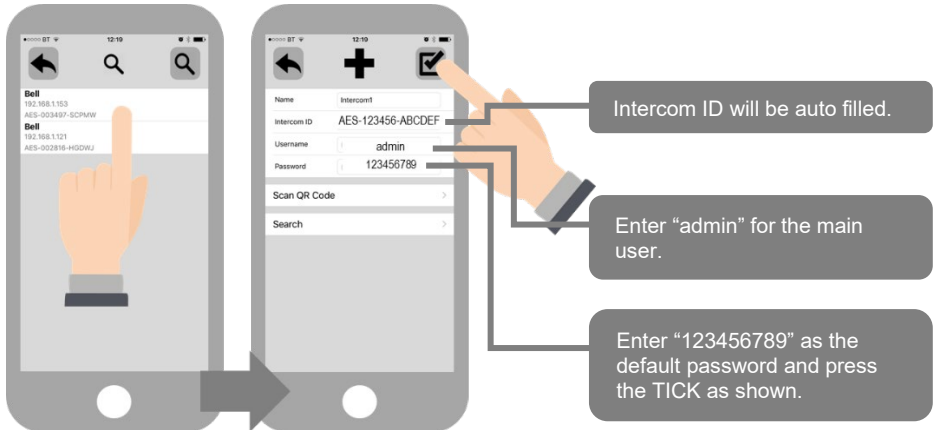
Press CONNECT on android devices and DONE on apple devices.

Step 5a, 5b, 5c



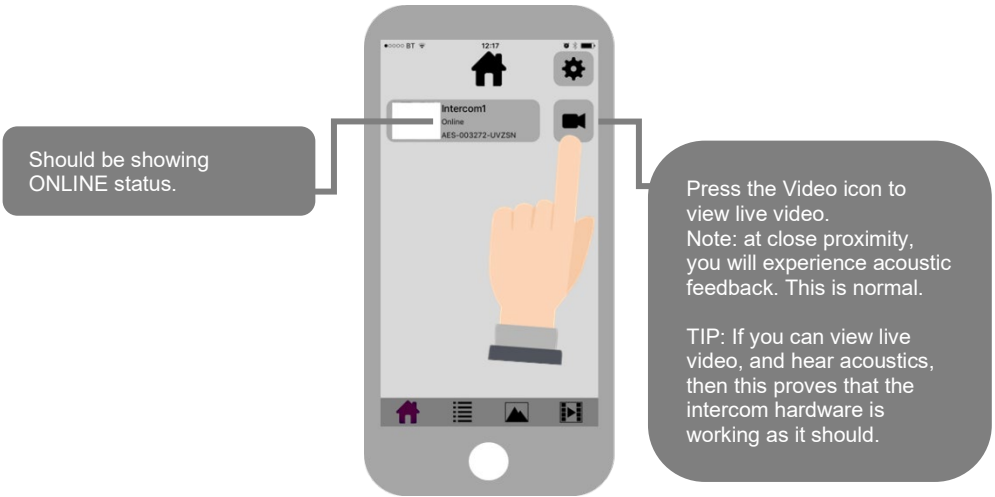
After pressing SEARCH, the APP will now search for the intercom and should detect it.

Step 5d, 5e



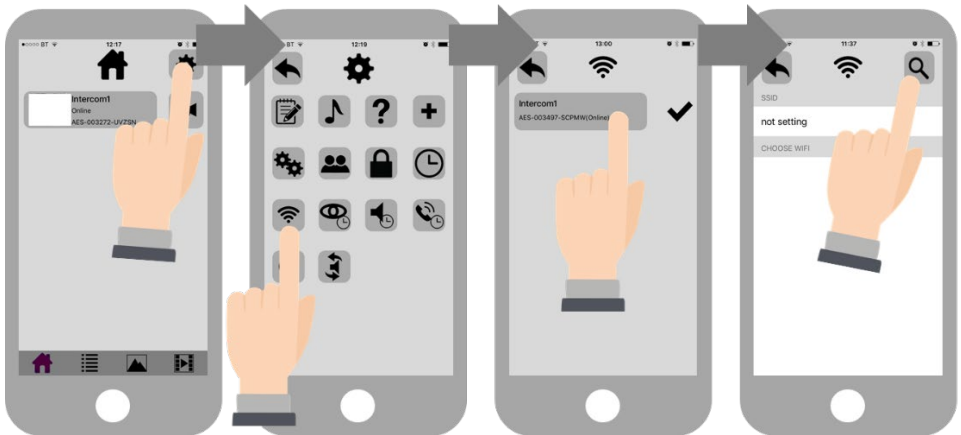
- Intercom ID will be auto filled.
- Enter "admin" for the main user.
- Enter "123456789" as the default password and press the TICK as shown.

Step 6



Step 7a,b,c,d

Note: The intercom and phone are directly connected in a point to point link. Although we know the intercom is fully operational, we now need to connect it to the local wifi network.



The intercom is now searching the area for wifi networks and will display all compatible networks on the App screen.

Step 7e,f,g



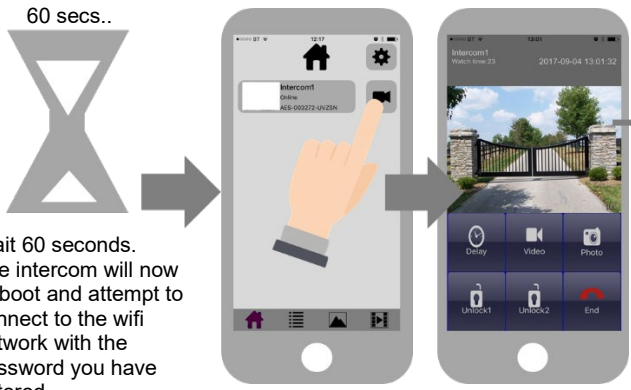
Enter the WIFI PASSCODE for the network which you are connecting to.

WARNING: Take care not to enter a typing mistake. The intercom will accept any wifi password and will not know if it is correct or not!

Wifi Signal strength must be at least 25%, or you will have problems!

Step 8

60 secs..



Wait 60 seconds. The intercom will now re-boot and attempt to connect to the wifi network with the password you have entered.

If you can see live video and hear audio, the intercom has successfully connected to the network.

If for some reason this does not work, try connecting to the wifi network again and double check the wifi password is correct.

Ensure the date & time stamp are correct on the system. If this is not correct it will prevent PUSH notifications being sent to the devices, therefore potentially missed calls.

If incorrect follow the steps below to correct:

- Go to settings and then time settings, clock icon.
- Select the correct time zone and save.
- Go back to settings and click on the reboot icon, confirm reboot.
- This will correct the time on the intercom.

Diagnostic Tips



1. Intercom is showing online status, but the video feed shows “fetching”.

A: This can be caused by poor power cable extended to the intercom, weak wifi, or too many devices connected to the wifi network and the router is incapable of managing the workload.

2. Intercom is not showing online status.

A: This can be caused by incorrect wifi password created, or wifi dropping in and out due to weak signal.

3. I can see video but there is no audio on the phone or there is no audio at the intercom.

A: This can be caused by the audio settings being too low on the phone, or permissions for the app were not accepted during app install. Check microphone permissions for the app in the phone settings.

4. The status is showing online, then connecting, then online again.

A: This is normal when a phone roams between two wifi connections, or between wifi and data. Make sure the phone is stationary and either has good wifi or a stable data connection.

5. The video is inconsistent at different times of the day

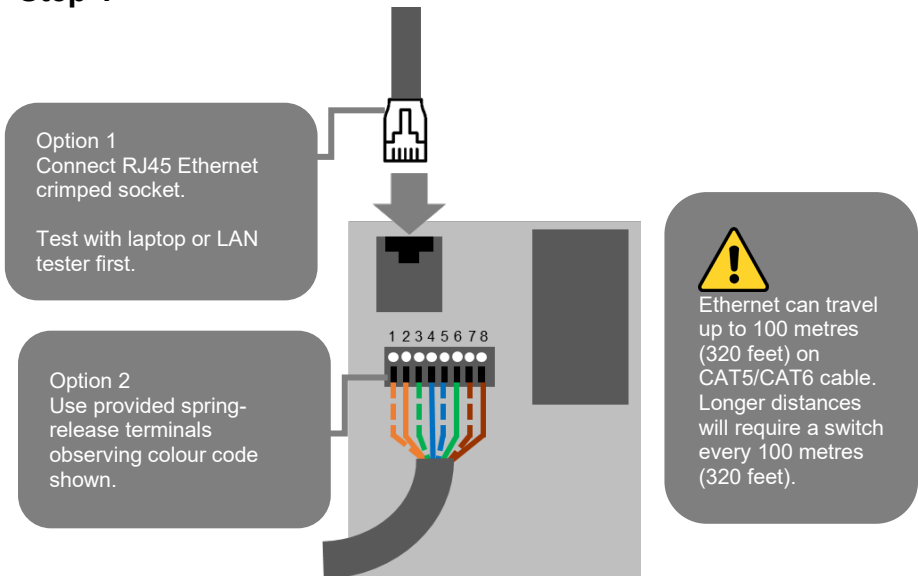
A: Make sure the antenna has a clear line of sight and nothing is obstructing it.

LAN Setup

(When WiFi signal too weak or too far from signal)

This intercom can also be connected to a LAN cable directly from the router or from a repeater or point-to-point wifi bridge device. Note: Ethernet LAN signals can travel 100m/300ft on CAT5 cable. Longer distances will require a powered switch or repeater every 100m/300ft.

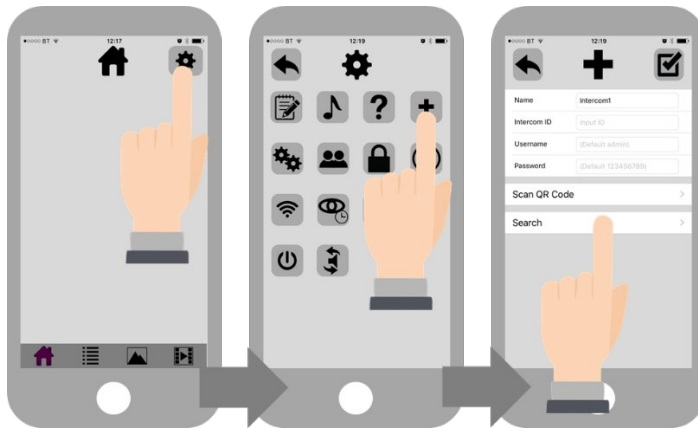
Step 1



Color Codes:

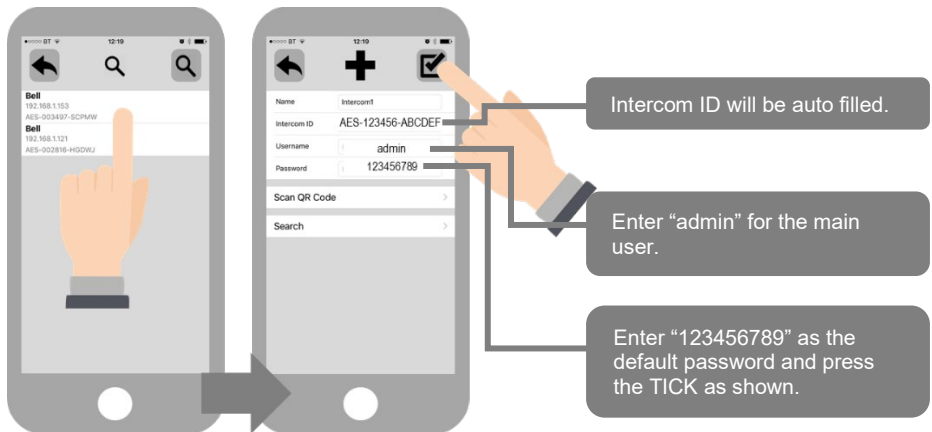
Pin	Color
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Red / White
8	Red

Step 2a, 2b, 2c.



Insert the intercom ID. This can be found on the test slip in the box or by following steps 5-7 in WiFi setup.

Step 2d, 2e

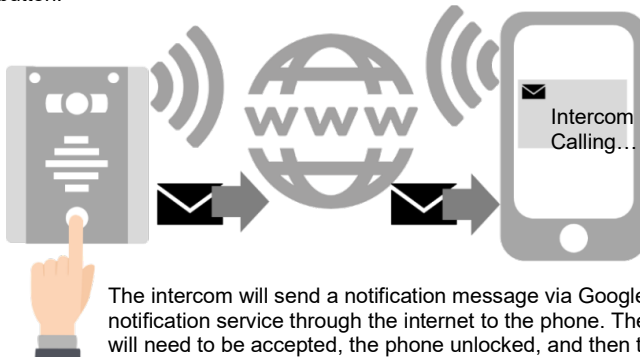


Step 3



Intercom Test

Press the call button.

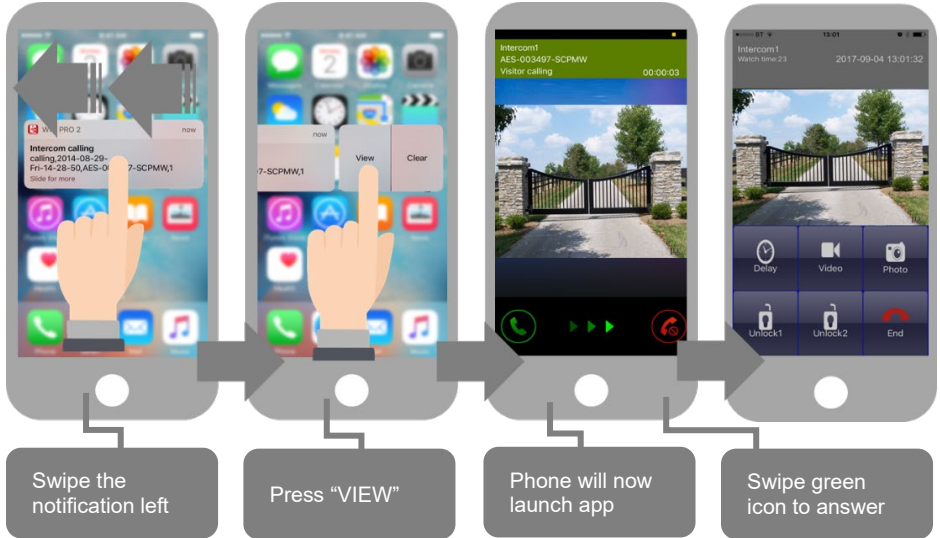


The intercom will send a notification message via Google™ PUSH notification service through the internet to the phone. The notification will need to be accepted, the phone unlocked, and then the APP will launch to reveal the visitor and give the user an opportunity to either accept or reject the call..

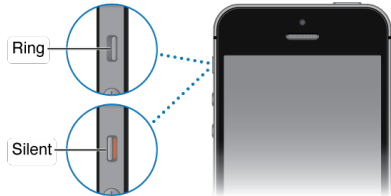
Answering on Android



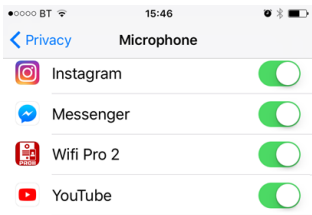
Answering on Apple



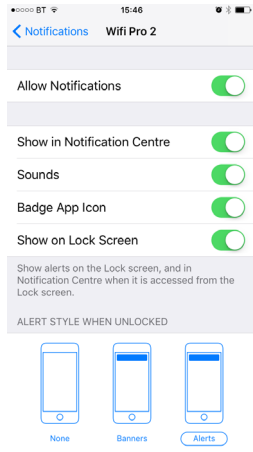
Note: Various versions of IOS and Android OS will have different notification acceptance techniques. Please refer to online support for your device if needed.



TIP: Make sure ringer switch is ON and volume is turned up.



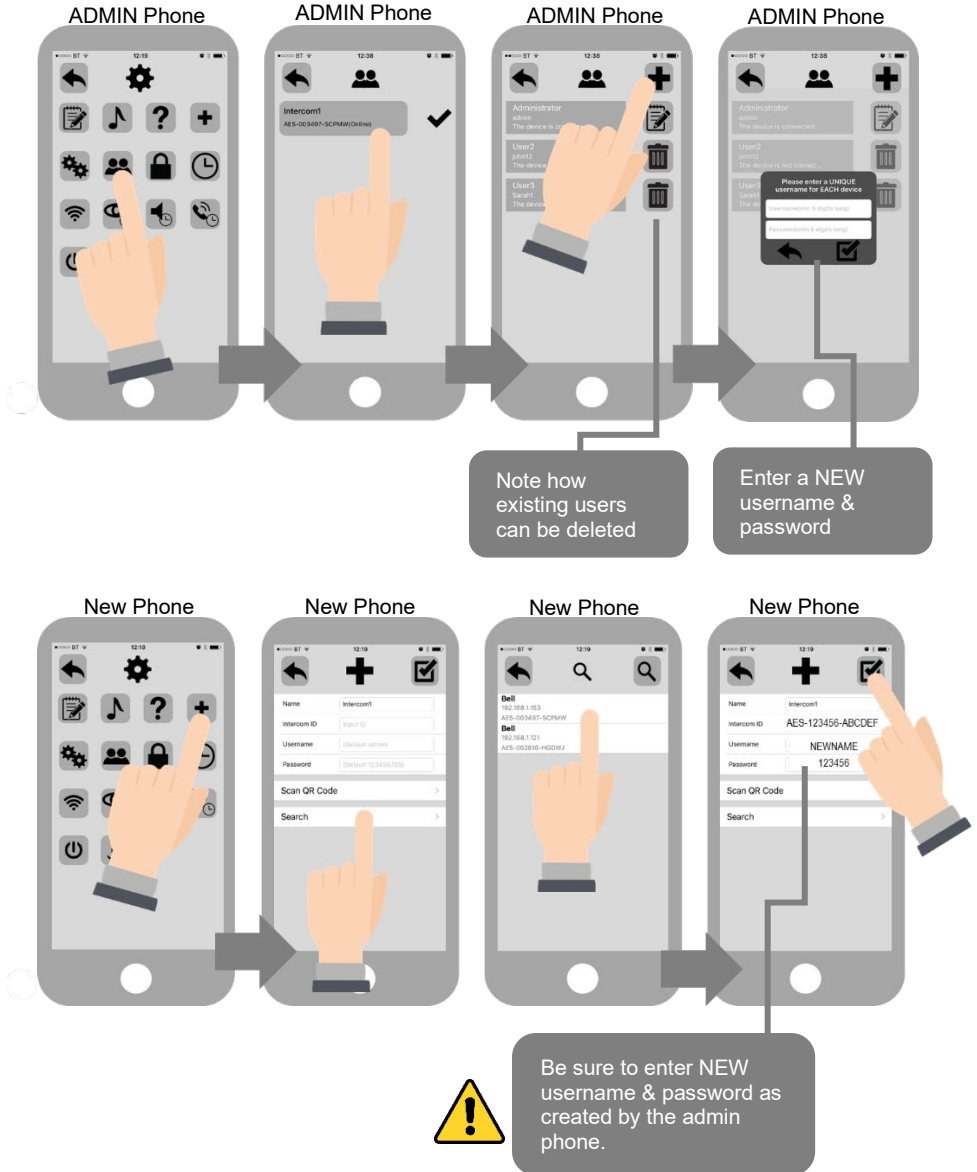
TIP: If there is no voice from the speaker at the gate, check the iPhone microphone permissions in Settings/privacy/microphone



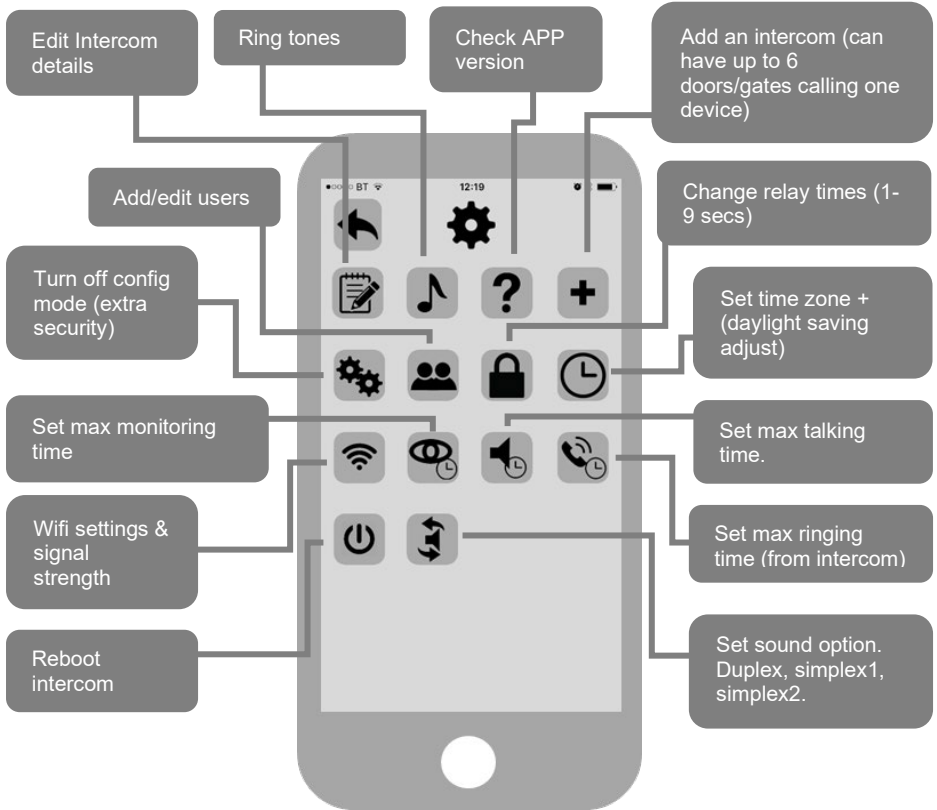
TIP: If you don't get notifications then check settings/notifications and select the app.

Adding Additional APP Users

Additional users **MUST** be added with individual usernames. Do **NOT** use the same username.

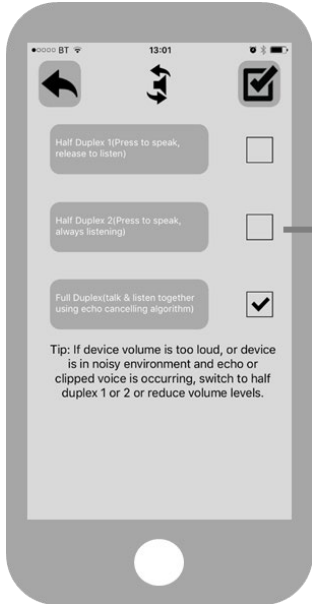


Other Settings



Sound, Volumes and Speech

This intercom is capable of full duplex speech, which means two people can have a conversation and appear to speak at the same time. Since various manufacturers of android phones, iPhones and tablets all differ in acoustic performance, and different users may require varying levels of volume on their own handset, it may be possible to setup some devices in full duplex mode but others may need to be set in half duplex mode (phone user will press to talk). This may also be required if a phone is in a particularly noisy environment, or the intercom is located near a busy main road with high levels of traffic noise.



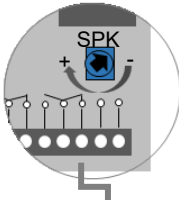
Choose the speech option which best suits the individual and the device being used.

Half Duplex 1(Press to speak, release to listen)

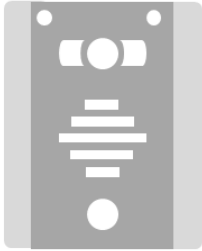
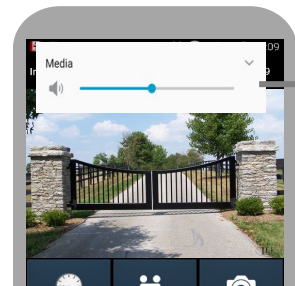
Half Duplex 2(Press to speak, always listening)

Full Duplex(talk & listen together using echo cancelling algorithm)

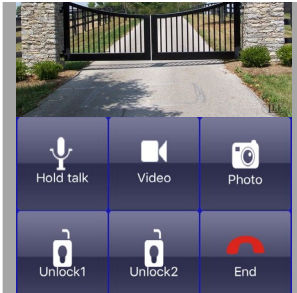
Tip: If device volume is too loud, or device is in noisy environment and echo or clipped voice is occurring, switch to half duplex 1 or 2 or reduce volume levels.



Suggest 80% MAX volume

Suggest 50% MAX volume on Android

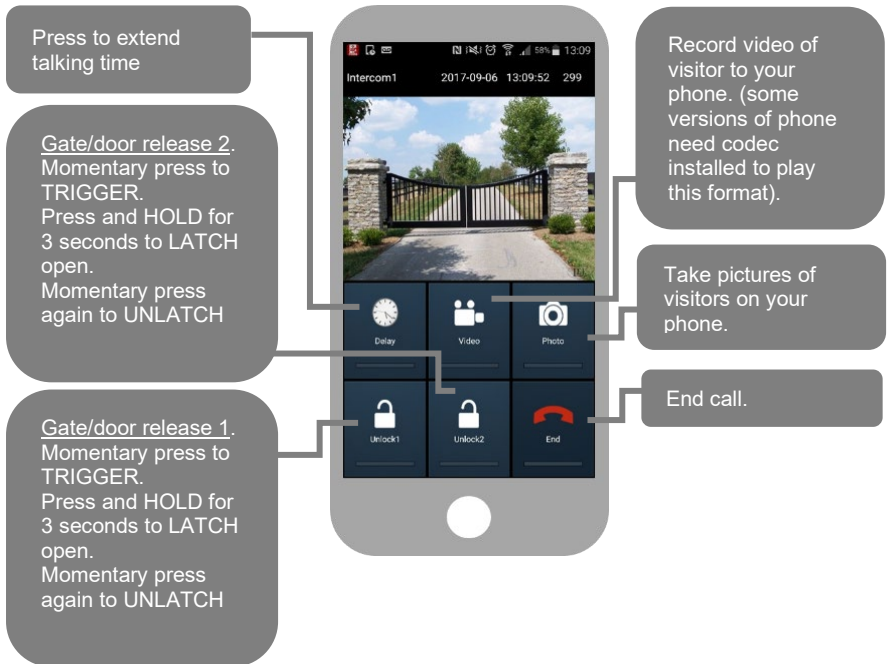
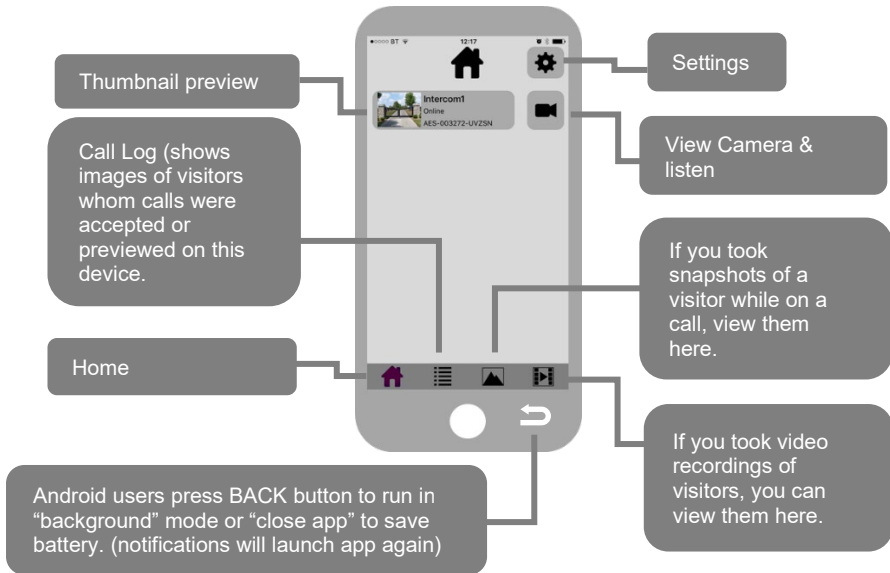


Hold talk Video Photo

Unlock1 Unlock2 End

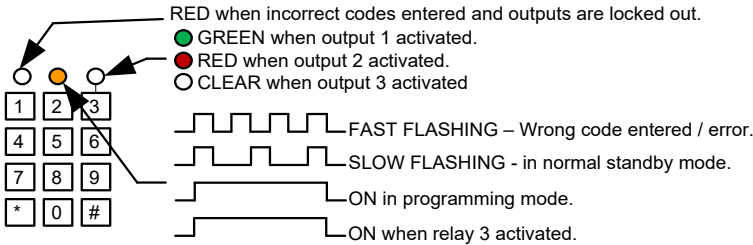
“Press and Hold” option appears when device set to half duplex 1 or 2.

Using the APP



Keypad Overview

This keypad has 3 outputs, all independent from the intercom/app relays. The diagram below shows the LED indicators which indicate programming and relay status information.



TIP: After power up, as a security precaution, the keypad cannot be programmed for 60 seconds. Once this time elapses, you may begin.

TIP: Flashing amber LED is normal standby mode!

Keypad Programming

Quick start guide

- 1) Enter programming mode (amber LED should be ON)
- 2) Enter a new user code...
- 3) Exit programming mode
- 4) Enter the new user code to check the relay clicks.

Tip: The engineer code must be the same length as user codes. If using a 6 digit engineers code, then user codes must also be 6 digits long etc.

Full Keypad programming

Enter programming mode..

The unit is now in programming mode. Amber LED on the keypad should remain permanently on. 0000 is the default programming passcode.

Exit programming mode..

The unit should exit programming mode and the amber LED should start flashing again.

Enter a new ENGINEER/INSTALLERS code...

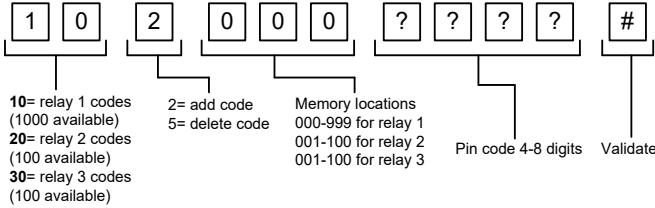
Go into programming mode firstly then enter the following sequence...

Location 4-8 digit code Validate

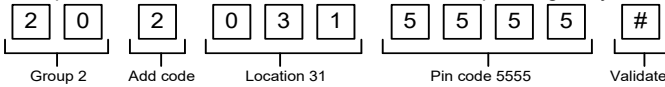
Replace ???? with your new ENGINEERS code.

Enter or delete new user/Homeowner codes

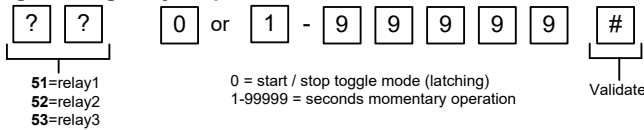
There are 3 groups of user codes. Group 10 for relay 1, group 20 for relay 2, and group 30 for relay 3. The programming sequence is shown below...



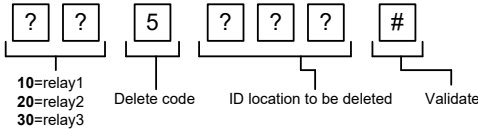
Example: Add user 31 to have access code 5555 operating relay 2....



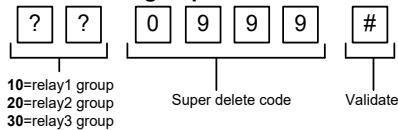
Programming relay output times and modes...



Delete a user code even if you don't know the code...

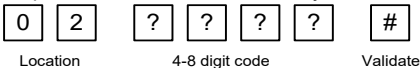


Delete an entire group of codes



Programming super user codes...

A super user code can activate any of the 3 relays



Restoring defaults

When in programming mode, you can enter the following sequence...

9 9 9 9 #

When the engineers/installers code is forgotten....

- 1) Wire a push button (or replicate with wire link) across the Egress terminal and (-)GND.
- 2) Switch off power for 1 minute.
- 3) Switch ON power.
- 4) during the first 60 seconds, press the EG button once to enable the function.
- 5) Enter the following code..

8 0 8 0 * *

The keypad should now be in programming mode, ready to accept new data. Change the installers/engineers code now as per instructions above.

Using the keypad

Using the standard codes...

Once you have exited out of programming mode, simply enter the user code.

Using super user codes

? ? ? ? # 1 Activate output 1

? ? ? ? # 2 Activate output 2

? ? ? ? # 3 Activate output 3

Troubleshooting

It is worth remembering that when you install this intercom, you are literally only supplying 25% of the overall system. The other 75% already exists with the customer. Namely the router, the wifi network, and the phones or devices.

Anything can go wrong with any part of that entire system. Therefore, it is a useful exercise to attempt to prove to the customer that the intercom hardware is working and operational before attempting to diagnose the root cause, especially when connected wirelessly to a network.

If the intercom is connected via wifi to the network, it is very useful to press and hold the code button on the board, then connect the phone DIRECTLY to the BELL wifi network (must be within wifi range of intercom). Open the app, and show the customer that when the phone is connected directly to the intercom, there is video and two way speech. The job is then to find out what part of the installation or overall system is causing the problem since the intercom hardware has been proven as operational.

We can say without doubt that when we do get hardware failures, the above process will not work and you will not get video and voice to the phone in a direct connection like this.

Below are the most common causes of problems with installs, starting with the most common first.

Problem/error	Symptoms caused	Solution
Wrong power cable (too thin) installed from 24v adaptor to the intercom, or power adaptor too far from intercom.	Delayed push notifications, video lag, voice problems, freezing, relays not opening the gate.	Change the power cable to specifications shown within this manual.
Additional user added incorrectly.	Can randomly display status "id already in use"	When an additional user was being added, the process was done incorrectly. Additional users MUST be added by the admin device first, with separate usernames created for each. The new usernames and passwords must be used by the new devices as shown in this manual to logon to the intercom.

Change History

Top version	Panel version	PCB version	Firmware version	IOS app version	Android app version
1	2	1.0	4.11.12.21.20171121	1	1

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Warranty Terms

To the original purchaser only:

FAAC International, Inc., warrants, for twenty-four (24) months from the date of invoice, the gate operator systems and other related systems and equipment manufactured by FAAC S.p.A. and distributed by FAAC International, Inc., to be free from defects in material and workmanship under normal use and service for which it was intended provided it has been properly installed and operated.

FAAC International, Inc.'s obligations under this warranty shall be limited to the repair or exchange of any part of parts manufactured by FAAC S.p.A. and distributed by FAAC International, Inc. Defective products must be returned to FAAC International, Inc., freight prepaid by purchaser, within the warranty period. Items returned will be repaired or replaced, at FAAC International, Inc.'s option, upon an examination of the product by FAAC International, Inc., which discloses, to the satisfaction of FAAC International, Inc., that the item is defective. FAAC International, Inc. will return the warranted item freight prepaid.

The products manufactured by FAAC S.p.A. and distributed by FAAC International, Inc., are not warranted to meet the specific requirements, if any, of safety codes of any particular state, municipality, or other jurisdiction, and neither FAAC S.p.A. or FAAC International, Inc., assume any risk or liability whatsoever resulting from the use thereof, whether used singly or in combination with other machines or apparatus.

Any products and parts not manufactured by FAAC S.p.A. and distributed by FAAC International, Inc., will carry only the warranty, if any, of the manufacturer. This warranty shall not apply to any products or parts thereof which have been repaired or altered, without FAAC International, Inc.'s written consent, outside of FAAC International, Inc.'s workshop, or altered in any way so as, in the judgment of FAAC International, Inc., to affect adversely the stability or reliability of the product(s) or has been subject to misuse, negligence, or accident, or has not been operated in accordance with FAAC International, Inc.'s or FAAC S.p.A.'s instructions or has been operated under conditions more severe than, or otherwise exceeding, those set forth in the specifications for such product(s).

Neither FAAC S.p.A. nor FAAC International, Inc., shall be liable for any loss or damage whatsoever resulting, directly or indirectly, from the use or loss of use of the product(s). Without limiting the foregoing, this exclusion from liability embraces a purchaser's expenses for downtime or for making up downtime, damages for which the purchaser may be liable to other persons, damages to property, and injury to or death of any persons.

FAAC S.p.A. or FAAC International, Inc., neither assumes nor authorizes any person to assume for them any other liability in connection with the sale or use of the products of FAAC S.p.A. or FAAC International, Inc. The warranty herein above set forth shall not be deemed to cover maintenance parts, including, but not limited to, hydraulic oil, filters, or the like. No agreement to replace or repair shall constitute an admission by FAAC S.p.A. or FAAC International, Inc., of any legal responsibility to effect such replacement, to make such repair, or otherwise. This limited warranty extends only to wholesale customers who buy directly through FAAC International, Inc.'s normal distribution channels. FAAC International, Inc., does not warrant its products to end consumers.

Consumers must inquire from their selling dealer as to the nature and extent of that dealer's warranty, if any. This warranty is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for use. This warranty shall not apply to products or any part thereof which have been subject to accident, negligence, alteration, abuse, or misuse or if damage was due to improper installation or use of improper power source, or if damage was caused by fire, flood, lightning, electrical power surge, explosion, wind storm, hail, aircraft or vehicles, vandalism, riot or civil commotion, or acts of God.

Regulatory Compliance



FCC Id: 2ALPX-WIFI-IBK

Grantee: Advanced Electronic Solutions Global Ltd

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Output power listed is conducted. This device must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance. This device has 20MHz and 40 MHz bandwidth modes.

EU-RED Declaration of Conformity

Manufacturer: Advanced Electronic Solutions Global Ltd

Address: Unit 4C, Kilcronagh Business Park, Cookstown, Co Tyrone, BT809HJ, United Kingdom

We/I declare, that the following equipment (Video intercom), part numbers:

Wifi-IBK, wifi-IB, wifi-ABK, wifi-AB, wifi-BD, wifi-BEK,
wifi-BEIK, wifi-Bei, wifi-BFT-KPAD



Complies with the following essential requirements:

EN 301 489-1 V2.2.0 (2017-03) (Electro-Magnetic compliance)

EN 301-489-17 V3.2.0 (2017-03) (Electro-Magnetic compliance)

EN 62479:2010 (Maximum output power)

EN60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 (Electrical Safety)

This product is not a complete product until fully installed. It is therefore considered a component part of an overall system. The installer is responsible to check that the end installation complies with local regulatory requirements. This equipment forms part of a "fixed installation"

