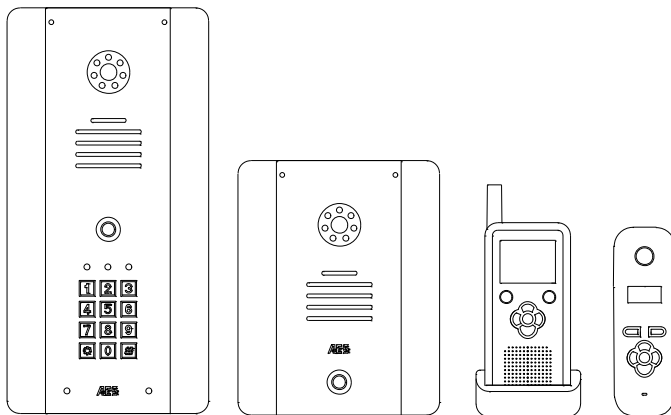


Installation & User Manual  
For  
**605 DECT+2.4G Intercom**



Wireless Video Intercom System

Models 605AB, 605ABK



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# Overview of System

Please read this entire manual before attempting to install this system.

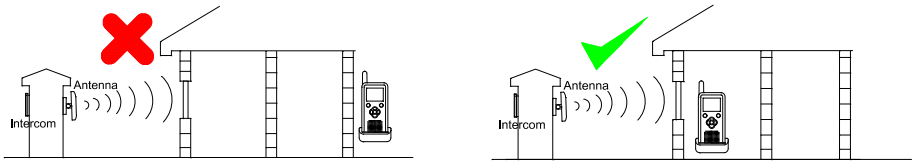
This system should only be installed by a professional automatic gate installer or access control specialist installer.

It is recommended that the system be range tested on site BEFORE being fully installed.

## Site Survey

Before installing this system, you need to be sure that the range of the system will be sufficient.

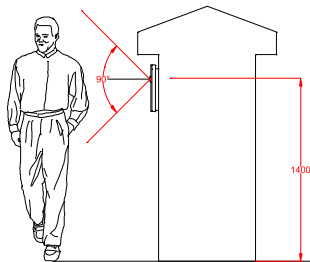
The transmitter and speech unit can be powered up, call button pressed, and then check that the handset will ring from all areas in which it will be used.



**Tip:** For longer range installations, locate the handset close to the front of the property, near a window if possible. Concrete walls can reduce the open air range of 350 metres by 30-50% per wall.

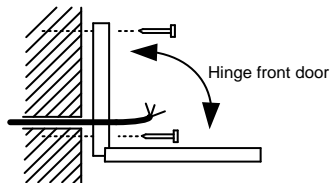
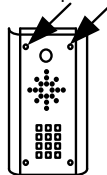
## Installation

Assuming satisfactory operation at full range, you are ready to fully install the product.



Mount the intercom at the desired height for pedestrian or car users. The camera angle is wide at 90 degrees to cover most scenarios.

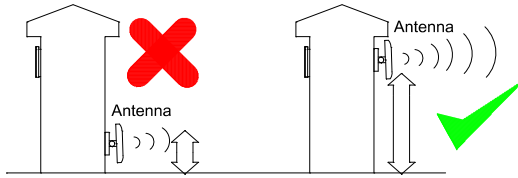
Loosen top 2 screws only



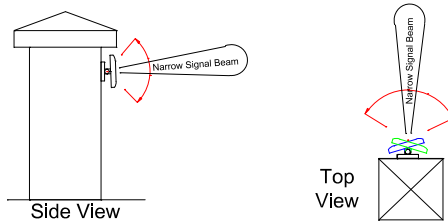
Side View

**Tip:** Do not drill holes in the wall with the intercom in position, otherwise dust may get around the camera window and impair the camera view.

## Mounting the Antenna



Mount the antenna as high as possible to achieve longest range.



**TIP:** Antenna beam width is approximately 40 degrees. For short range door intercoms, ask your distributor or dealer for an omni-pole type antenna with 360 degree beam angle.

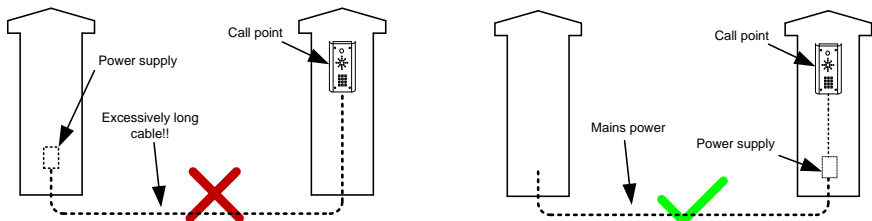
## Power Supply

**TIP: Most technical calls received are due to installers using CAT5 or alarm cable to power the unit. Neither are rated to carry enough power (1.5 amp peak). Please use following cable sizes...**

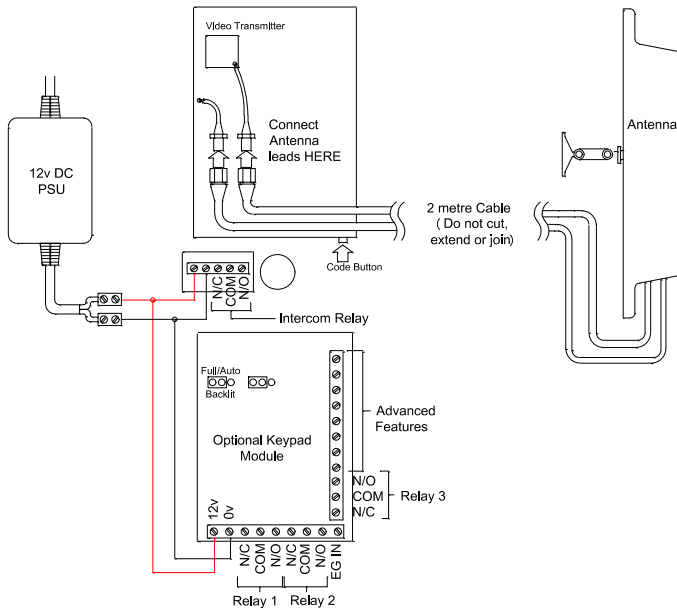
Up to 2 metres (6 feet) – Use minimum 0.75mm<sup>2</sup> (18 gauge)

Up to 4 metres (12 feet) – Use minimum 1mm<sup>2</sup> (16 gauge)

Up to 8 metres (24 feet) – Use minimum 1.5mm<sup>2</sup> (14 gauge)

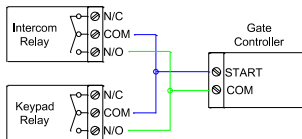


# Wiring

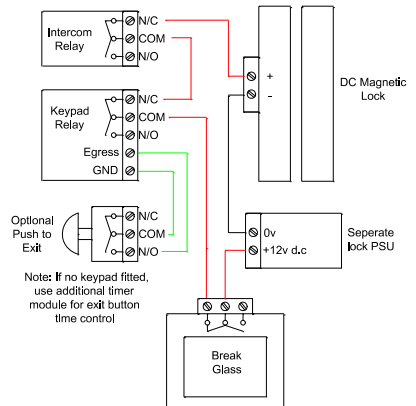


## Wiring Tips

Connection to Automatic Gates

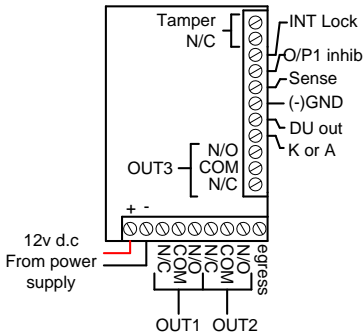


Connection to Magnetic Lock



**Note:** The manufacturer can only support the use, operation and functionality of the intercom and keypad themselves. Professional wiring to door release or automatic gate systems is the responsibility of the installer. Please consult a security integrator for further support.

# Advanced Keypad Connections



## Advanced connections

**INT Lock** – Used to operate a door in conjunction with another keypad. 24v dc max voltage, 100mA sink.

**O/P1 inhibit** – When closed, this disables all codes for relay group 1.

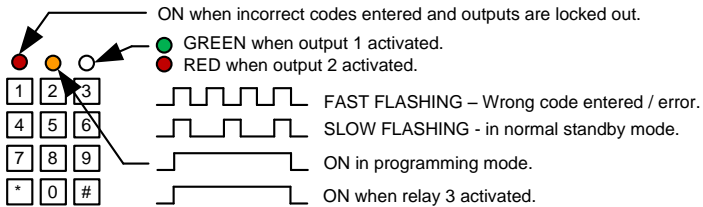
**Sense** – N/C connected to (-)GND, to be connected to N/C door contact. Can be used to generate door open or tamper alarm.

**DU out** – switches to (-) ground after the Duress Code is entered. Used to trigger alarm zone, or buzzer to notify guard. 100mA sink, 24VDC.

**K or A** – Not used.

## Keypad overview

This keypad has 3 outputs. 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!

## Basic Keypad Programming

### Quick start guide

1) Enter programming mode (amber LED should be ON)

0 0 0 0 \* \*

2) Enter a new user code...

1 0 2 0 0 0 ? ? ? ? #

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. So if using a 6 digit engineers code, then user codes must also be 6 digits long etc.

# Full Keypad programming

## Enter programming mode..

0 0 0 0 \* \*

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 ENGINEERS code...

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

0 1 ? ? ? ? #  
 Location 4-8 digit code Validate

Replace ???? with your new ENGINEERS code.

## Enter or delete new user 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...

1 0 2 0 0 0 ? ? ? ? #  
 10= relay 1 codes (1000 available)  
 20= relay 2 codes (100 available)  
 30= relay 3 codes (100 available)  
 2= add code  
 5= delete code  
 Memory locations  
 000-999 for relay 1  
 001-100 for relay 2  
 001-100 for relay 3  
 Pin code 4-8 digits Validate

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

2 0 2 0 3 1 5 5 5 5 #  
 Group 2 Add code Location 31 Pin code 5555 Validate

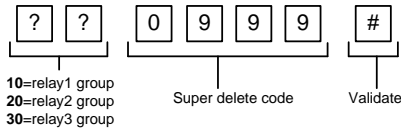
## Programming relay output times and modes...

? ? 0 or 1 - 9 9 9 9 9 #  
 51=relay1  
 52=relay2  
 53=relay3  
 0 = start / stop toggle mode (latching)  
 1-99999 = seconds momentary operation  
 Validate

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

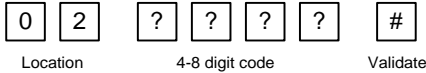
? ? 5 ? ? ? #  
 10=relay1  
 20=relay2  
 30=relay3  
 Delete code ID location to be deleted Validate

## Delete an entire group of codes



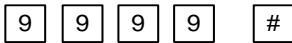
## Programming super user codes...

A super user code can activate any of the 3 relays



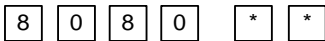
## Restoring defaults

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



## When the master 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..



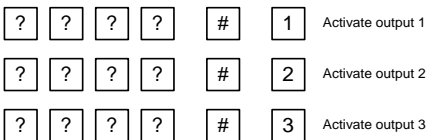
The keypad should now be in programming mode, ready to accept new data.

## Using the keypad

### Using the standard codes...

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

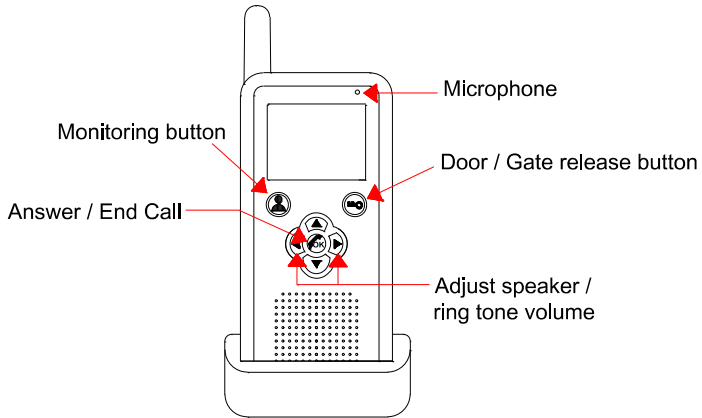
### Using super user codes





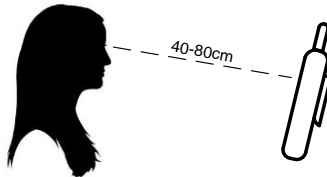
## The Video Handset

The handset should be charged for 8 hours before use. It is recommended to give it at least 1 hour charge before range testing.



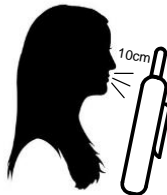
## Answering Calls

1. When the intercom calls, identify the visitor on the screen.




2. Press the OK button to answer the call.

3. Speak clearly into the top of the handset at a distance of 10-20cm.



4. During the call press < or > to increase or decrease volume.

5. Press  to activate door or gate release and press OK to end the call.


**Note: The video will remain active for 1 minute after the audio call is ended.**

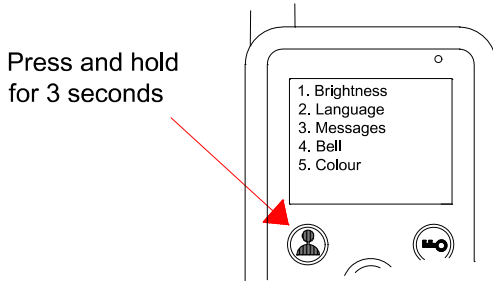
## New Voicemail

The handset will store up to 16 voicemails if missed callers decide to leave a message at the door / gate unit.

Press OK button to listen to a new voicemails.

## Settings

The following settings can be changed in the system. To make any of the following settings, put the system into monitoring mode by pressing and holding the  key for a few seconds.




1. Brightness – Adjusts screen brightness.
2. Language – Select English, French or German.
3. Messages – Listen to or delete saved or older voicemails. (press KEY to delete any message).
4. Bell – Change ring tone.
5. Colour – Increase or decrease screen colour.

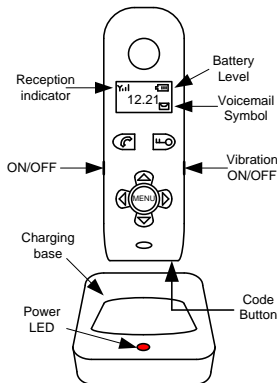
Use up and down arrows to navigate, and OK to select an option. Press right arrow to exit.

## Optional Audio Handset



The audio handset should be charged for 8 hours before use. It is recommended to give it at least 1 hour charge before range testing.

### Voicemail


When a call is not answered within 40 seconds, the visitor can leave a message. Once complete, the handset will display the  symbol. The unit can store up to 16 messages.








### Change Ring Volume

Press  and  to increase and decrease ring volume and press MENU to save.

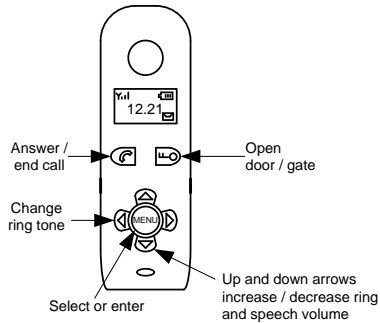
### Change Ring Tone

Press  and the handset will ring with its currently selected tone.

Press  and  to cycle through available ring tones and press MENU to select and save.

To listen to voicemail, press MENU to play. If there are more than 1 message, press  and  to select the message required and press MENU to play.  = Delete. Long press = delete all.

## Using the Audio Handset

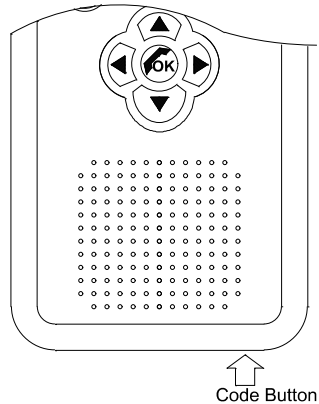
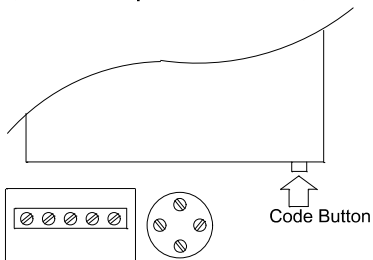


## Re-coding the Handsets / Adding an Extra Handset

Occasionally a system may need re-coded when it arrives on site. If the handset does not ring when the call button is pressed, please perform the following steps..

1. Press and hold the code button on the speech panel as shown for 3 seconds.
2. Press and hold the code button on the handset (use a fine object like ball point pen) for up to 10 seconds.
3. While holding, the handset should bleep once, then bleep again, then emit a melody confirmation tone.

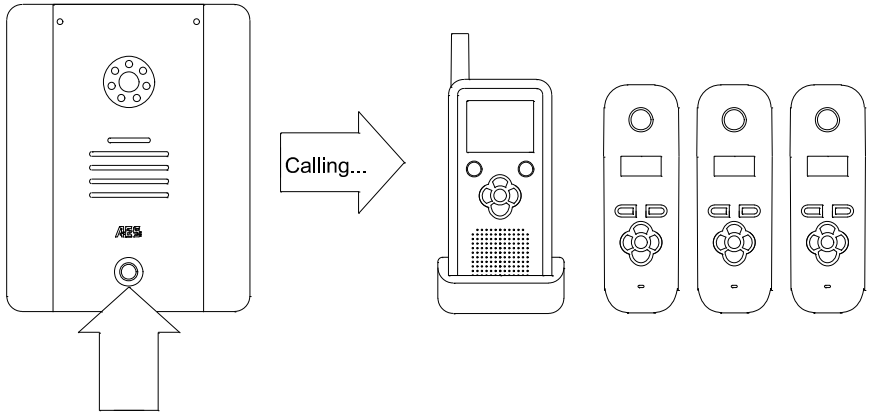
( Inside Speech Panel)



Once the melody is heard, the handset should then be working. The system should now be ready for testing.

## Testing

1. Press the call button on the intercom and all coded handsets should ring (max 4 handsets).



2. Answer the call on any handset and adjust speech volume while on the call as per instructions.
3. Activate the door or gate release and check the relay activates.

## Adjusting time on Audio Handset

Press MENU for more than 2 seconds, and then use up and down arrow keys to set hour. Press MENU again to cycle to minutes and adjust. Press MENU once more to end the process.

## Maintenance of the Intercom

The stainless steel can dull or discolour over time in weather conditions or in winter if exposed to road salt. This can be polished with a suitable stainless steel cleaner or re-brushed with an abrasive pad or sand paper, observing the directionality of the grain.. Take care when cleaning the acrylic face. This should be gently wiped with a soft damp cloth to prevent scratching.

# Troubleshooting guide

## **Q. The unit will not ring the handset.**

- A. Try re-coding the handset and transmitter as per instructions.
- Check push button wiring to the transmitter with multi-meter.
  - Check power cable distance from power adaptor to transmitter is less than 4 metres.

## **Q. The person on the handset can hear interference on the call.**

- A. Check cable distance between the speech unit and transmitter. Shorten this if possible.
- Check cable used between the speech unit and transmitter is screened CAT5.
  - Check that the screen of the CAT5 is connected to ground in the transmitter as per wiring instructions.

## **Q. Keypad code not operating the gate or door**

- A. Check if the corresponding relay indicator light comes on. If it does, then the fault is either a power problem with excessive cable run, or wiring. If the relay can be heard clicking, then it is a wiring problem. If a click cannot be heard, then it is likely a power problem. If the light does not activate and the keypad emits an error tone, then the issue is likely a programming error.

## **Q. My handset will not recode**

- Try the process again. If it still does not work, delete the code from the transmitter. To delete code, press the code button for 3 seconds and release. Then press it 7 times after which a tone should be heard. Then press another 7 times. Now try re-coding the handset again as per the procedure.

## **Q. Range problem – Handset works beside the intercom, but not from inside the building**

- A. Check that the power cable to the transmitter is within guidelines and is heavy enough gauge. Insufficient power cabling will reduce transmission power! Check that there are not excessive objects blocking the signal, like large dense shrubs, vehicles, foil lined wall insulation etc. Try to achieve line of sight between both devices.

## **Q. No speech in either direction**

- A. Check CAT5 wiring between speech panel and transmitter. Disconnect, re-strip cables and re-connect again.

## **Q. Handset will not charge**

- A. Try replacing both batteries with equivalent Ni-Mh batteries firstly. It is possible to have a dead cell in a battery which can prevent both batteries from charging.
- Check for contamination or grease on the charging pins at the base of the handset (gently scratch with screwdriver or wire wool).

## **Q. The unit will not power up / there is a short circuit on the power supply**

- A. This can be caused by the inbuilt surge protection being short circuited due to a surge, over voltage, or wiring fault. Disconnect all wiring, check, and re-wire again. If the fault still appears, contact your dealer for service.





