

smartentry



Wireless Video Doorphone

User Manual

Contents

Precautions	3
1. Product Overview	4
1.1. Product Features	4
1.2. Contents	4
1.3. Inserting the Battery	4
2. Using the smartentry	8
2.1. Indoor Handset Monitor	8
2.2. Outdoor Camera	9
3. General Use	10
3.1. Observation View	10
3.2. Automatic Visitor Images	10
3.3. Tamper Alarm	10
3.4. Pairing Handset & Door Bell	11
3.5. Adding Multiple Units	12
4. Specifications	13
5. Troubleshooting	15

Precautions

Thank you for purchasing the smartentry Door Entry System.

Before installing your new system, please read the instructions carefully.

- Please charge the batteries for a minimum of 10 hours for the first time.
- The smartentry accepts a power adapter and battery power, both can work at the same time. When the smartentry is powered by the battery and power adapter at the same time, the battery will automatically charge when the power is low.

Battery & Charger Warning

1. Only use the original charger and original batteries in your smartentry hardware.
2. Do not open the handset or outdoor phone as this may damage the product.
3. Do not crush or puncture the battery. Avoid exposing the battery to high external pressure, which can lead to an internal short circuit and overheating.
4. Keep the battery away from extreme heat or fire
5. Keep the handset away from areas where there is high condensation and water environments.

Safety Instructions

1. Please install your system according to this manual to avoid any malfunctions or damage.
2. Never open the smartentry, please contact your installer or place of purchase in the event of product malfunction.
3. Place the handset in a dust free, dry and well ventilated room and avoid direct sunlight.
4. Keep the handsets away from heat sources and water.
5. Never use any cleaning chemicals or wet cloth to clean the handset. Only use a dry, clean and soft cloth/micro fibre cloth.
6. Do not use the product in places where there are explosive hazards
7. Do not drop the handset or submit to heavy shaking
8. Keep chargers and power supplies away from liquids
9. Use your handset in temperature between -20 and 70° C
10. Storage temperature must be between -20 and 70° C

1. Product Overview

1.1 Product Features

- 2.5" TFT LCD Monitor
- Rechargeable battery
- Audio & Video transmission in real-time
- Unlock Function
- Anti-theft tamper alarm function
- 10 picture storage
- Weatherproof Outdoor camera
- IR LED's for Night Vision

1.2 Contents



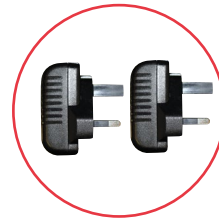
1x Wireless Handset



1x Wireless Door Entry Unit



1x Charging Station



2x Plug Adaptors



1x 1m USB A to USB Mini B Cable (for Charging Station)



1x 1m USB to Fly Lead (for Outdoor Unit)



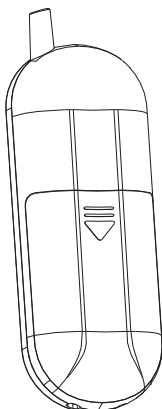
1x User Manual



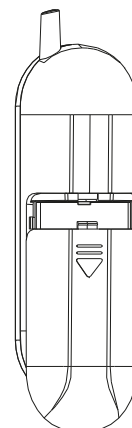
4x Screws
4x Wall Plugs

1.3 Inserting the Battery

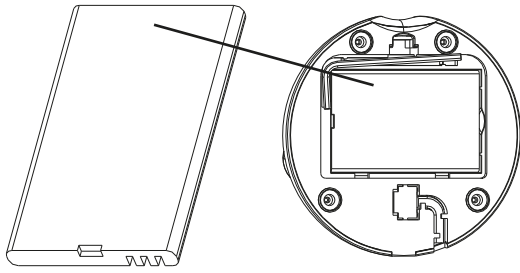
Hand Set



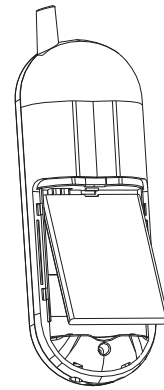
1. Turn the smartentry unit around.



2. Place your finger over the arrow. Push the back panel in and then slide down to open.



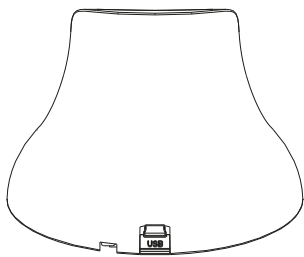
3. Locate the battery at the bottom of the charging station.



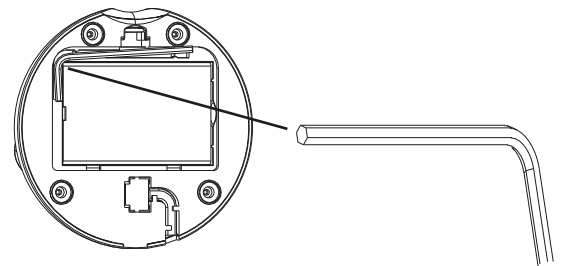
4. Insert the battery with contacts facing the top and insert at an angle (shown above) and push in.

When inserted, put the back panel back onto the handset.

Charging Station

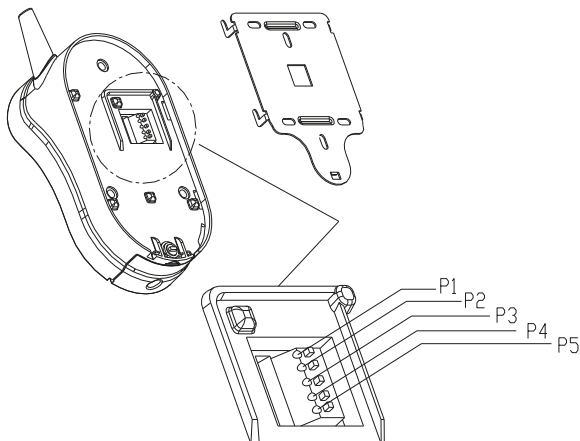


1. Rear view of the base station showing it's USB connector. This can be used to charge your handset's battery.



2. If you look at the bottom of the base station there is an Allen Key, this is used to open the outdoor camera battery holder.

Outdoor Camera Installation & Power Lock Connection



Back Wiring Diagram

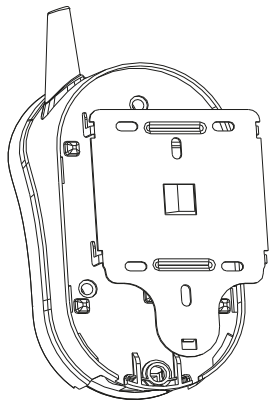
You will need to drill a hole in your mounting area for the cable to run through.

Please note that the NO, NC and Common are for an electric door release (not provided) and will require additional power. Please refer to the manual for the electronic door release.

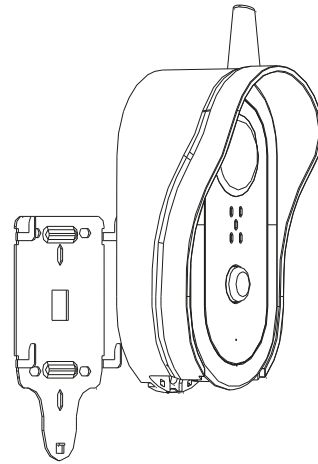
P1: 5V Power Supply Positive
P4: Common

P2: 5V Power Supply Negative
P5: Relay Open (NO)

P3: Relay Closed (NC)

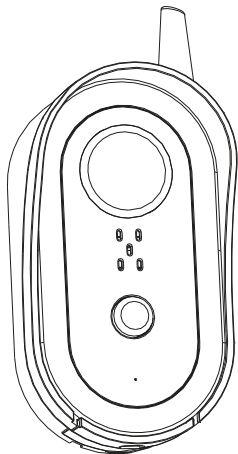


1. Locate the mounting plate. Then, mark out the holes to attach the unit and also a centre hole where cables will run through.

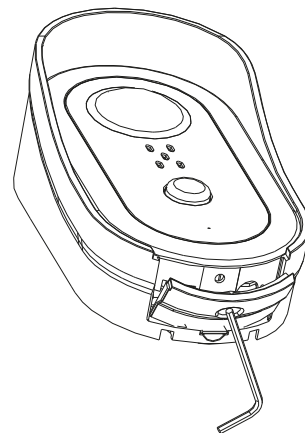


2. Fix the mounting plate on the wall and attached door entry camera to the mounting plate using the screws provided.

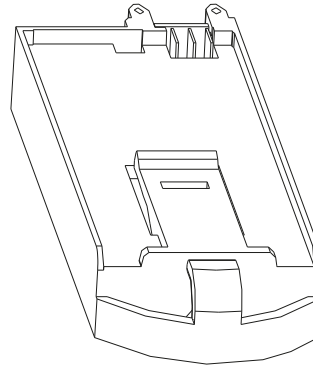
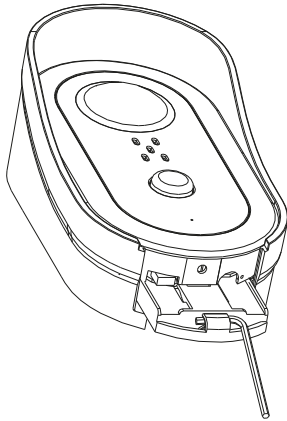
How to change the battery on the Outdoor Camera



1. Front View



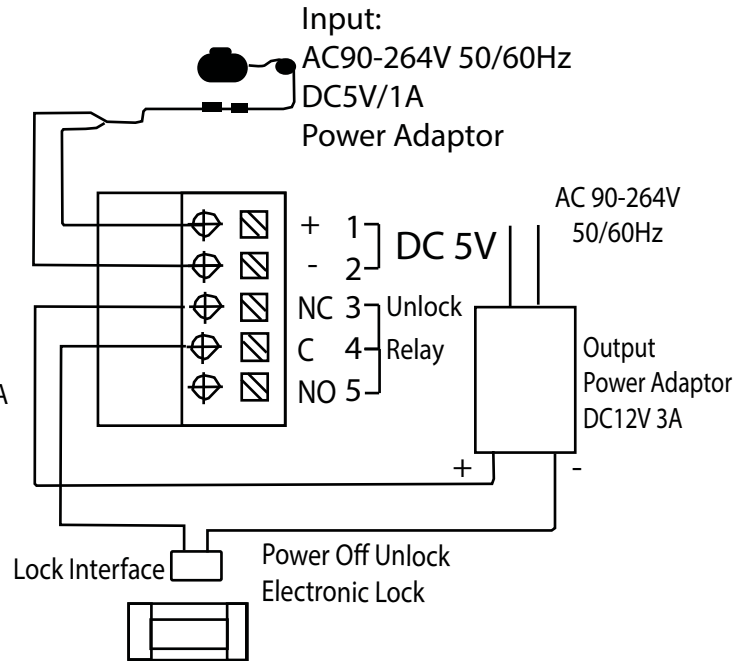
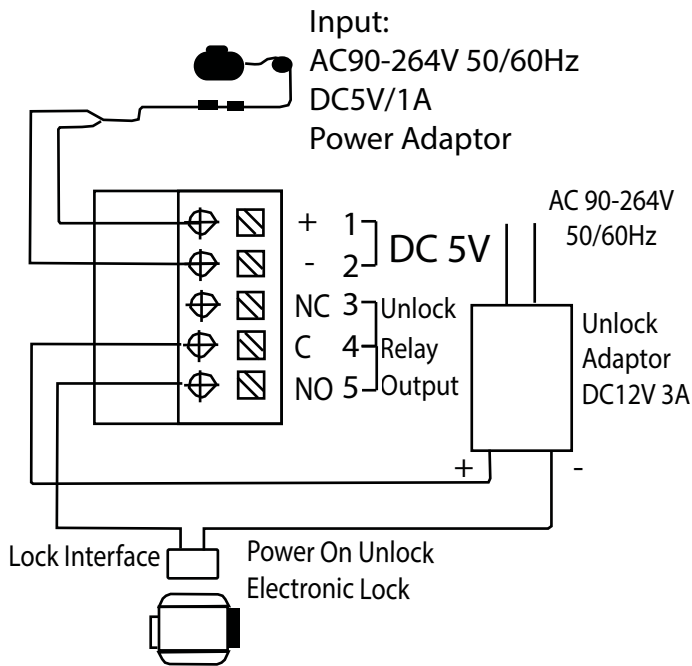
2. Using the allen key located in the bottom of the charging station, open the bottom of the base of the outdoor camera.



3. Slide the battery box out of the unit.

4. To re-insert the battery or a new one, slide the battery back into the unit and then lock the base of the unit using the allen key.

Outside Camera Connection Guide



2. Using the smartentry

2.1 Indoor Handset Monitor



Handset Button Descriptions



On/Off/Call/Confirm

1. Answer the call of a visitor or end a conversation.
2. Press and hold this button for three seconds to power on or power off.
3. In any mode press and hold this button for 8 seconds to restore to factory default settings.
4. Once in the 'Options' menu, use this button to confirm selections.



Monitor

1. In standby mode, press this button to view the outdoor monitor. Press the button for a second time to cancel this view. Please note that the outdoor unit needs to be wired to a permanent power source for this feature to work.
2. During a conversation, press this button to switch between 'Video & Audio' and 'Audio Only' mode.
3. After entering the 'Options menu', press this button to exit.



Preview

1. In standby mode, press this button to view the visitor history images.
2. When viewing image history, use this button to scroll up through the images.



Unlock

1. When a visitor calls, you can use this button to unlock the electronic lock on your door if you have one pre-fitted.
2. When viewing image history, use this button to scroll down through the images.
3. When the handset is connected to the charging station or computer (using USB), press this button to go to the 'Options' menu.

Handset Indicator Description

Standby: Blue light will flash every 4 seconds

Low Power: Blue light will flash every second.

Charging: Red light will flash every 4 seconds. The screen displays the battery charging symbol.

Full Power: Red light is on constant, the screen will display the battery full symbol.

Low Power of outdoor monitor: Screen will display 'OUT LOW POWER'.

Calling: Both red and blue light will be on.

2.2 Outdoor Camera



Clear code button/
Stop tamper alarm

The close-up image shows a small, circular button with a clear lens, located on the bottom of the handset. A red line connects this button to the text label.

Camera Description

Call Button: Visitors can press this button to call the handset.

Infrared Camera: The camera will activate as soon as the visitor presses the button. The Infrared LED's on the camera will activate automatically when in low light.





Outdoor Monitor Indicator Description

Standby: When supplied by external power, the blue light will flash 4 times per second. If supplied by battery, the light will not flash.




Calling: Blue light will be on constantly.

Low Battery: Blue light will flash every second. The screen on the handset will display 'OUT LOW POWER'.



3. General Use


1. When a visitor presses the outside doorbell, the internal handset will ring.
2. When the handset is ringing, press the  button to answer the call within 40 seconds. If the call is not answered, the unit will make one beep sound and save the visitor image. The maximum talk time, if answered, is 120 seconds.
3. When you answer the call the handset will be in 'Audio Mode', you can press the  button to switch to 'Video Mode'. The video call will last for 7 seconds.
4. During the conversation you can unlock the door by pressing the  button. (This will only work if you have connected an electronic door lock). (Not supplied)
5. Pressing the  button will end the conversation and the system will return to standby mode.

3.1 Observation View

1. In standby mode, press the  button to view outside through the camera, even when there is nobody at the door. When doing this, the handset screen will display 'MONITOR'.
2. Press the  button to select 'TALK ON' or 'TALK OFF'.
3. Press the  button to exit.

3.2 Automatic Visitor Images

The system will automatically save images of visitors when they call. In standby mode, press the  or  buttons to view the image history.


The  image indicates that you have a new visitor in the image history.

The unit will store 10 visitor images before overwriting the oldest one.

PLEASE NOTE: If you remove the battery or the battery runs out, you will lose all stored images.

3.3 Tamper Alarm









If the outdoor unit is tampered with, it will sound an alarm to alert you. You can clear this alarm in 2 ways:

1. Press the  button.
2. Press the clear mode button on the base of the camera, shown on the base image on page 9.

3.4 Pairing Handset & Door Bell

The SMARTENTRY system has been setup and paired for you. However, should you purchase any additional handsets or monitors or need to pair them again, please follow the steps below.





Clear Pairing Code (Handset)

1. Make sure the handset has at least 50% battery. The handset will need to either be in the charging station, or powered by USB to enter the menu.
2. Press the  button to enter the 'Options' menu and then press the  or  buttons to go to the clear code menu. Then, press  to confirm the 'CLEAR CODE' command.
3. Input the correct password (Default is 0000) by using the  or  buttons. When entering the password, press the  to move position.
4. Press the  button to confirm clear code.
5. Once the screen displays 'Clear code succeeded', move on to the next section.

Clear Pairing Code (Outside Camera Unit)

1. Use the allen key found in the bottom of the charging station and remove the bottom panel from the outside unit.
2. Remove the battery box.
3. Use the top of the allen key to press and hold the 'Clear Code' (shown on page 9) button for about 10 seconds. At the same time, put the battery box back into the unit.
4. Keep the button pressed until you hear 2 double beep sounds and then you can release the button.
5. After releasing the button, wait until the outside camera unit beeps 3 times. When it has done this, you can move on to the next section.

Match Codes







1. Firstly, press the  button on the handset to enter the main menu.
2. Press the  or  buttons to go to the match code menu. Then press the  to confirm the 'Match Code'.
3. Press and hold the 'clear code' button of the outdoor camera unit. Press for around 5 seconds until the unit beeps twice. Then release the button and the outdoor unit will automatically go to 'Match Code' mode.
4. If coding is successful, the outdoor unit sounds three times and the handset will go into the standby mode. Then, reboot both units and they should be paired.

3.5 Adding Multiple Units




To add more handsets and outside cameras together, please follow the steps below.

Firstly, clear the codes on the new handset or camera. This is shown in the previous section.

ADD a new Handset

1. Access the 'Options' menu on the already paired Handset by pressing the  button. Use the  button to navigate down to the 'Give Code' option and press the  button to confirm. The screen will show 'Giving Screen Status'.
2. On the new handset, press the  button to open the 'Options' menu. Use the  button to navigate down to the 'Receive Code' option and press the  button to confirm. The screen will display 'Match Code Succeeded', if it has found the other handset.

ADD a new Outdoor Monitor

1. Access the 'Options' menu on the already paired Handset by pressing the  button. Use the  button to navigate down to the 'Give Code' option and press the  button to confirm. The screen will show 'Giving Screen Status'.
2. On the new outdoor unit, press and hold the 'Clear Code' button under the screw flap. Please note that the unit has to be powered, so please do not remove the battery. Press the button for around 5 seconds until you hear a double beep sound. Release the button, and the unit will automatically go to 'Match Code' mode.

If the above fails, please repeat the steps. If successful, power cycle all the units and test.

4. Specifications

smartentry (Indoor Monitor) Specifications	
External Power	5V 1000mA
Li-ion Battery Power	3.7V 1400mA
Shutdown Current	200UA
Average Working Current	260mA
Standby Current	4-8mA
Working Voltage	USB 5V (External Power) 3.7V-4.2V (Li-ion battery power)
Transmission Power	18-20dBm
Receive Sensitivity	-100dBm
Charging Current	600mA
Charging Time	3 Hours
Operating Temperature	-20~70°C
Transmission Distance (Line of Sight)	500m (Audio) 300m (Video & Audio)

smartentry (Outdoor Camera) Specifications

External Power	5V 1000mA
Li-ion Battery Power	3.7V 1400mA
Shutdown Current	0mA
Average Working Current	340mA
Standby Current	15-18mA (External Power) 0mA (Li-ion battery power)
Working Voltage	DC 5V (External Power) 3.7V-4.2V (Li-ion battery power)
Transmission Power	18-20dBm
Receive Sensitivity	-100dBm
Charging Current	600mA
Charging Time	3 Hours
Operating Temperature	-20~70°C
Transmission Distance (Line of Sight)	500m (Audio) 300m (Video & Audio)

smartentry (Charging Station) Specifications

External Power	USB 5V
Charging Current	200mA
Operating Temperature	-20~70°C

5. Troubleshooting

Problem	Check	Solution
Sound/Image is intermittent	Check if there is enough power going to the unit.	Recharge or replace the battery.
	Check if the units are outside of the workable range	Move the units within the 500/300m line of sight.
No Communication	Check if there is enough power going to the unit.	Recharge or replace the battery or replace external power.
	Check if the codes are clear on the units and they are paired.	Match the codes again.
Can't unlock the door	Check the connection of the lock on the door.	Re-connect the door lock.
	Check if the lock is faulty	If faultly, replace the lock.

Radio Signal

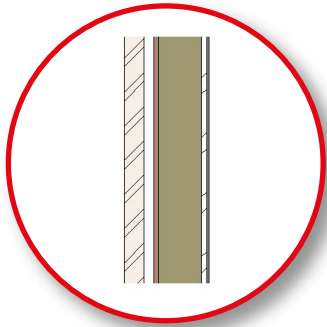
Propagation of radio waves or radio frequency are used for wireless communication between outdoor and indoor stations.

The performance of wireless communication depends on the environment where it is installed. Radio coverage quality will be affected by possible blockage between transmitter and receiver. These can include walls, concrete, metal (Armored doors, elevator shafts etc), plasterboard, wood and various other materials.

Please note that not only visible obstructions can affect the wireless quality. Interference can also come from electric or electromagnetic devices such as wireless routers, microwave ovens, TV's and similar devices. The smartentry operates on 2.4GHz frequency. You can help minimize interference by changing the WIFI channel on your wireless router (Please refer to your router's user manual for information on this). We also recommend you to test the system before deciding your final installation position

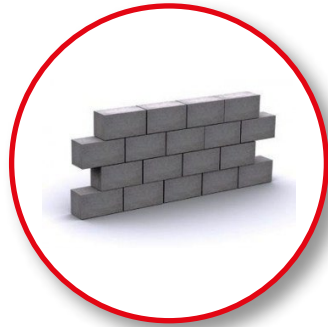
It is important to test the wireless coverage on site before installing the smartentry.

Please see the following page for some examples of materials how they affect the wireless signal.



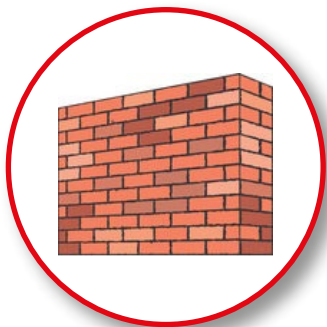
Plasterboard & Wood

10-30% signal reduction



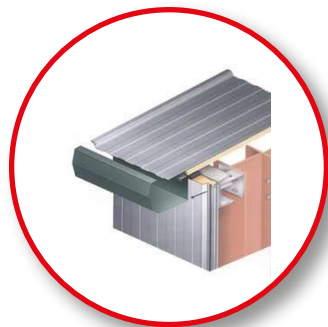
Brick

30-50% signal reduction



Concrete & Building Blocks

50-70% signal reduction



Metal & Metal Cladding

70-90% signal reduction

PLEASE NOTE: Before mounting any piece of the smartentry, please test the unit.

Manufactured for:



Smart-i, Unit 2 Valley Point, Beddington Farm Road, Croydon Surrey CR0 4WP