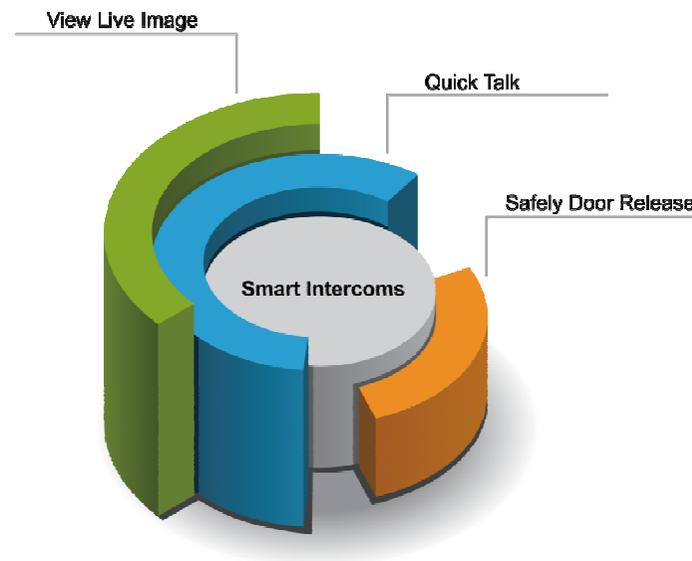

Smart Bell

Quick User Guide – Full version

- Important index:
 1. SmartBell software application
 2. Static / Dynamic IP configurations and connections



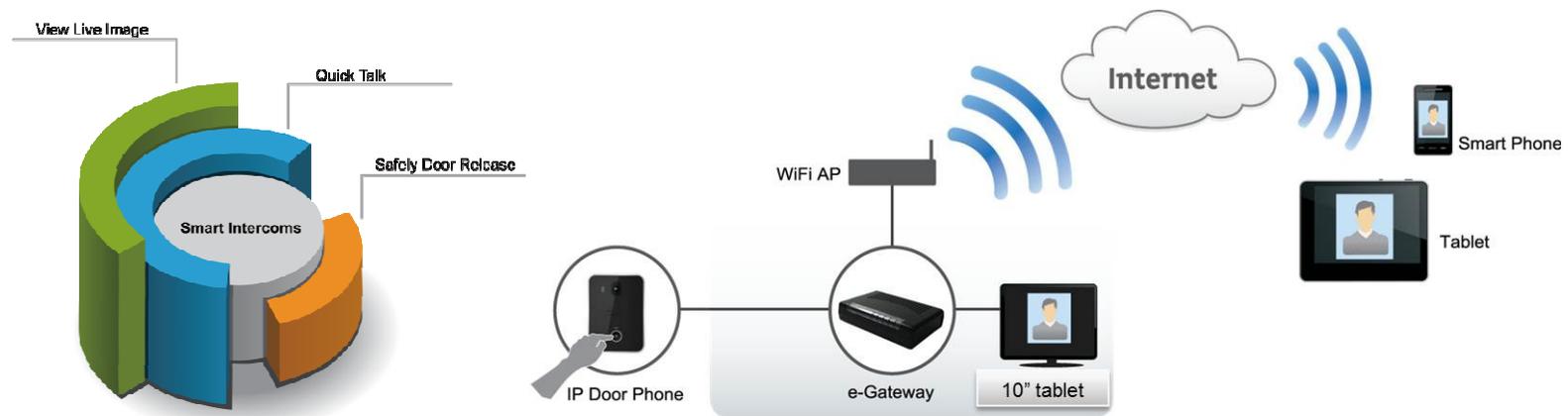
Thank you for selecting Smart Bell for your communication and security needs. .
Please read this manual carefully before installation and keep it in a safe place for future reference.

Index

- Introduction 3
- Smart Bell software application 11
- Smart Bell System Architecture 34
- System Installation 40
 - WiFi Setup 40
 - E-Gateway Setup 49
 - Device Installation (IP5813, IP5800) 53
 - Devices Pairing (IP5800, IP2032, Android and iOS) 78
- Index 1: Smart Bell software application 124
- Index 2: DDNS IP configurations and connections 147
- Index 3: Third party Security System Integration 159

Turn your Smart Phone/Tablet into intercoms

- Turn Your Smart Phone/Tablet into intercoms
- Key features:
 - **Control intercom on Wi-Fi/WAN networks.**
 - **Listen to activity for secure, discreet monitoring.**
 - **Quick door release from safely inside building or anywhere.**
 - **Simply click on Talk & Monitor to communicate with door phone station.**



General Precautions



- Keep the unit more than 1 m (3.3') away from radio or TV.
- Keep the intercom wires more than 30cm (12") away from AC100-240V wiring. AC induced noise and/or unit malfunction could result.
- Install the unit in an area that will be accessible for future inspections, repairs, and maintenance.
- As to other manufacturer's devices (such as door releases) used with this system, comply with the Specifications and Warranty conditions that the manufacturers or venders present.
- If the unit is down or does not operate properly, unplug the power supply.
- The unit can be damaged if dropped. Handle with care.
- The unit turns inoperative during power failure.
- In areas where broadcasting station antennas are close by, the intercom system may be affected by radio frequency interference.
- All the units is designed for indoor use only. Do not use outdoor.
- This product, being a control unit of door release, should not be used as a crime prevention device.
- It must be noted in advance that the LCD panel, though manufactured with very high precision techniques, inevitably will have a very small portion of its picture elements always lit or not lit at all. This is not considered a unit malfunction.
- Door station is not weather-resistant, and do not spray with high pressure water. Unit trouble could result.
- For wiring, specify CAT5e straight cable.
- Due to the environmental sound around the unit, it may hinder smooth communication, but this is not a malfunction.
- When outside temperature lowers sharply after rainfall, etc., the inside of camera may fog up slightly, causing a blurry picture, but this is not a malfunction. Normal operation will be restored when moisture evaporates.
- Do not locate the units in a location with restricted access. It impedes maintenance inspection or repairs. Also, unit trouble could result.

System configurations and connections



- The system is a video intercom system especially designed for applications in facilities such as office buildings, factories, schools, hospitals.
- Installed separately from conventional general-purpose internal communications systems, the system can be used as:
 - a video door entry system,
 - emergency announcement system,
 - rescue assistance system, urgent call system,
 - public announcement system, and access control system.
- The system can be constructed on an IP network so multiple sites of system can be connected and controlled as a global system. You can design the system to any scale depending on your needs.

Indoor Phone and Outdoor Phone connection

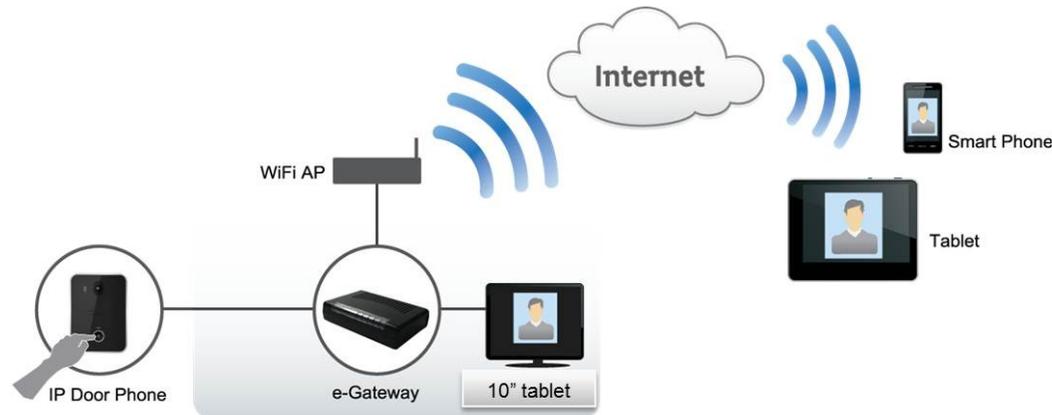
- To use the CAT5e cable as the linkage wire for indoor phone, outdoor phone and e-Gateway adapter. Resistance of CAT5e < 0.094 Ohm/m.
- e-Gateway adapter: 12V-24V,2A-1A
- Conventional rule :
 - Power supply by e-Gateway for 12V/2A DC, distance is less or equal than 30 meters.
 - Power supply by e-Gateway for 24V/1A DC, distance is less or equal than 100 meters.
 - **When the link distance is over 100 meters far, it must be provided power by external power adapter, and an individual switch/hub is required for connection between outdoor/indoor phone and e-Gateway.**

Notice



- We will under no conditions be liable for:
 - damage that occurs due to failures in network equipment; failures due to internet providers and cell phone companies; failures such as disconnected lines and other losses in communication, which render it impossible to provide this service or in any way delay this service due to causes outside of our responsibility; or if an error or missing data occurs during transmission.
 - damage that occurs due to the inability to communicate due to malfunctions, problems, or operational errors in this product.
 - damage caused if a customer's password or transmitted information are leaked through bugging or unlawful computer access over Internet communication.
 - any damages or losses resulting from this product's contents or specifications.
- Please note that:
 - images depicted in this manual may differ from the actual images.
 - this manual may be revised or changed without prior notice.
 - product specifications may be changed for the sake of improvement without prior notice.
 - it is the customer's responsibility to ensure that their computer is secure. We will under no conditions be liable for security failures.
- This system is not intended for life support or crime prevention.
- It is just a supplementary means of conveying information. We will under no conditions be liable for loss of life or property which occurs while the system is being operated.

Usability



- Scenarios:
 - Visitor presses door phone, Image displayed to display & talk units.
 - Owner listen to activity for secure, discreet monitoring.
 - Click on Talk & Monitor to communicate with door phone.
 - Quick door release from safely inside building or anywhere.
- Connectivity:
 - Network penetration over PPPoE/DDNS configuration.
 - System integration via IP address/ASCII command.
 - Accessible in anywhere via the internet and 3G connectivity.
 - Applicable in multi OS (iOS, Android) with mobile devices(Smart phone & tablet).
 - Easy installation and maintenance free.
 - Control intercom on Wi-Fi/WAN networks.

Professional Smart Bell portable demo package

Case	<ul style="list-style-type: none"> • Power source 110 – 220V • Super Aluminum frame tool case 40cm x 30cm x 15cm (L x W x H) 	
Software	<ul style="list-style-type: none"> • Software package ON-THE-GO for Smart Bell operation 	
Operation scenarios	<ul style="list-style-type: none"> • Visitor presses door phone • Video & audio are transfer via networks to display and talk device • User can pickup the call, view video from any one of the devices and safely door release. (IP 2032 room station is a talk unit only) 	
Components	<ul style="list-style-type: none"> • Door station (IP 5813) x 1 • Master station(10" IP 5800) x 1 • Central control unit (IP 5858) x 1 • Mobile2door App (For iPhone/Android Smart phone) • Room Station (IP2032) 	<ul style="list-style-type: none"> • Wi-Fi access point x 1
Delivery lead time	<ul style="list-style-type: none"> • 2 weeks (payment confirmation in advance) 	



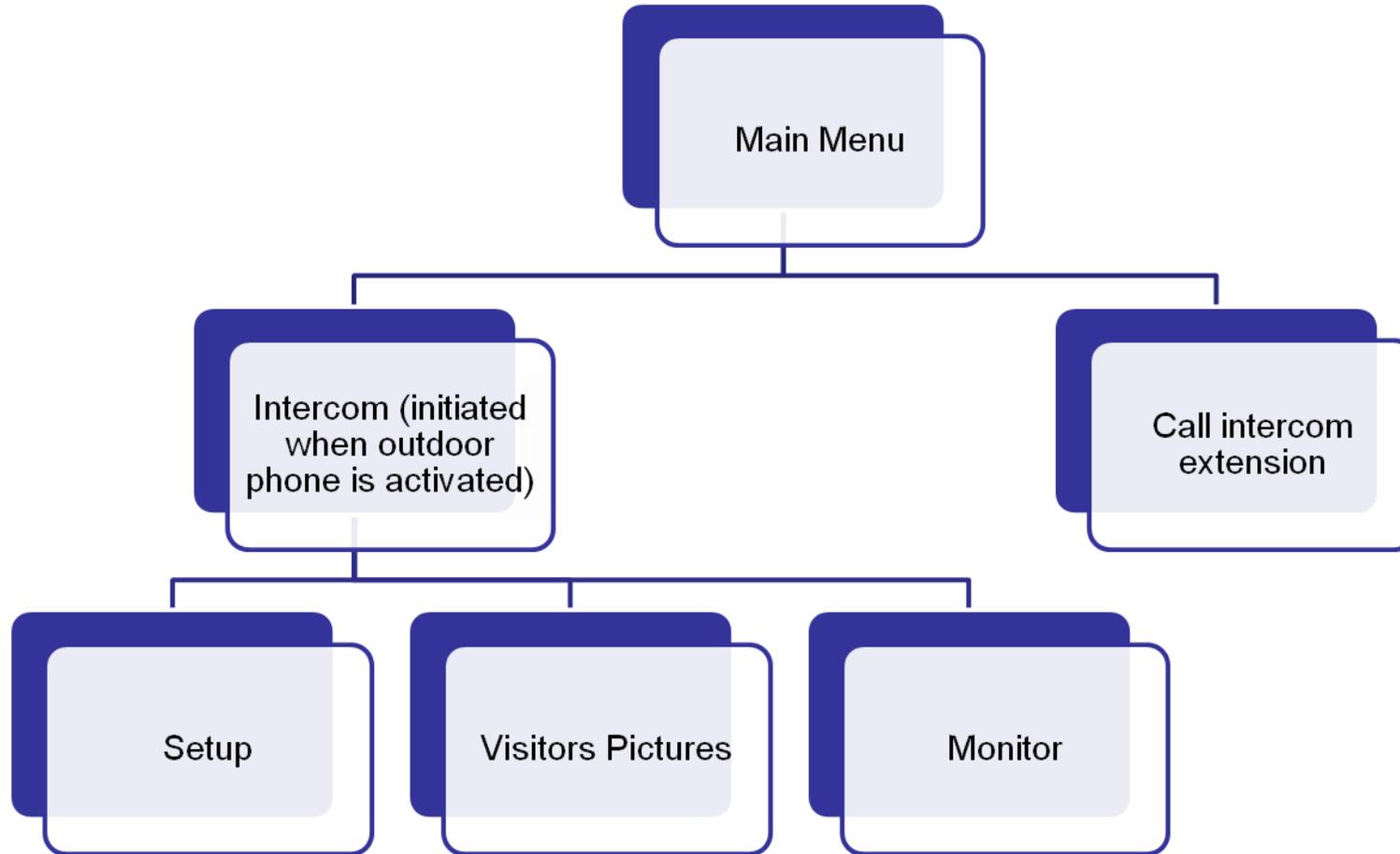
Note

Main Page of Smart Bell App



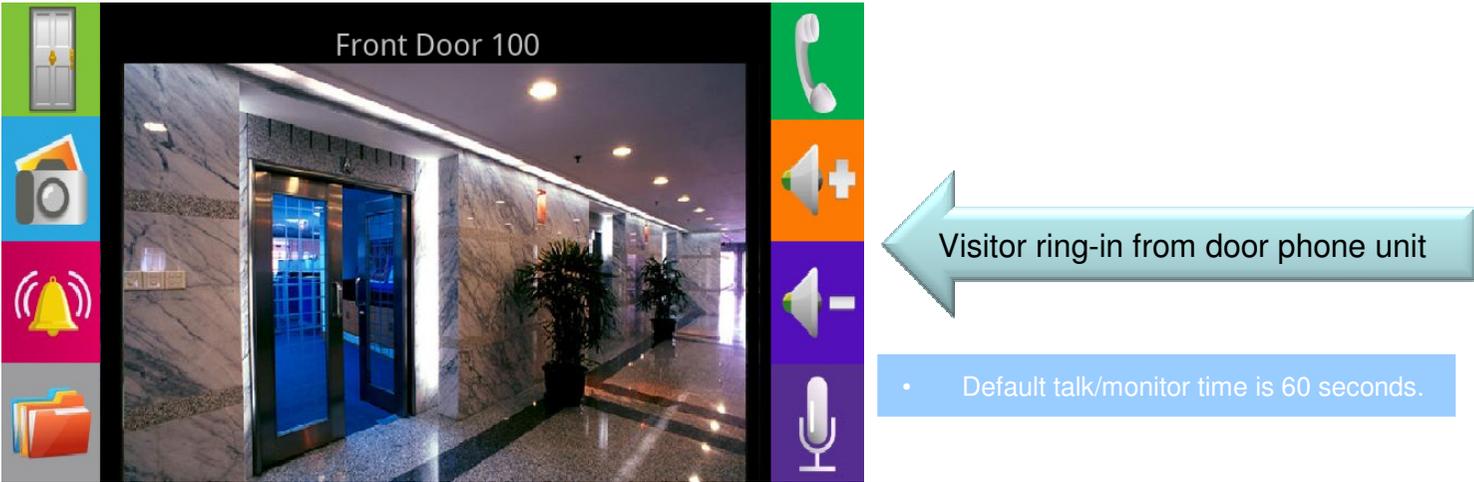
- **Call Extension**
Talk to other Smart phone/Indoor phone without video
- **Monitor**
Audio and video monitoring for door phone
- **Visitors Pictures**
Visitor pictures tracking
- **SETUP**
System settings

Function chart



- Default talk/monitor time is 60 seconds.

Intercom for Master station 10" tablet IP-5800



- | | | | |
|---|--|---|---------------------|
|  | •DOOR OPEN |  | •Pickup Call |
|  | •Image Capturing |  | •End the Call |
|  | •DOOR CHIME ON |  | •VOL.+ |
|  | •DOOR CHIME OFF
=>The functions VOL.+ , VOL.- and MUTE
will be disabled while ring-in. |  | •VOL.- |
|  | •Back to MAIN MENU |  | •Mute OFF |
| | |  | •Mute ON (No voice) |

Intercom for Smart phone & tablet

Front Door 100

- Image Capturing
- DOOR OPEN
- Pick up Call

Visitor ring-in from door phone unit

• The Speaker/Handset switch function only is for smart phone/iPhone. On Android tablet or iPad, it will always work on "Speaker" mode.

Switched to talk mode.

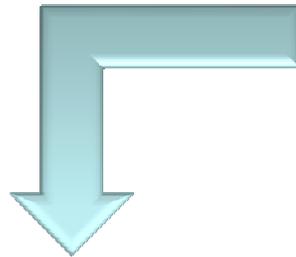
Front Door 100

- Handset mode.
- Speaker mode.
- DOOR OPEN
- End the Call
- Mute OFF
- Mute ON (No voice)

• Default talk/monitor time is 60 seconds.

Call Intercom extension

• Tap “ call extension ” button.



• The registered phones are listed on screen, click on the icon for n the icon for audio intercom.
• Only eight phones can be listed on screen, If more than eight phones registered, please slide up for remain phones appear.

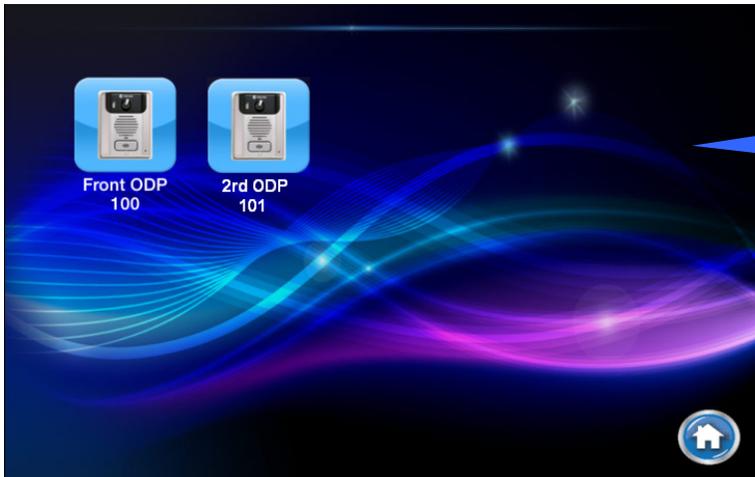
• Back to main page.

- Call intercom extension – is an audio only intercom.
- Video is not applicable in this version.

MONITOR

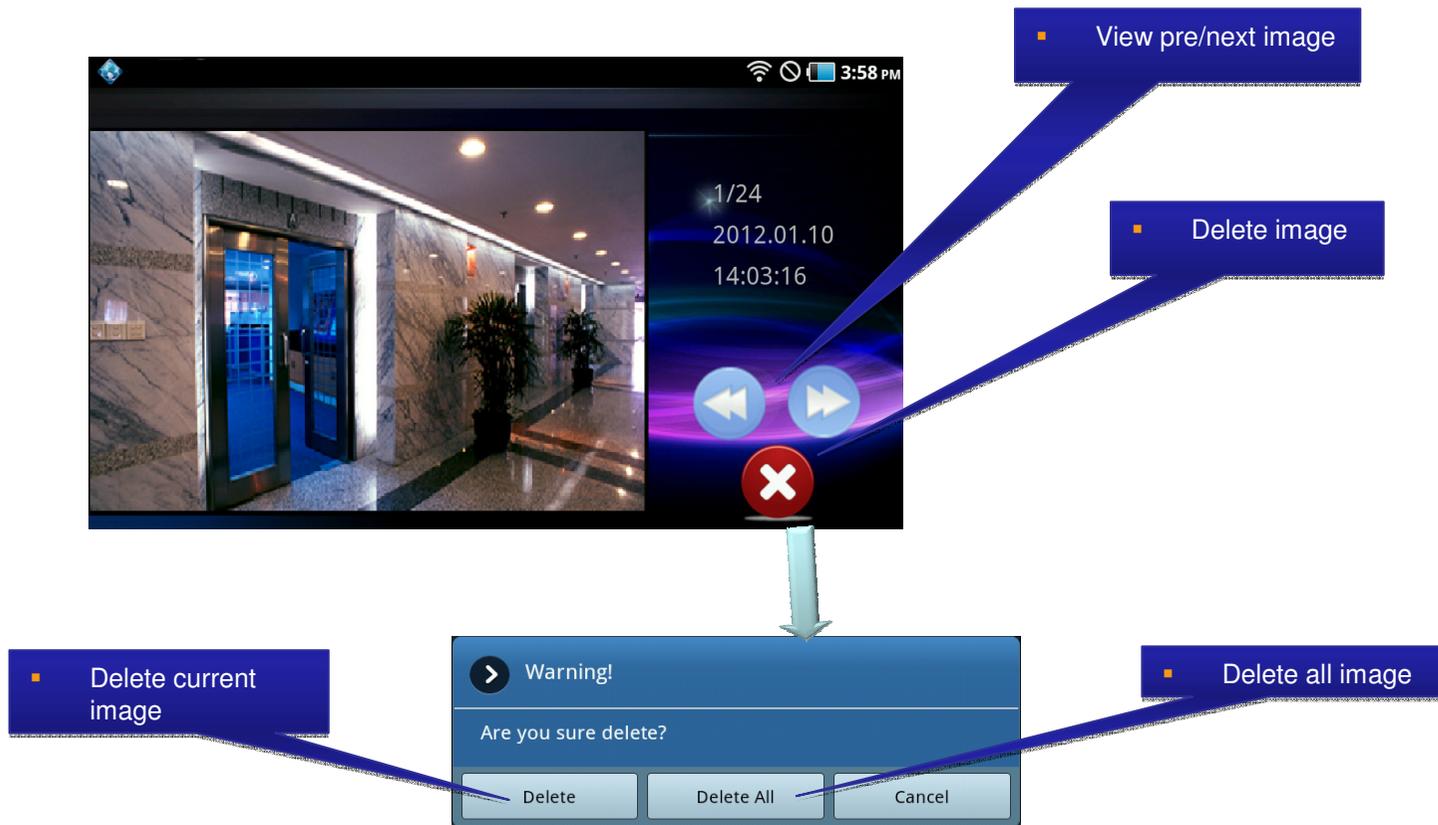
- Through the monitor function to monitor the image of the front door or 2nd door

•Press – Monitor icon
•Entering the selection of registered door phone



Owner can choose registered front door or 2nd door from the panel.

VISITOR LOG(photo snap shot)



Visitor Picture Storage:

- Android: The pictures are stored in SD-Card. When the free memory size is less than 5%, it will show a warning message.
- IOS: The visitor pictures can be stored up to 400 pcs.
If memory size is full or up to 400 pcs, we will delete old pictures and save new image automatically.

SETUP

- SETUP page for Smart phone
 - Ringtone Settings, Background Settings, Modify Registration Message, Card Settings, Volume, Version and Terminal Equipment. Total in 7 features.
- SETUP page for Indoor phone/Master station (10" tablet IP-5800)
 - Ringtone Settings, Background Settings, Modify Registration Message, Card Settings, Volume, Version and Terminal Equipment, slide show. Total in 8 features.



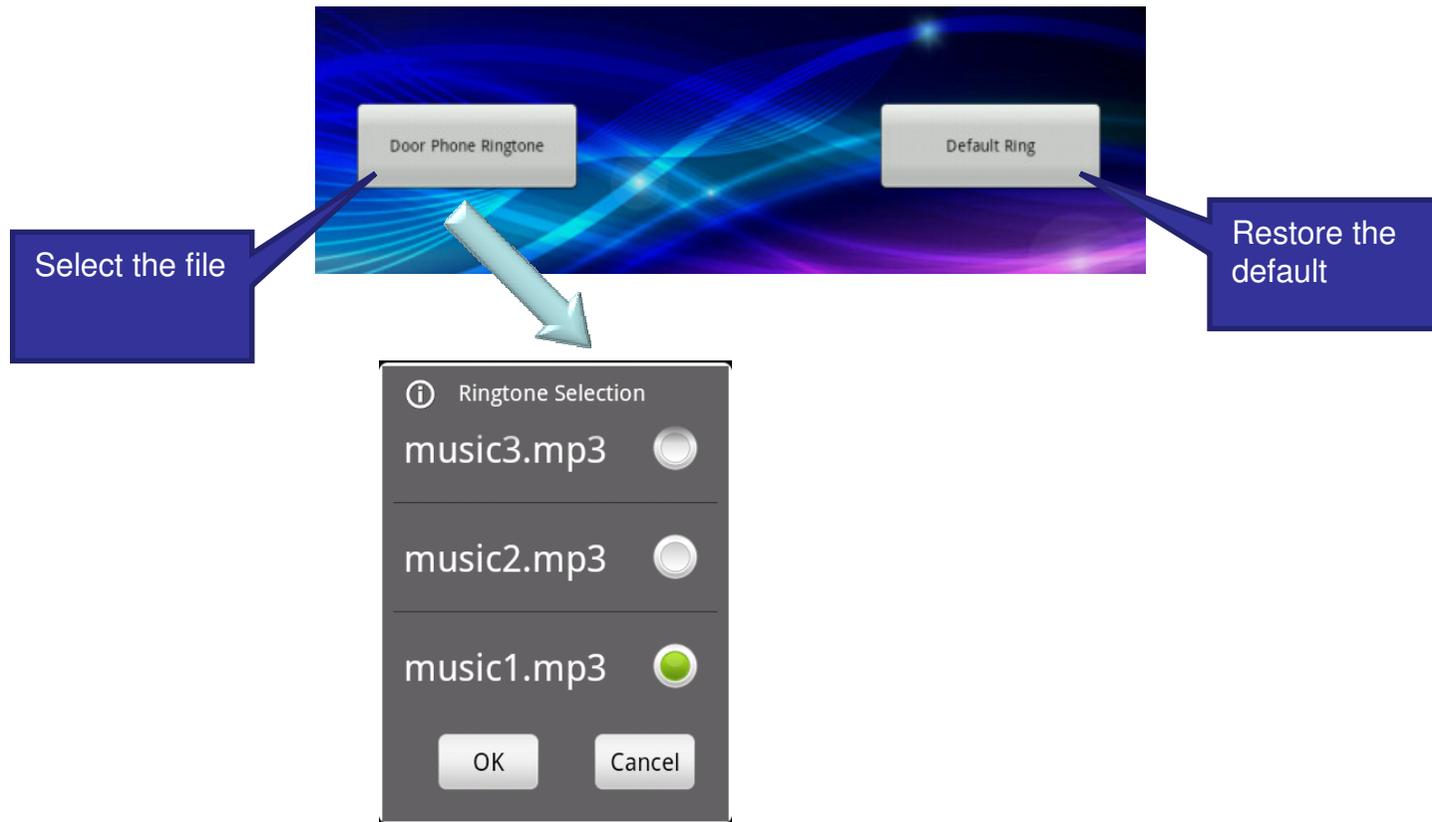
SETUP Page for Mobile Device



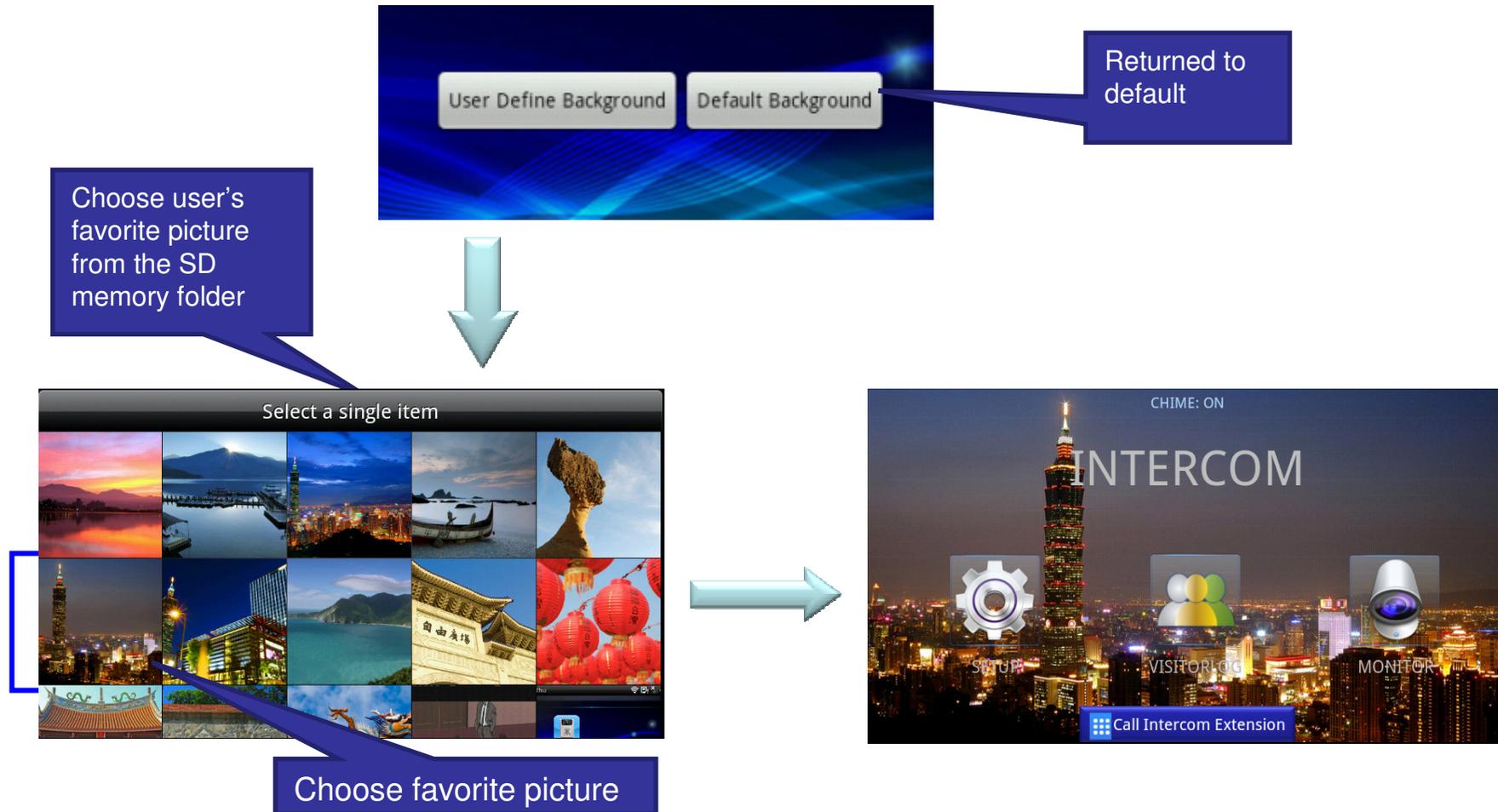
SETUP Page for 10" tablet IP5800

Ringtone settings

- Users can store ringtone files in the "ring" folder of sd card, select the ringtones.



Background Settings



Modify Registration Message

- Warning: to modify the registration information (Account, password and the server address) must be the same as the registration information recorded on the e-GW, otherwise it will result in registration failure.

The screenshot shows a registration form with the following fields and callouts:

- Please Enter Extension No.:** 101 (Callout: Existed registration information: Account/password)
- Please Enter Password:** 101 (Callout: WAN IP address of eGW)
- Default Server Address:** 192.168.1.100 (Callout: Wi-Fi WAN IP address or registered DDNS Host name)
- Server Address:** xxx.xxx.xxx.xxx (Callout: Wi-Fi WAN IP address or registered DDNS Host name)
- MAC Address:** 7C:61:93:A0:73:93
- Version:** SMP_V0.3.21I_Intercom_r2315
- Registration** button (Callout: Press this button to access registration procedure)

At the bottom of the form, there are buttons for "Back" and "Homepage".

- Press this button to access registration procedure.
- To create or modify a new registration information(Account, password and the server address), user will be required to (1) first registration to e-GW ; (2) registration to device, otherwise it will result in registration failure;

Modify Registration Message flow chart

Login e-GW changes
The Device Registration Information

Device connected to the Internet
(Or confirm the IDP is Connecting with of e-GW)

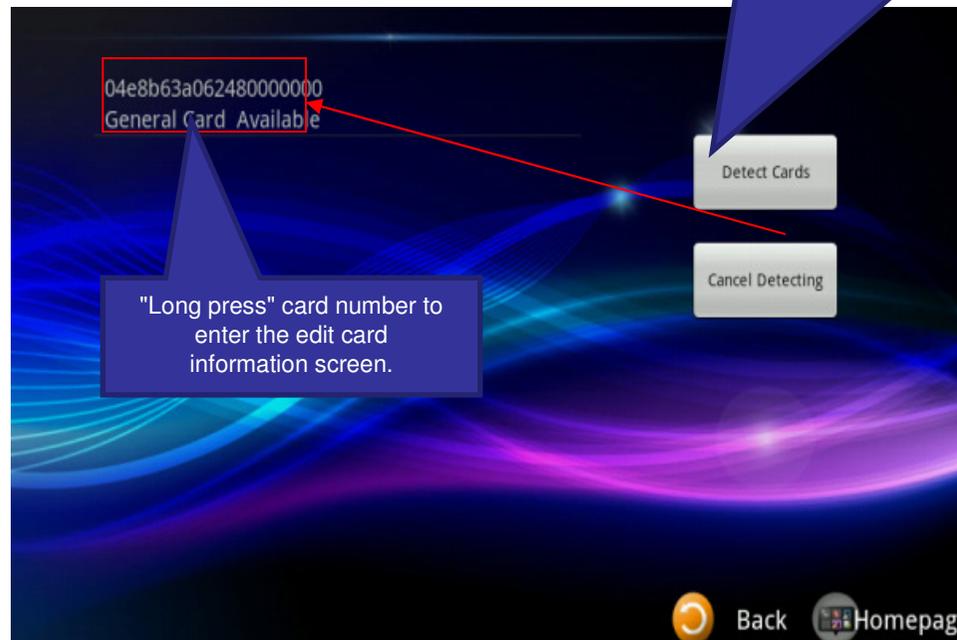
To enter intercom, modify the Registration
Message page, and fill in the registration information

When the intercom on the screen
display the Registration Success Message, said the registration was successful

Card Settings

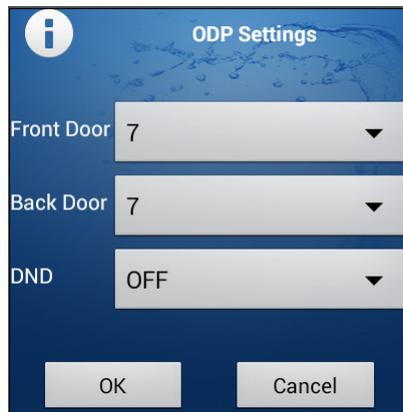
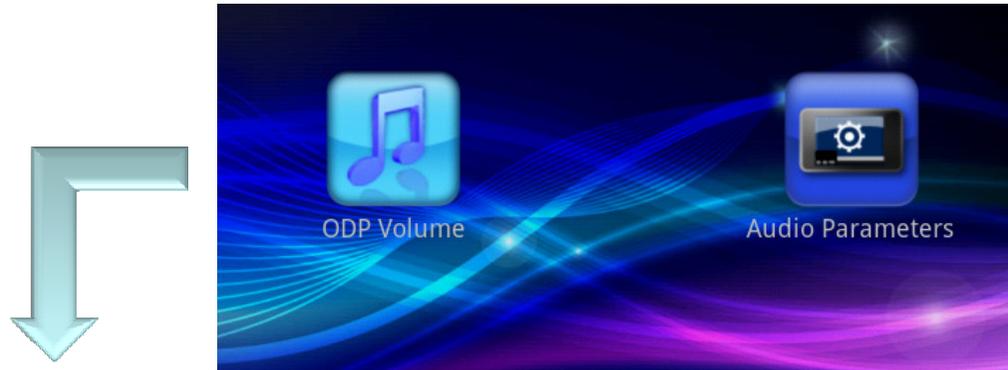
- Users can add or set the access card
 1. New access card: Click the "Detect Cards" button.
 2. Edit the access control card: the "long press" card number to edit card information.
 3. System can support up to 32 access cards.

- Add the access card:
 1. Press the "Detect Cards, RF ID card button to begin assay.
 2. RF ID card to brush off the lens of the ODP.
 3. When displayed to the right card number detection success.
 4. Press the "Cancel Detecting" the end of the RF ID card detection.



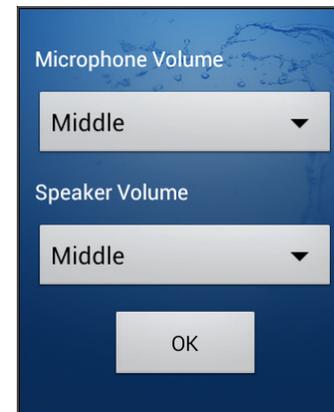
Volume Settings

- ODP volume and device volume can be adjusted



Adjustable front door and back door Speaker volume

DND (Do Not Disturb): When DND is "ON", it will silence incoming calls. **(The DND setting is for Android only.)**



Adjustable Device Microphone and Speaker Volume.

Volume Settings (DND)

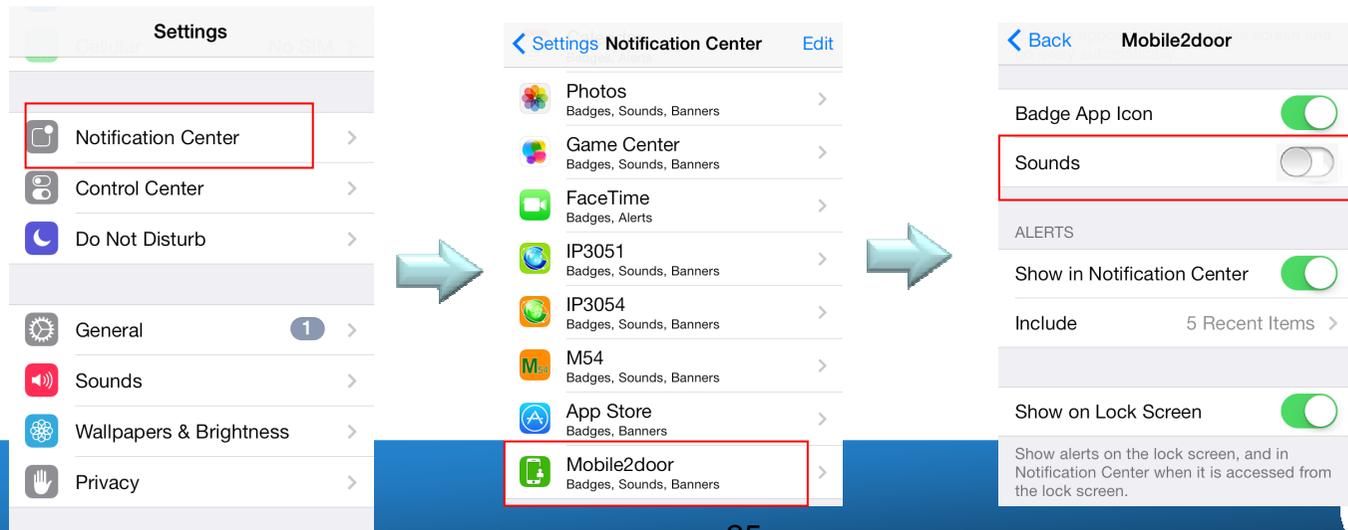
- Android platform



The  icon appears on top-right at corner of main screen to remind user the DND status is "ON".

- IOS platform

User can turn off the "APNS" Notification sound alert by IOS settings.



Version & Terminal equipment

- View version information



- List of all terminal equipment on the currently registered.



Slideshow settings (only for IP5800 10" tablet)

- User photos can be stored in the SD-Card album folder after the start of this function.
- When the screen into sleep mode, the system will automatically perform a digital photo frame function.



Exit Mobile2Door App

- **Android smartphone:**

- 1) **Exit Mobile2Door App**

- Exit Mobile2Door App, the Smartphone will not receive any incoming call notification.



- 2) **Leave Mobile2Door UI, and App running in the background**

- Keep App running in the background and 3G/Wifi connection, the Smartphone can receive the incoming call notification.



3) Visitor ring-in from door phone unit, when Mobile2Door App is running in the background

- When visitor ring-in from door phone unit, the Mobile2Door App will pop-out automatically.

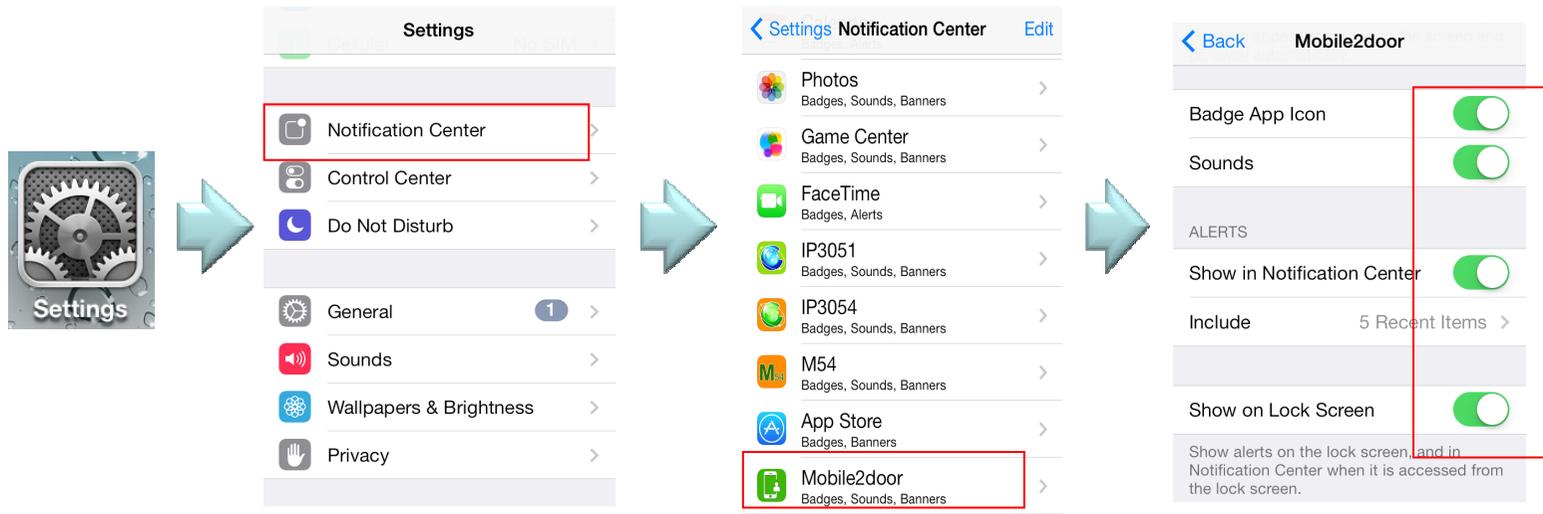


The Mobile2Door App pop-out and ring.

- **iPhone:**

- When user exits the Mobile2Door App, please make sure the Notification is enable and 3G or Wifi network is connected for incoming call notification received.

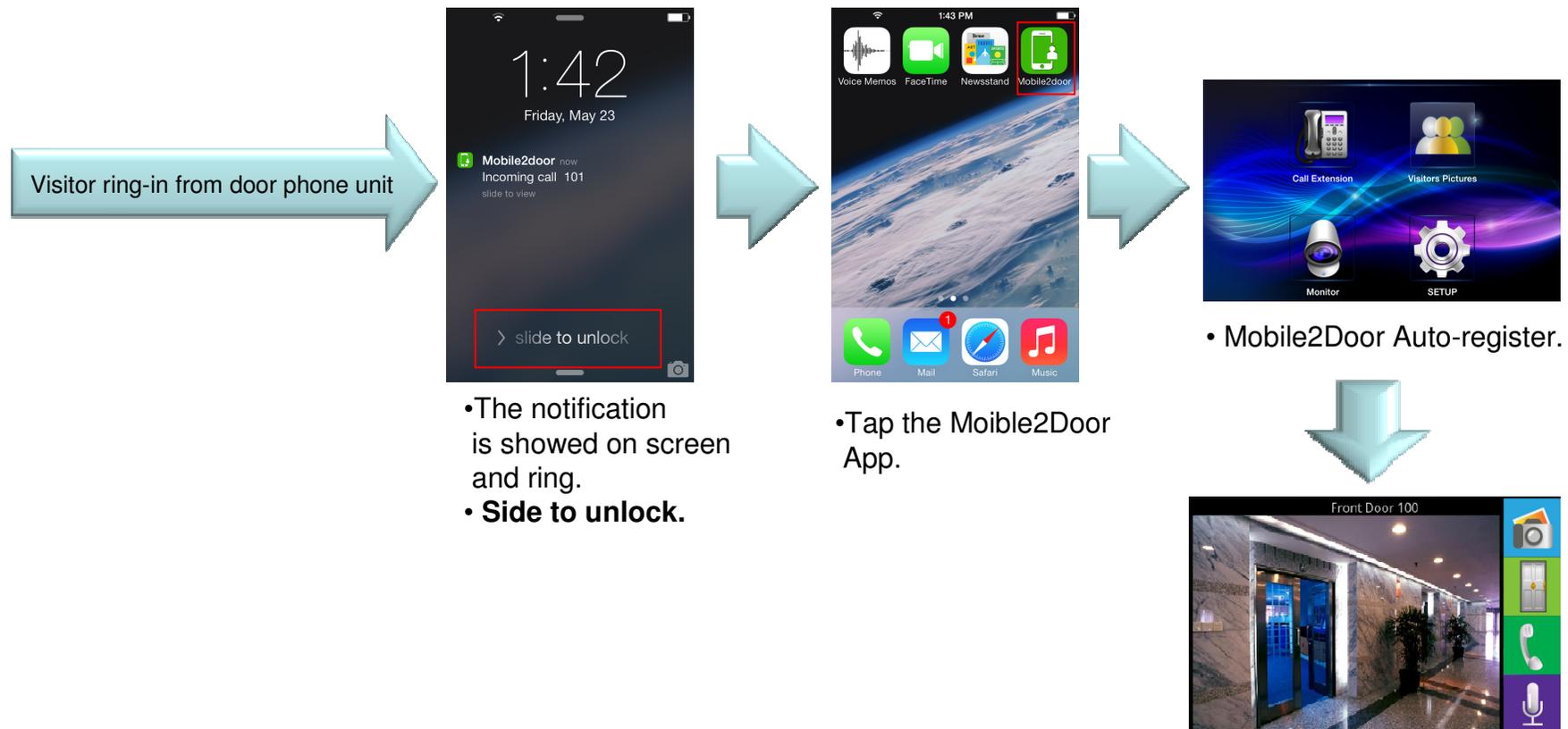
1) Notification Setting



•Enable these items.

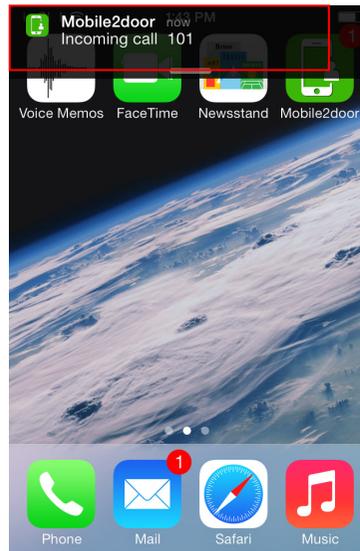
2) Visitor ring-in from door phone unit, when Mobile2Door App is not running

a) iPhone screen is locked, receive the incoming call notification.



b) When iPhone is using, receive the incoming call notification.

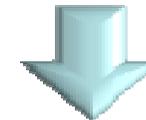
Visitor ring-in from door phone unit



- The notification is showed on the top of screen.
- **Tap the notification.**

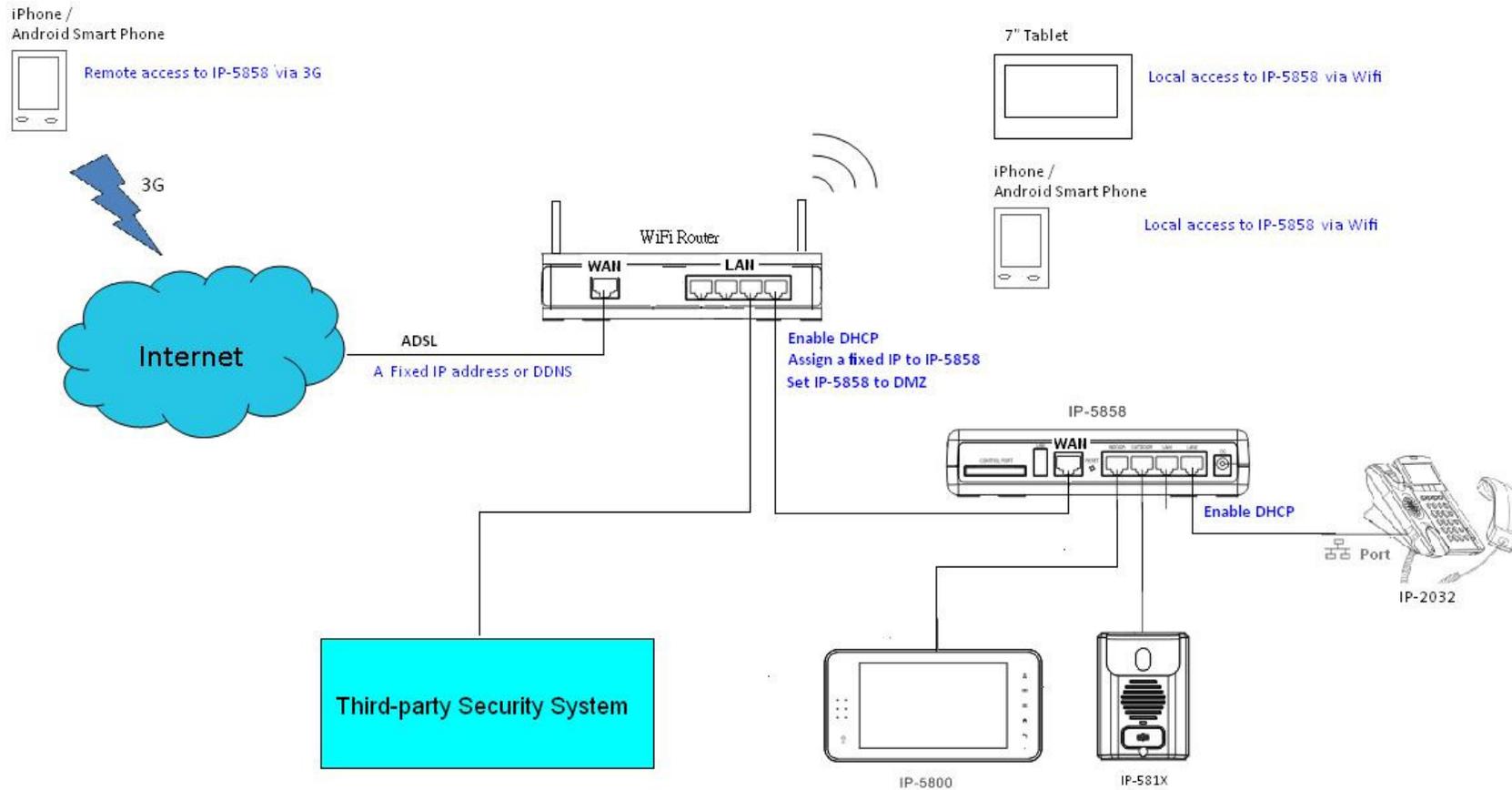


- Mobile2Door Auto-register.



Note

Smart Bell System Architecture



SMP and Wi-Fi Requirement for Smart Bell System



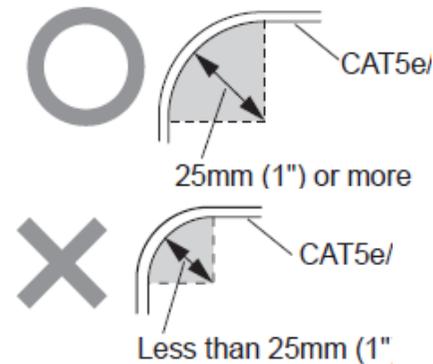
- Recommend specification on Android Smart phone
 - CPU clock: 1024 MHz or above
 - Memory Size: 1GB ROM + 512 MB RAM or above
 - LCD Resolution: 800 * 480 or above
 - LCD Size: over 3.5 " or above.
 - Operation System: Android 2.3 or above
 - Reference model
 - Samsung SII or above
 - HTC ONE series
- Recommend specification on iPhone Smart phone
 - Reference model
 - iPhone 4 or above.
- Recommend specification on Wi-Fi router
 - Standard: 802.11 b/g/n
 - Wireless Signal Rates: 300Mbps
 - Antenna Gain; 2dBi
 - MIMO: 2T2R
 - QoS Management
 - DDNS Support.
 - Reference model
 - TP-Link TL-WR841N(D), D-Link DIR-615.

IMPORTANT! The devices mentioned here are not guaranteed operation and compatibility with our hardware & software. It is very likely that suppliers have their own proprietary design involved and not fully compliant with standard, so it is possible that a device, will not prove compatible with our hardware & software.

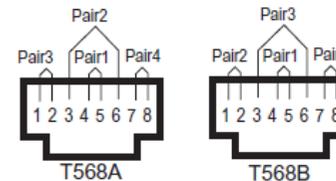
Notes on CAT5e cable



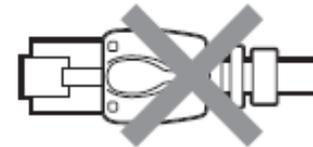
- Do not bend the cables to an extent where the radius is less than 25 mm (1"). Communication failure could result.
- Do not remove the CAT5e cable jacket more than necessary.
- Arrange the color code of the RJ45 connections in accordance with EIA/TIA-568A or 568B.



- Arrange the color code of the RJ45 connections in accordance with EIA/TIA-568A or 568B.



- Be sure to check the condition of cable connections with a LAN checker before connecting with a LAN cable.
- An RJ45 connector with a cover cannot be connected to the port for CAT5e on IP master stations or IP door stations. Use a cable without a cover.
- Do not pull or put excess strain on CAT5e cables.
- Use a straight-through cable for connecting units.



Warranty



- We warrants its products to be free from defects of material and workmanship under normal use and service for a period of one year after delivery and will repair free of charge or replace at no charge, should it become defective upon which examination shall disclose to be defective and under warranty.
- We reserves unto itself the sole right to make the final decision whether there is a defect in materials and/or workmanship; and whether or not the product is within the warranty. This warranty shall not apply to any We product which has been subject to misuse, neglect, accident, power surge, or to use in violation of instructions furnished, nor extended to units which have been repaired or altered outside of the factory. This warranty does not cover batteries or damage caused by batteries used in connection with the unit.
- We will not be responsible for any costs incurred involving on site service calls. We will not provide compensation for any loss or damage incurred by the breakdown or malfunction of its products during use, or for any consequent inconvenience or losses that may result.

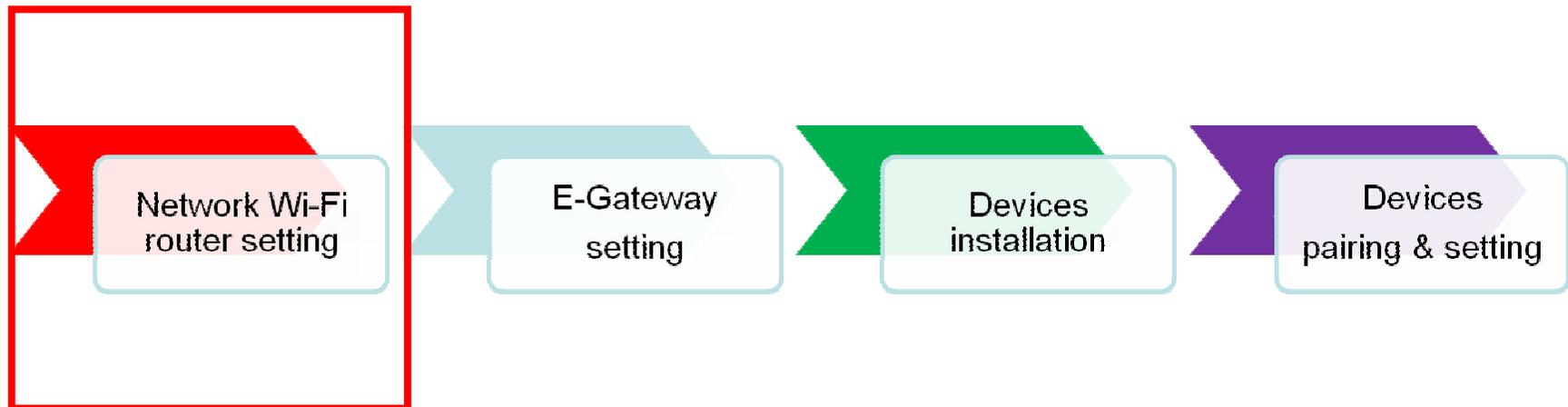
FCC



- This device complies with Part 15 of the 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.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
- This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
- If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna
 - Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. Increase the separation between the equipment and receiver.
 - Consult the dealer or an experienced radio/TV technician for help.

Note

Installation steps



SMP and Wi-Fi Requirement for Smart Bell System

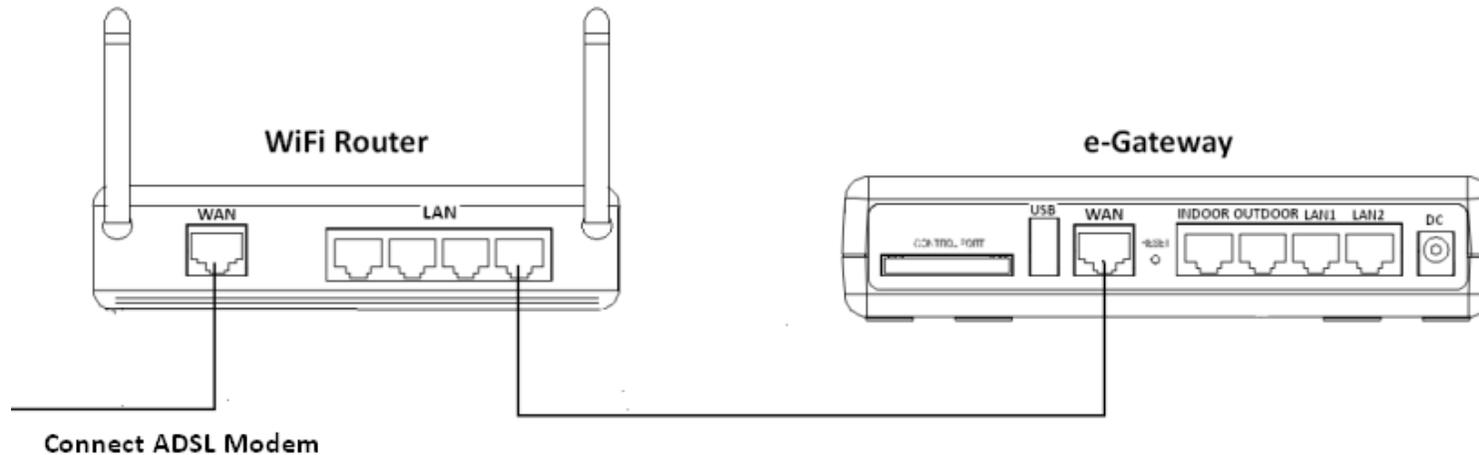


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 - DDNS Support.
 - Reference model
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Connection diagram

Wi-Fi Router Connection to e-Gateway adapter



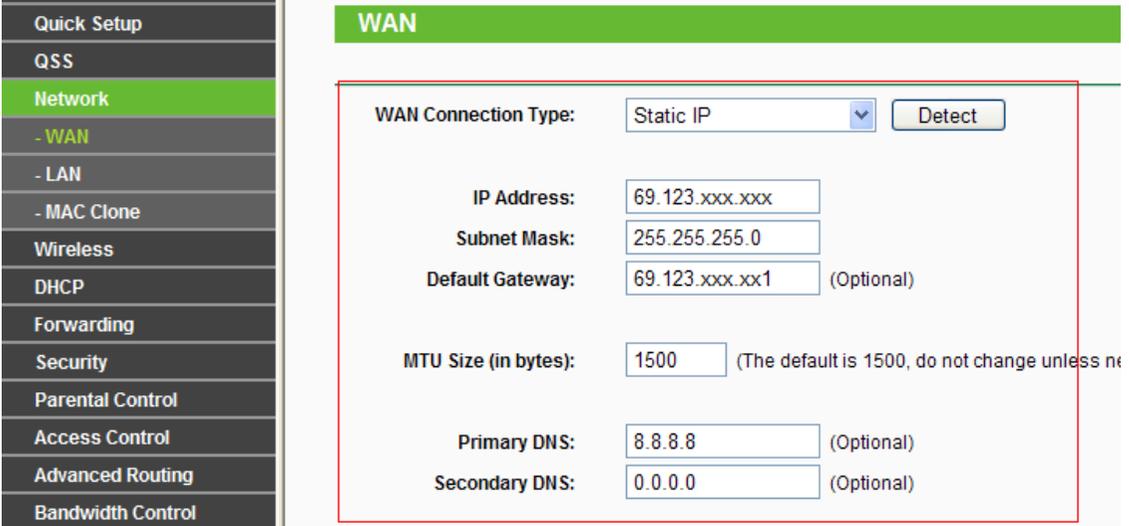
- Connect WAN port of WiFi Router to ADSL
- Connect WAN port of e-Gateway to LAN1 port of WiFi Router.
- Internet Connection Setting
- Enable DHCP Server and set a different IP segment with DHCP setting of e-Gateway.
- Reserve a fixed IP address to e-Gateway.
- Set IP address of e-Gateway to DMZ (Demilitarized Zone)

Network Wi-Fi Router Setting

1. Internet/WAN Connection Setting:

- Login the administration page of the Wi-Fi router by computer and start setting.
- In accordance with the ISP provides Internet connection information, and set to the WAN / Internet connection. 2 ways to acquire the IP address:
 - static IP and
 - dynamic IP (such as: DHCP, PPPoE)

Static IP Connection Setting:



The screenshot displays the WAN configuration interface. The left sidebar lists various settings, with 'Network' selected and 'WAN' highlighted. The main content area is titled 'WAN' and contains the following fields:

- WAN Connection Type: Static IP (with a 'Detect' button)
- IP Address: 69.123.xxx.xxx
- Subnet Mask: 255.255.255.0
- Default Gateway: 69.123.xxx.xx1 (Optional)
- MTU Size (in bytes): 1500 (The default is 1500, do not change unless ne...)
- Primary DNS: 8.8.8.8 (Optional)
- Secondary DNS: 0.0.0.0 (Optional)

- Dynamic IP (DHCP/PPPoE)Connection:

- When the Internet connection type is Dynamic IP, setting the DDNS is also required.
- For DDNS settings, please refer to the Wi-Fi router Instructions.
- For detailed instructions about DDNS, please refer to index -2.

1. Select DDNS provider.

2. Input your account, password and registered domain name.

Network Wi-Fi Router Setting

2. In the LAN setting section,

- Please enable DHCP Server and set a different IP segment with e-Gateway's.
- The current e-Gateway default LAN IP segment is 192.168.0.xxx, to avoid this section when setting the Wi-Fi router.

Status
Quick Setup
QSS
Network
Wireless
DHCP
- DHCP Settings
- DHCP Clients List
- Address Reservation
Forwarding

DHCP Settings

DHCP Server: Disable Enable

Start IP Address:

End IP Address:

Address Lease Time: minutes (1~2880 minutes, the default value is 120)

Default Gateway: (optional)

Default Domain: (optional)

Enable DHCP Server

Set an IP segment

Network Wi-Fi Router Setting

3. Reserve a fixed IP address to e-Gateway.

ID	MAC Address	Reserved IP Address	Status	Modify
1	00-19-15-D6-39-A4	192.168.1.100	Enabled	Modify Delete

Reserve a fixed IP address To e-Gateway.

Mac address of e-Gateway

4. Set IP address of e-Gateway to DMZ

Current DMZ Status: Enable Disable

DMZ Host IP Address:

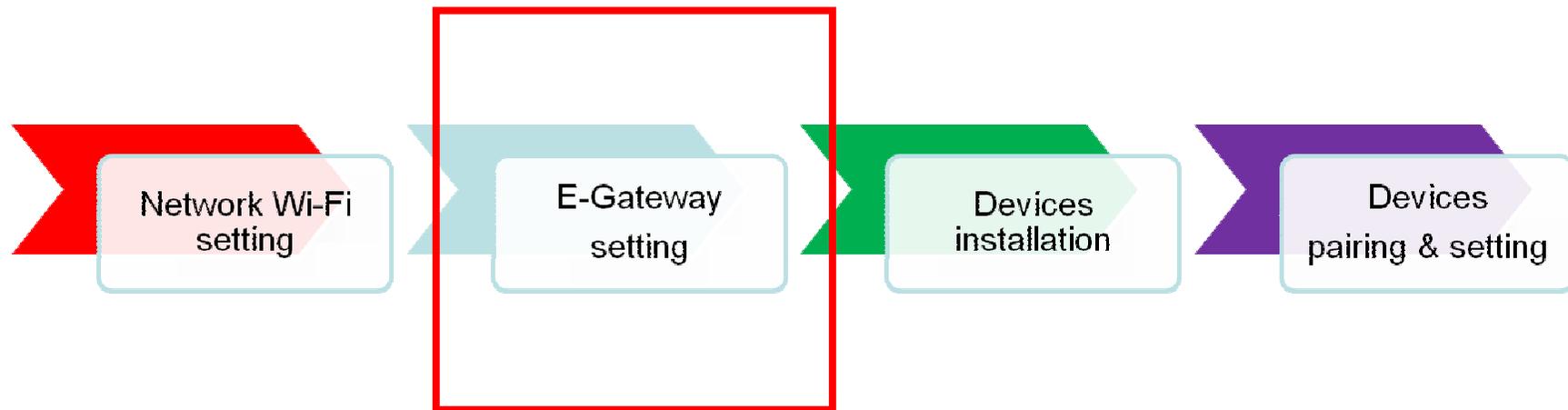
TCP/UDP Ports Definition of Smart Bell System

Port	TCP/UDP	Direction	Port	TCP/UDP	Direction
443	TCP	WAN	49010	TCP	LAN
80	TCP	LAN/WAN	49011	UDP	WAN
5070	UDP	LAN/WAN	49012	UDP	WAN
5080	UDP	LAN/WAN	49013	UDP	WAN
6060	UDP	WAN	49014	UDP	WAN
6062	UDP	WAN	49015	UDP	WAN
9000 ~ 10000	UDP	LAN/WAN	49016	UDP	WAN
48999	TCP/UDP	LAN/WAN	49017	UDP	WAN
49000	TCP	LAN/WAN	49018	UDP	WAN
49001	TCP	LAN/WAN	49019	UDP	WAN
49002	TCP	LAN/WAN	49020	UDP	WAN
49003	TCP	LAN	49021-49030	UDP	LAN/WAN
49004	TCP	LAN/WAN	49031-49070	UDP	WAN
49005	TCP	LAN	49071-49090	TCP	LAN/WAN
49006	TCP	LAN/WAN	49010	TCP	LAN
49007	TCP	LAN/WAN	49011	UDP	WAN
49008	TCP	LAN/WAN	49012	UDP	WAN
49009	TCP	LAN			

- This table lists the current used TCP / UDP ports.
- Do not use the ports for other network applications.

Note

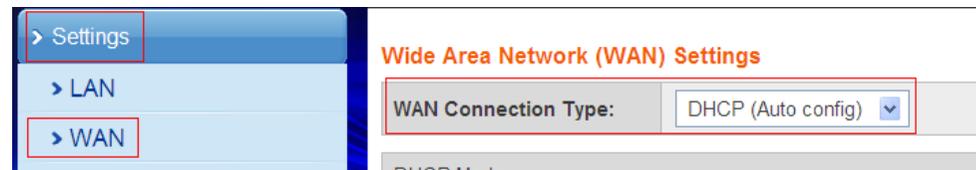
Installation steps



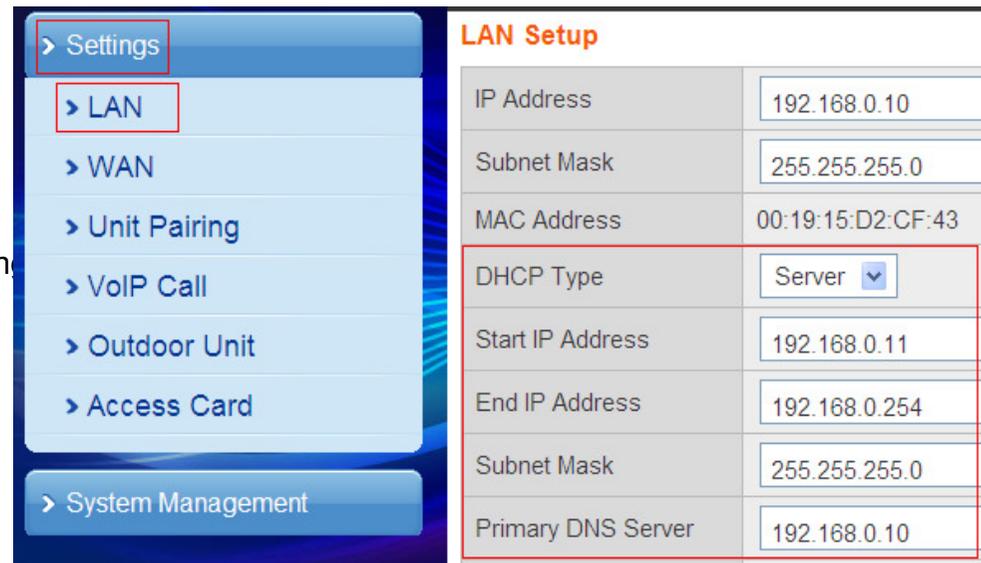
e-Gateway Setting

1. Set WAN Connection type to DHCP. (Default Setting)
2. Set DHCP Type of LAN to “Server” mode. (Default Setting)

- Set WAN Connection type to DHCP. (Default Setting)
- Click the Settings -> WAN -> WAN Connection Type.



- Set DHCP Type of LAN to “Server” mode. (Default Setting)
- Click the Settings -> LAN -> DHCP Type.



Change e-Gateway Password

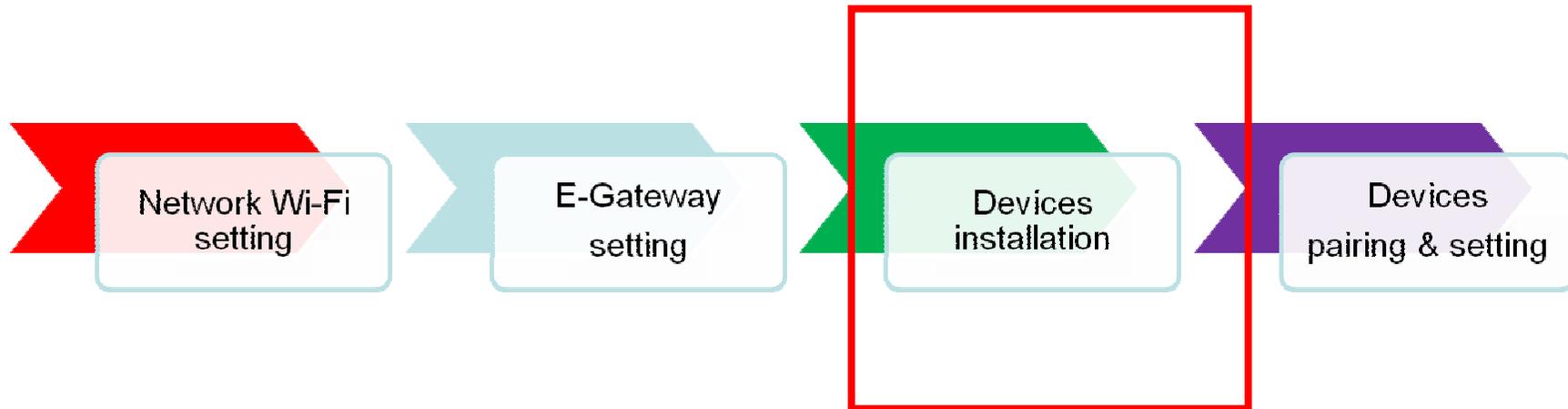
- To secure your system against unwanted outside intrusion (hacking), we strongly recommend that you do is change all of the System's Passwords!
(MAKE SURE TO MAKE A NOTE OF YOUR PASSWROD!)

The screenshot displays the 'Basic Settings' configuration page. On the left, a navigation menu includes 'Device Info', 'Settings', 'System Management', and 'Basic Settings' (which is highlighted with a red box). The main content area is titled 'Basic Settings' and contains the following sections:

- Language Settings:** A 'Select Language' dropdown menu is set to 'English'. Below it are 'Apply' and 'Cancel' buttons.
- Administrator Settings:** The 'Account' field contains 'admin'. The 'Password' field is masked with dots and is highlighted with a red box. Below it are 'Apply' and 'Cancel' buttons, with the 'Apply' button also highlighted with a red box.
- User Settings:** The 'Account' field contains 'user'. The 'Password' field is masked with dots and is highlighted with a red box. Below it are 'Apply' and 'Cancel' buttons, with the 'Apply' button also highlighted with a red box.

Note

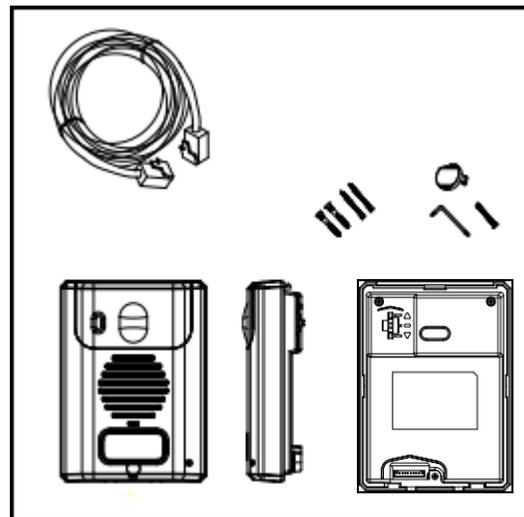
Installation steps



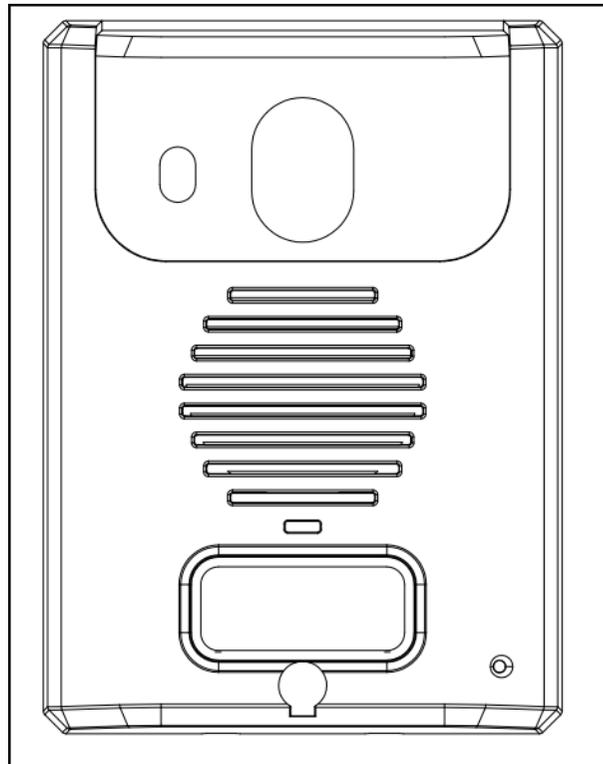
Outdoor phone installation: IP-5813(wall mount type)

- Accessory

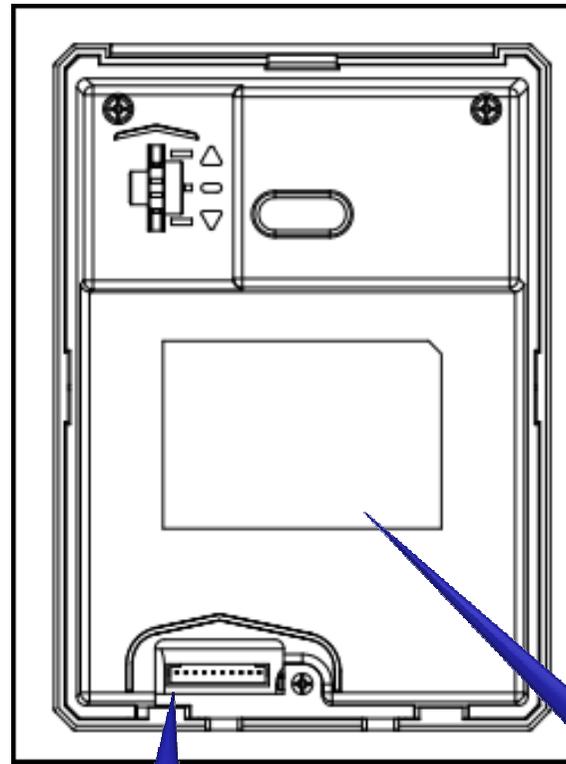
CINUEFOIL SCREW DRIVER	1
SPECIAL WOODEN SCREW RH	2
SPECIAL SCREW M3.0*1.4MM Fe Ni PAN HEAP TORX	1
WALL MOUNT	1
SCREW_COVER	1
SCREW PLUG (UTILITY) FOR Z-IN3 12	2



IP-5813(wall mount type)



Front panel

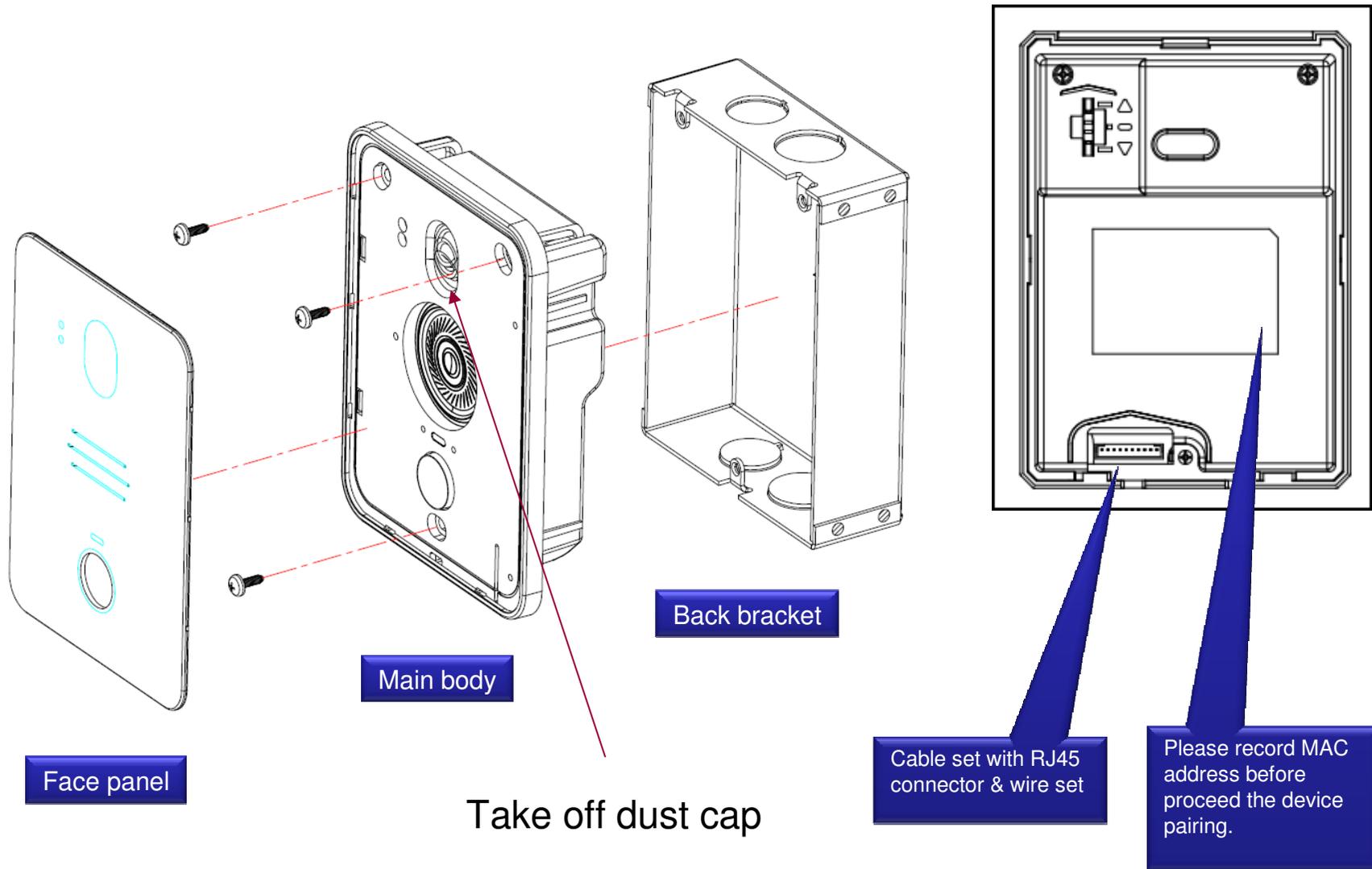


Back panel

Cable set with RJ45 connector & wire set

Please record MAC address before proceed the device pairing.

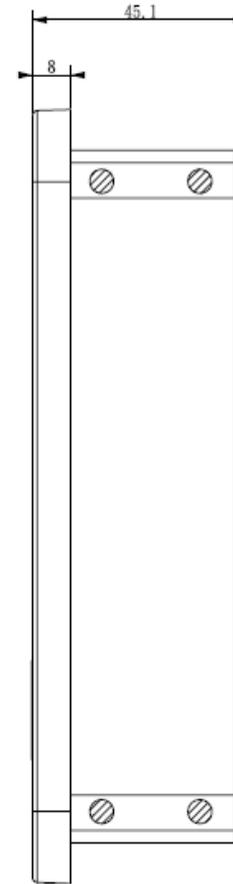
IP-5813(flush mount type)



IP-5813(flush mount type)



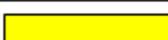
Front panel



Side view with back bracket

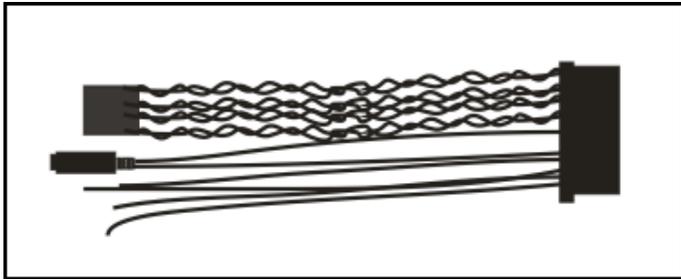
* Dimension of back bracket is varied for market/area.

Connectivity Assignment – Color of Wire and Identification

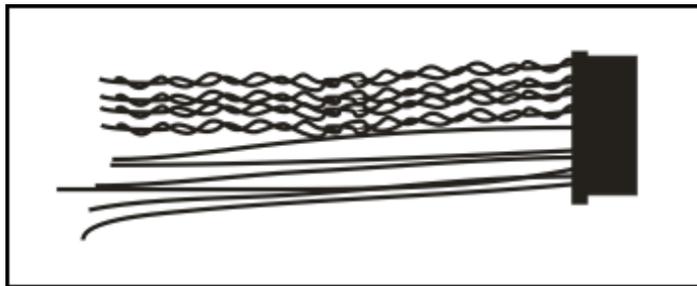
PIN	Function	Description	Pin color
1	R+	Network RX+	 white
2	R-	Network RX-	 orange
3	T+	Network TX+	 white
4	T-	Network TX-	 green
5	SP1	eGayway Power DC 12 to 24V	 white
6	SP1	eGayway Power DC 12 to 24V	 blue
7	SP2	eGayway Power GND	 white
8	SP2	eGayway Power GND	 brown
9	12V	Adaptor +12V	 red
10	GND	Adaptor GND	 black
11	NC	Relay: normal close(dry contact)	 purple
12	NO	Relay: normal open(dry contact)	 yellow
13	COM	Relay: common terminal(dry contact)	 gray
14	DI	Sensor input	 white

Two Types Of 14 pin Connector

- 14 pin connector with RJ45 and DC plug



- 14 pin connector without Jack



- Twist pair definition:
 - Pair1 : Pin1 & Pin 2.
 - Pair2 : Pin3 & Pin 4.
 - Pair3 : Pin5 & Pin 6.
 - Pair4 : Pin7 & Pin 8.

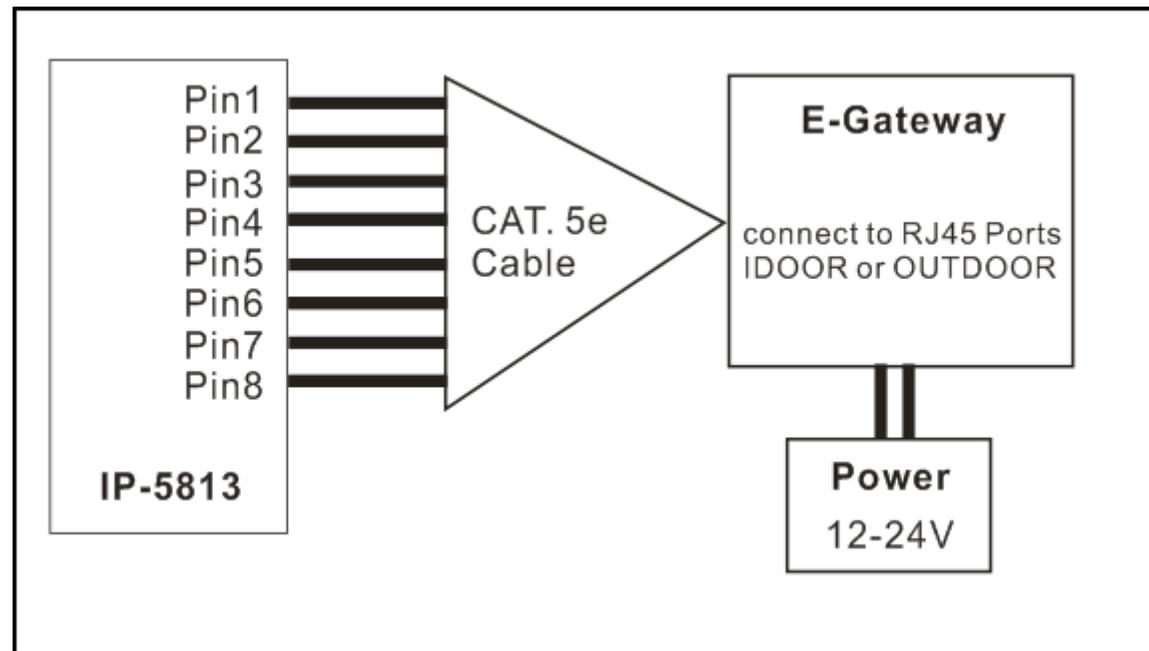
PIN	Function	Description	Pin color
1	R+	Network RX+	 white
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3	T+	Network TX+	 white
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5	SP1	eGayway Power DC 12 to 24V	 white
6	SP1	eGayway Power DC 12 to 24V	 blue
7	SP2	eGayway Power GND	 white
8	SP2	eGayway Power GND	 brown
9	12V	Adaptor +12V	 red
10	GND	Adaptor GND	 black
11	NC	Relay: normal close(dry contact)	 purple
12	NO	Relay: normal open(dry contact)	 yellow
13	COM	Relay: common terminal(dry contact)	 gray
14	DI	Sensor input	 white

Outdoor Phone connection

- To use the CAT5e cable as the linkage wire for outdoor phone and e-Gateway adapter. Resistance of CAT5e < 0.094 Ohm/m.
- e-Gateway adapter: 12V-24V,2A-1A
- Conventional rule :
 - Power supply by e-Gateway for 12V/2A DC, distance is less or equal than 30 meters.
 - Power supply by e-Gateway for 24V/1A DC, distance is less or equal than 100 meters.
 - **When the link distance is over 100 meters far, it must be provided power by external power adapter, and an individual switch/hub is required for connection between outdoor phone and e-Gateway.**

Wire connection from ODP IP5813 to e-Gateway

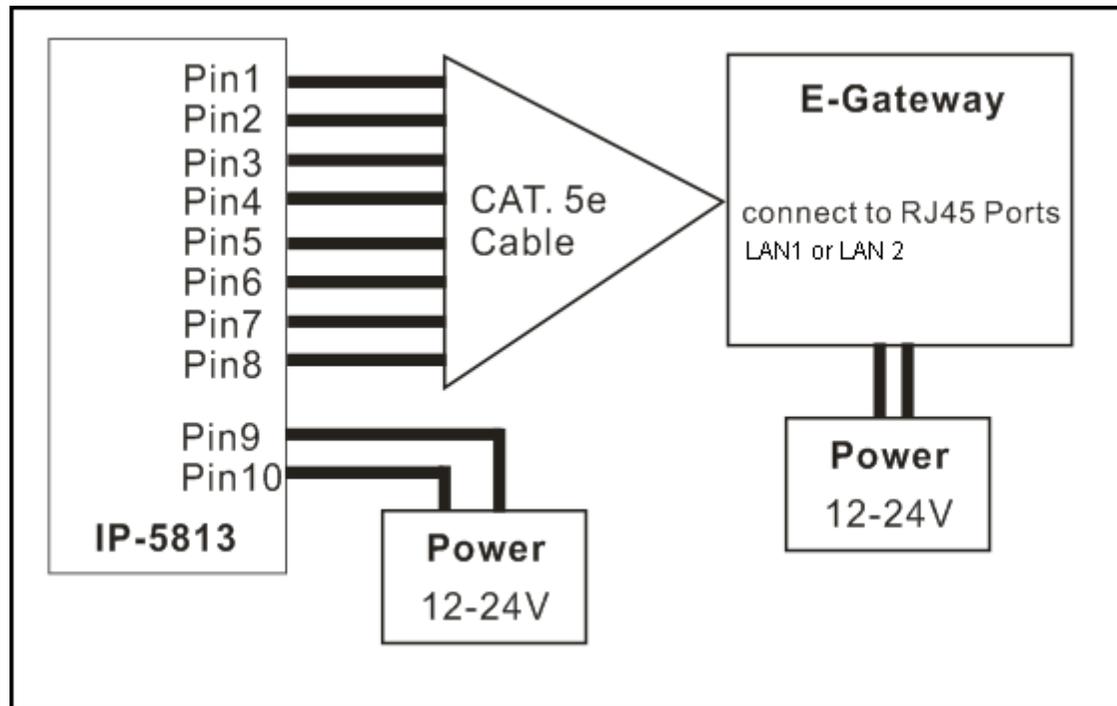
- Power supply by e-Gateway for 12V DC, distance is less or equal than 30 meters.



- CAT5e cable connect to 14 pin connecter

Wire connection from ODP IP5813 to e-Gateway

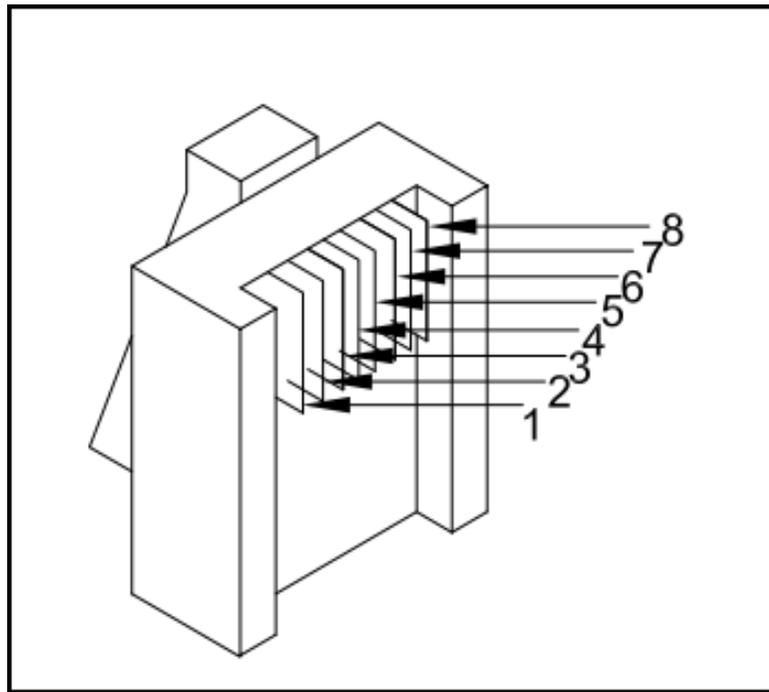
- Recommend the use of an external power supply when the link distance is over 100 meters far between outdoor phone unit to e-Gateway adapter.



- CAT5e cable connect to 14 pin connecter

RJ-45 Connector & Cat 5e Cable.

- RJ45 jack:

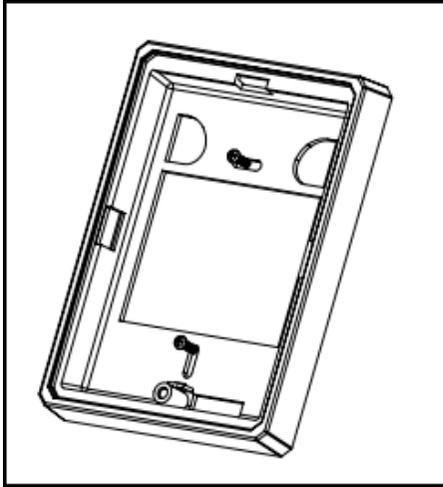


- Pin/wire description

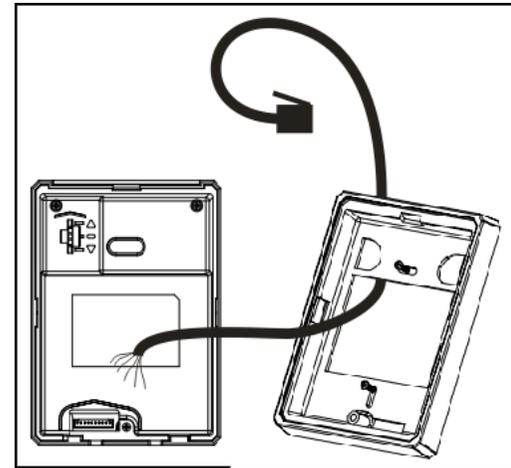
Pin	Color
1	 white/Orange
2	 Orange
3	 white/green
4	 blue
5	 white/blue
6	 green
7	 white/brown
8	 brown

Mounting & surface wiring

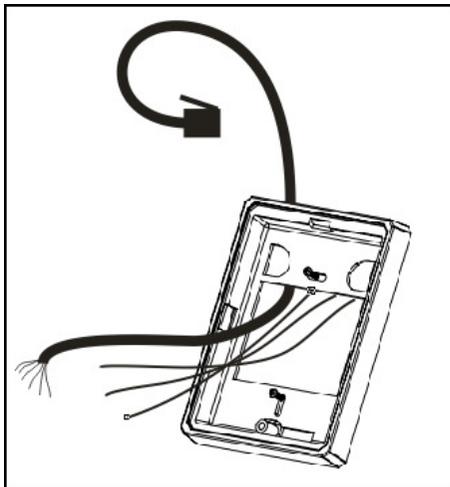
- Gecko into the wall, locked the Wall mount frame



- Wire connected with door phone unit

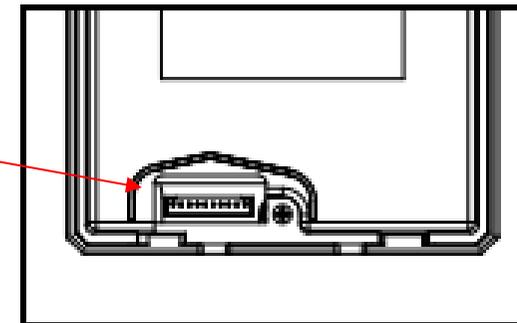


- Pull the wire from the Wall,



- Cable set connected to the back panel of door phone unit.

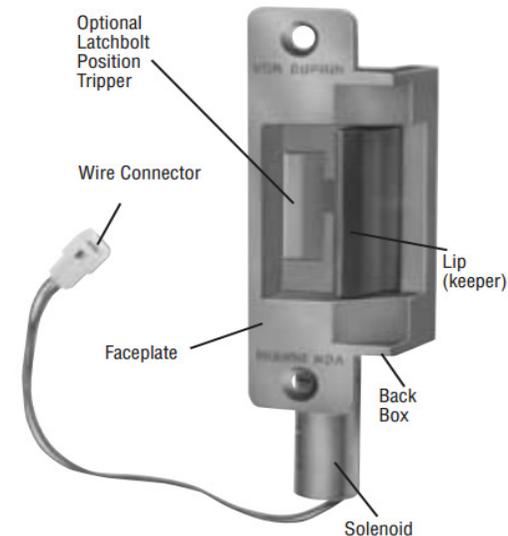
Cable set with RJ45 connector & wire set



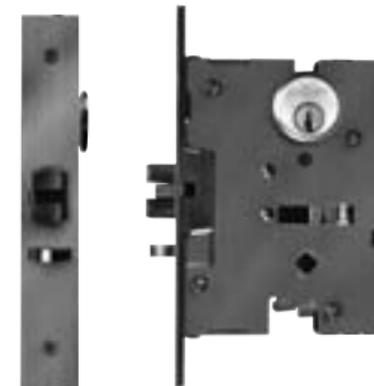
Reference of power source for electric strike/lock



- Electric Strikes provide remote release of a locked door. They allow the door to be opened without retracting the latch bolt.
- This occurs by the releasing of the electric strike lip (sometimes called keeper or gate). When the door closes the beveled latch bolt rides over the lip and falls into the electric strike pocket.
- The relay of outdoor phone can switch the external power to electronic lock.
- The ground pin of external device should be connected to "GND"(pin 10, black) for common ground.
- On loss of power, the strike/lock is locked another supply is required to power the door strike.



Electric strike



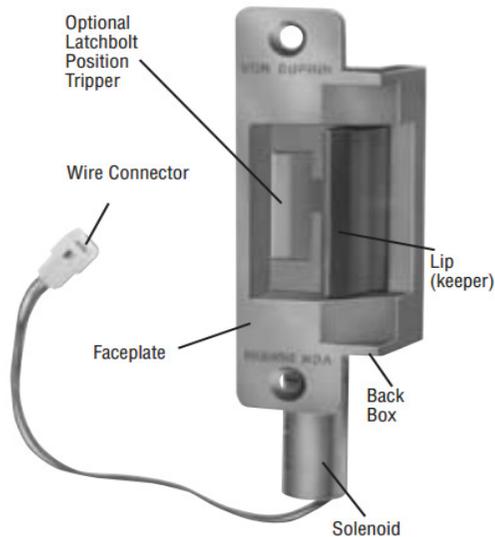
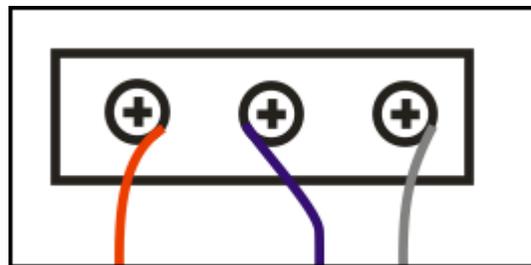
Electric mortise lock

Connections to electric strike (reference)



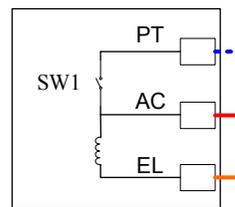
- The connectivity point defined on door phone for electronic door strike/lock is in accordance with – PT, AC, EL.

Electronic Lock	Outdoor phone
PT	PT (pin 14)
AC	COM (pin 13)
EL	NO (pin 12)



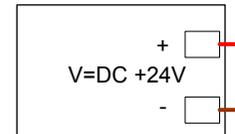
Electric strike

Fail-Secure Door Lock

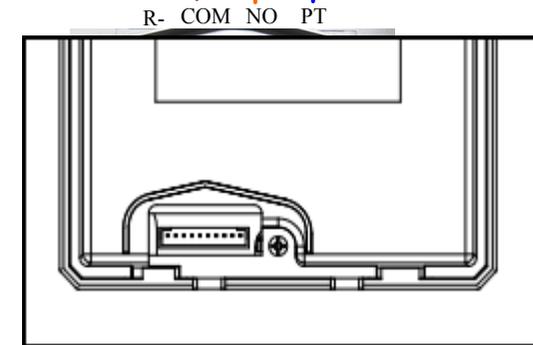


* When Lock on, SW1 → open
* When Lock open, SW1 → close

External Power supply



2KΩ 1/4W



NOTES

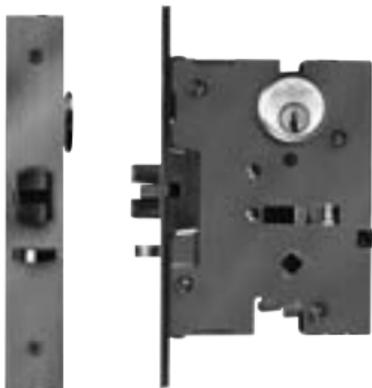
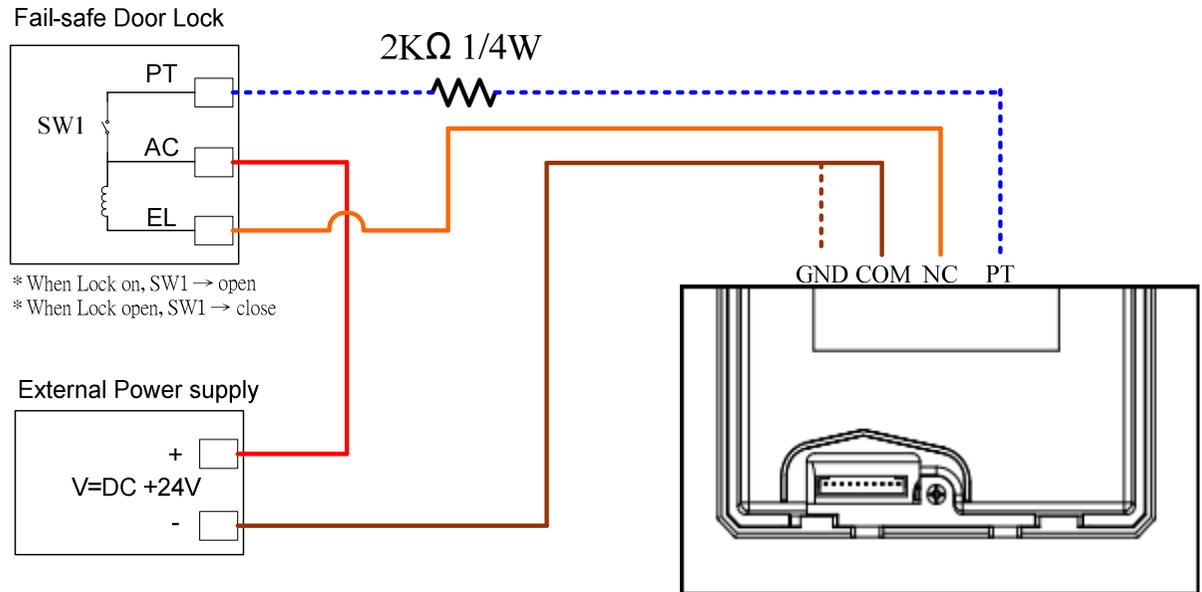
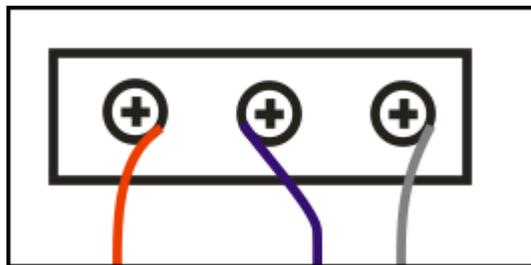
- Connect to the electric door strike according to its specifications.
- Do not use the unoccupied terminals and ports for other purposes.
- In order to prevent miswiring, label both ends of each cable with the unit and terminal names to which they are to be connected.
- For connecting other manufacturer's products, refer to the instruction manuals for those products.
- The illustration of the unit's rear panel differs from the actual one. This is for simplifying the connection diagram.

Connections to electric mortis lock (reference)



- The connectivity point defined on door phone for electronic door strike/lock is in accordance with – PT, AC, EL.

- **Electronic Lock** **Outdoor phone**
- **PT** ← → **PT (pin 14)**
- **AC** ← → **COM (pin 13)**
- **EL** ← → **NC (pin 11)**



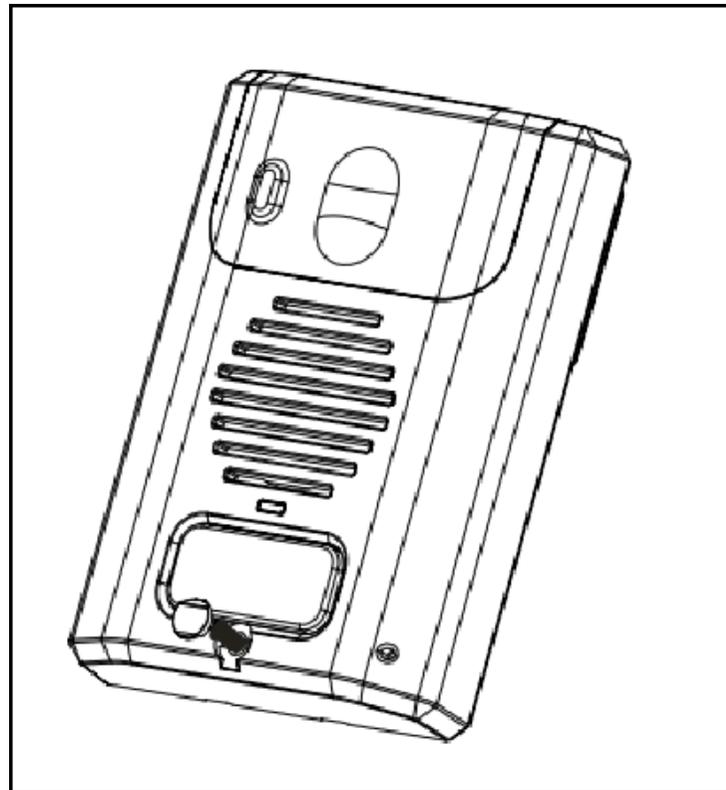
Electric mortise lock

NOTES

- Connect to the electric door strike according to its specifications.
- Do not use the unoccupied terminals and ports for other purposes.
- In order to prevent miswiring, label both ends of each cable with the unit and terminal names to which they are to be connected.
- For connecting other manufacturer's products, refer to the instruction manuals for those products.
- The illustration of the unit's rear panel differs from the actual one. This is for simplifying the connection diagram.

Complete the installation

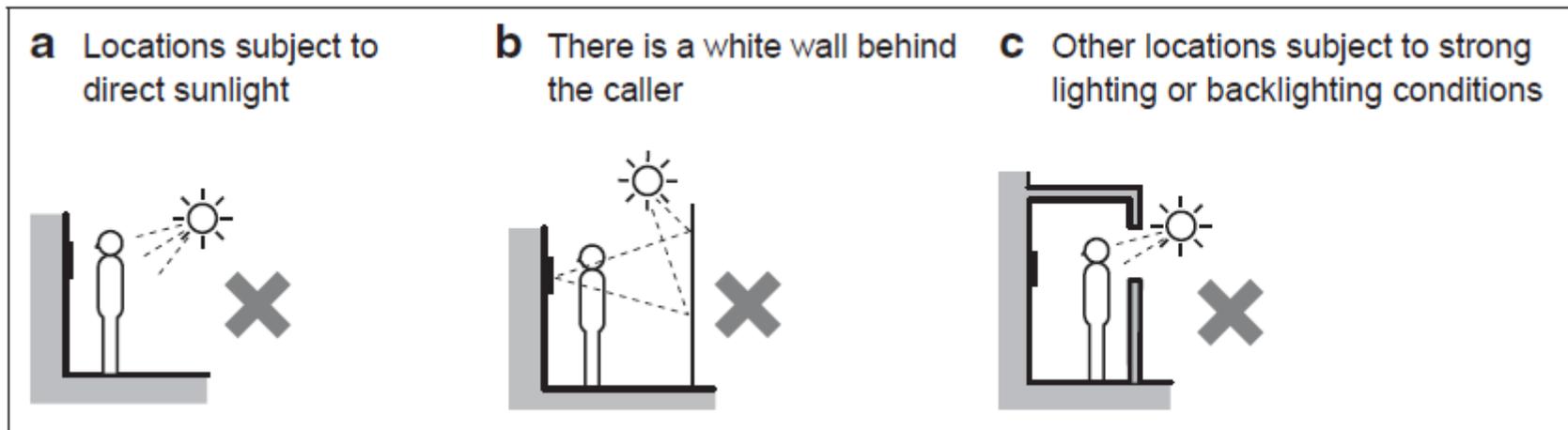
- The outdoor will be pressed into the wall mount and use the fixed star screws and wrench
- Cleaning: Clean the units with a soft cloth dampened with a neutral household cleanser. Do not use an abrasive cleanser or cloth.



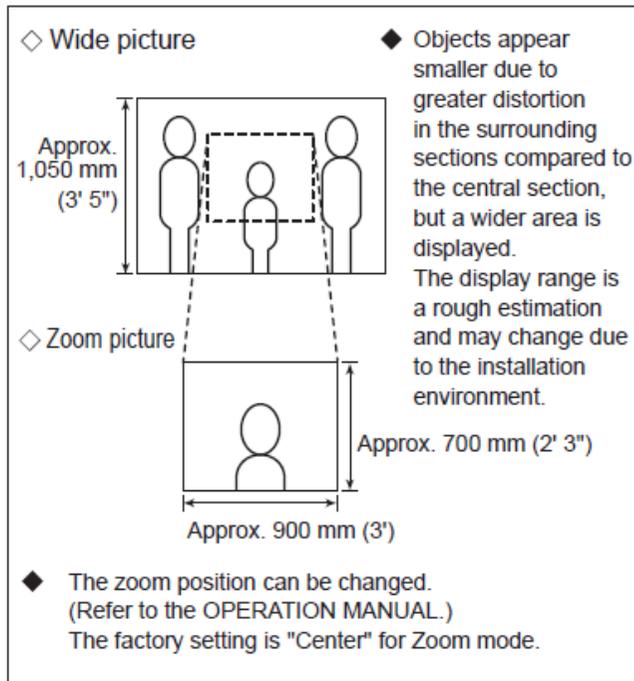
Mounting locations



- Do not install this unit in any of the following locations where lighting or the ambient environment could impact the display on the
- video monitor due to the characteristics of the door station's camera.

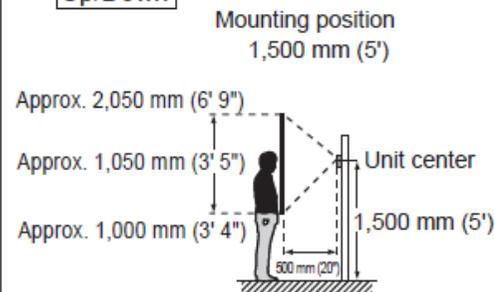


Mounting positions and image view

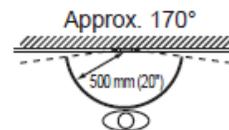


◇ Wide picture

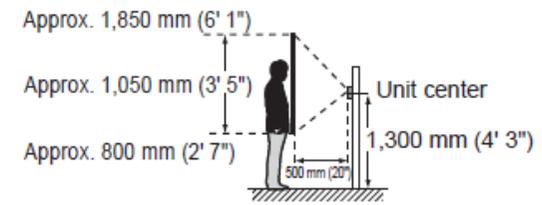
Up/Down



Left/Right



Mounting position 1,300 mm (4' 3")



- ◆ An area over a range of approx. 170° in a 500 mm (20") radius from the camera displays. (The display range is a rough estimation and may change due to the installation environment.)

IP video door phone features

- IP addressable video door station
- Dry contact for door release
- Digital color video camera
- Call button, LED indication
- For indoor or outdoor use
- Connects using CAT 5e cable
- Uses PoE or DC power supply

Door Phone unit



Flush mount

Wall mount



IP addressable

Specification

Camera	CCD sensor, NTSC/PAL
Night Light	2 x LED
Features	<ul style="list-style-type: none">• 1 * ISO14443 Card Reader, support RFID card• 1 * Door Lock port for power lock• Speaker(8Ω/1W) x1, Microphone(-62±2dB) x1• 1 * Ethernet Interface
	<ul style="list-style-type: none">• IP connectivity• LED night function, make the image clearly.• Built-in RFID sensor module (MiFare format).• An external power locks, for access control.• Monitor unit for outdoor image.
Support protocol	<ul style="list-style-type: none">• SIP 2.0 (RFC 3261)/TCP/IP/UDP, RTP, ARP, ICMP, DHCP, DNS, NTP• Power supply: PoE or external 12V power supply• Audio codec: G.711 (A/u-law) , G.729• Audio quality: packet loss concealment, echo suppressor• Video codec: H.264 baseline real-time video codec• Automatic firmware and configuration update via TFTP

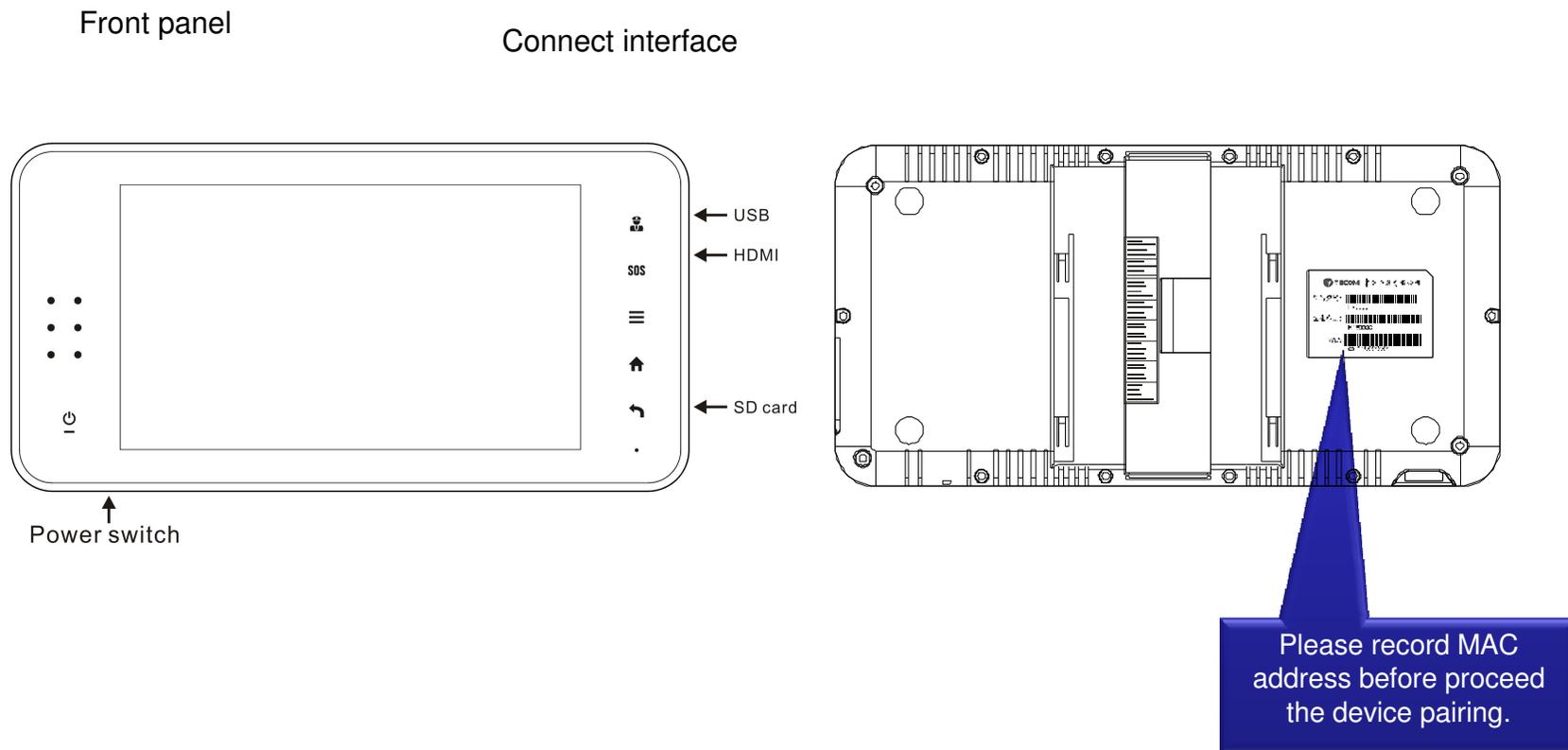
Wall mount



Flush mount

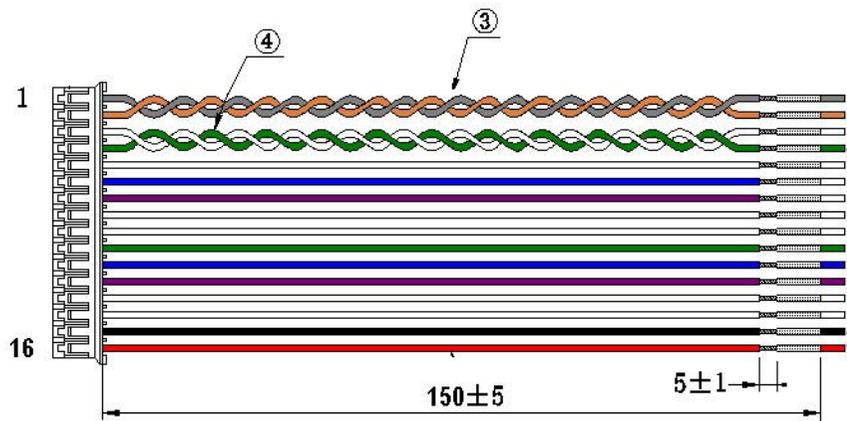
Master station 10" tablet(IP-5800) installation

- Introduction on unit

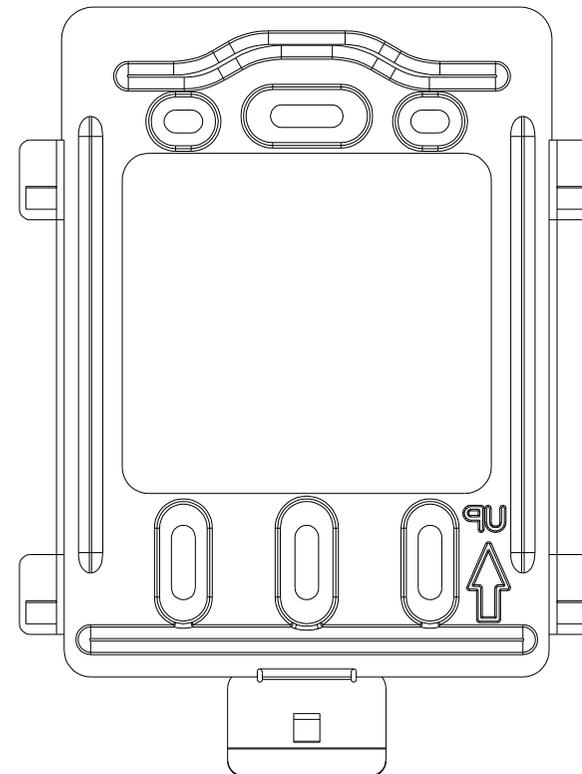


Main installation accessory

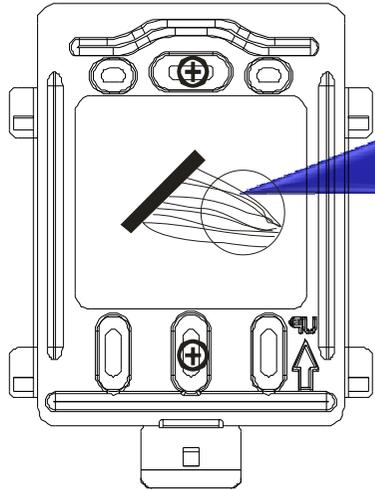
16 wires cable set



Wall Mount bracket

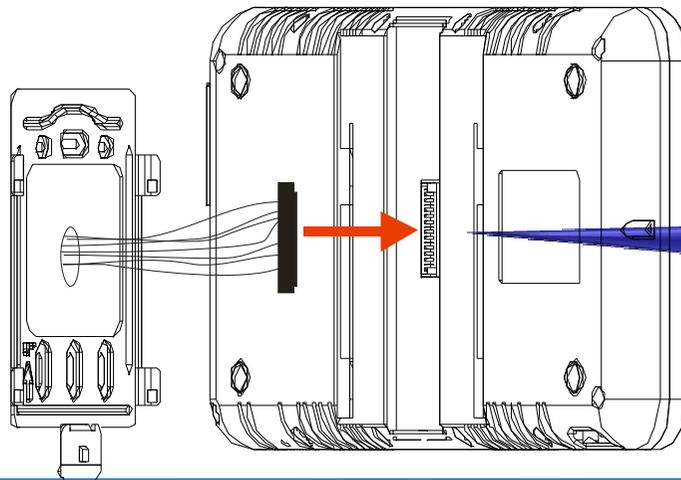
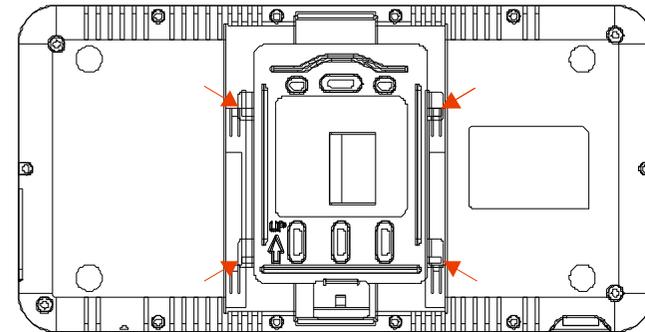


Installing the Wall Mount bracket



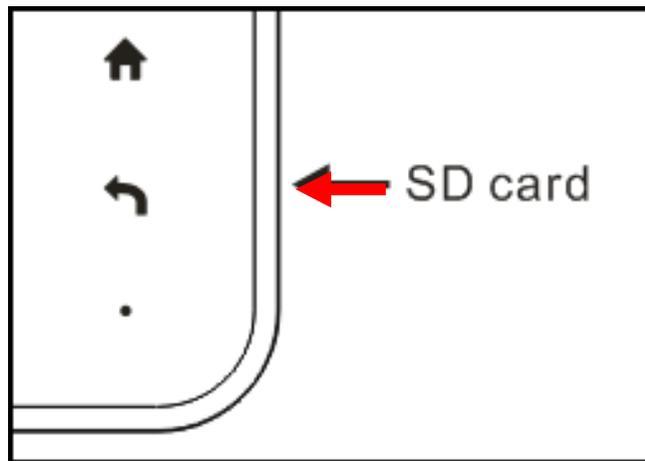
the center height of unit is about 130CM, which is fit for the user who is around 160 CM ~ 180CM/6' tall. Connecting the cable set through the center of bracket.

- Place unit on the front of wall mount bracket. Shown as follows:

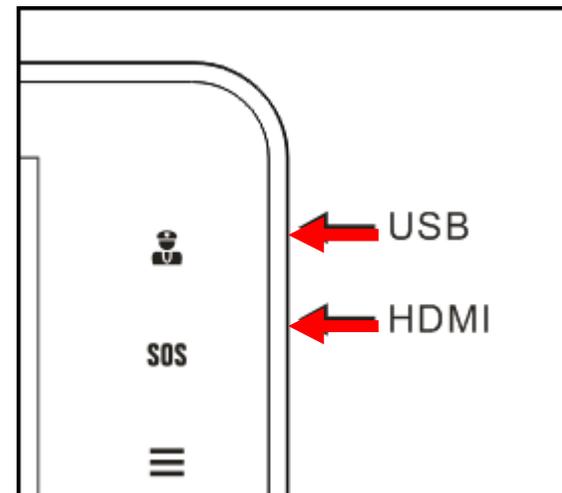


Connect the cable set to the unit firmly.

- Insert SD card:

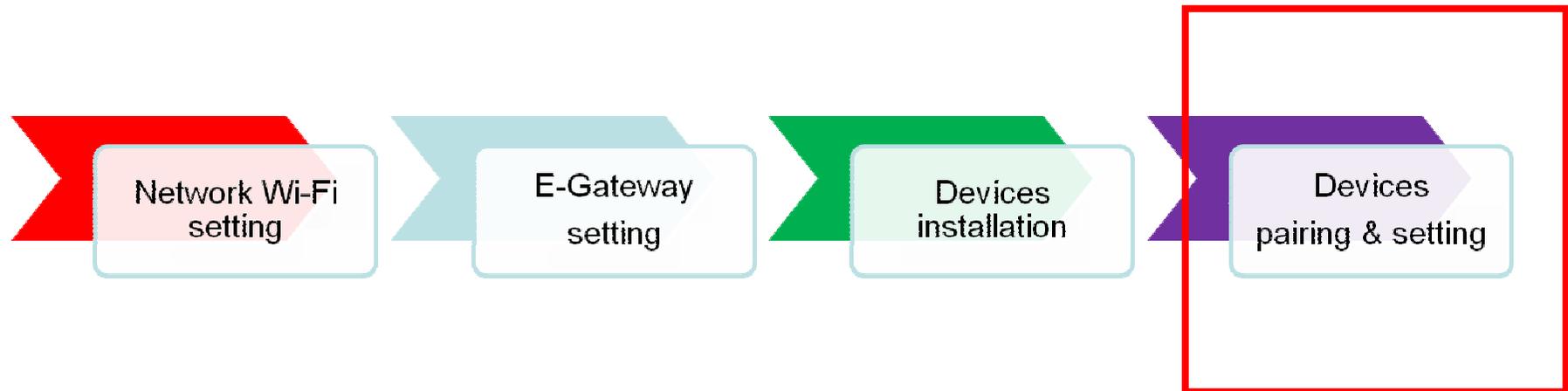


- USB port can be connected with USB keyboard or mouse.
- HDMI port can be connected to TV



Note

Installation steps



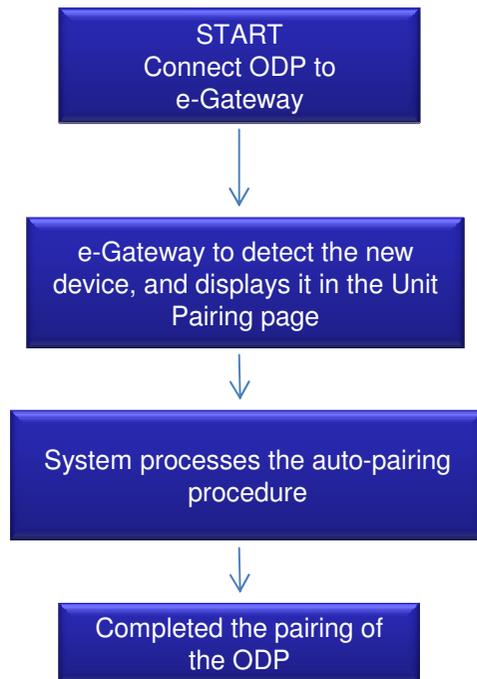
Starting up the settings & pairing



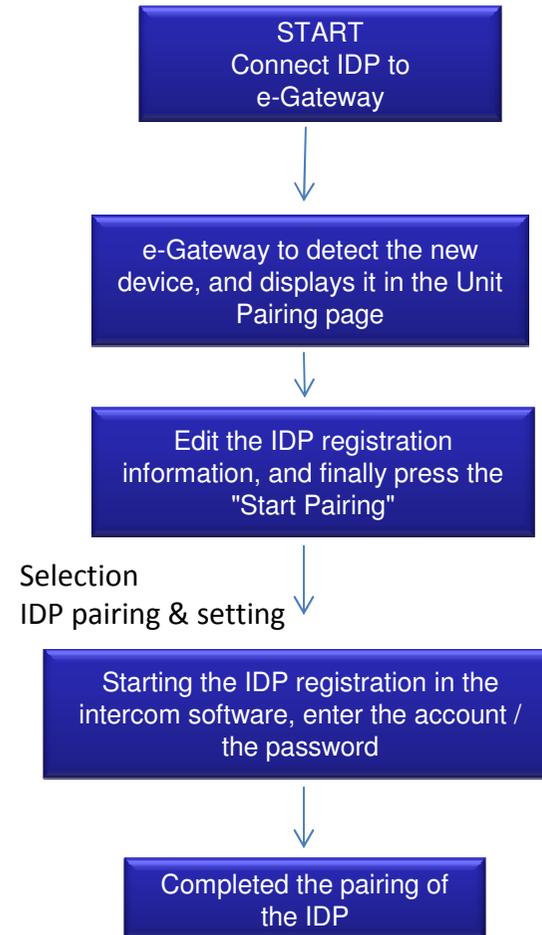
- Precaution:
 - User must complete the pairing of devices (ODP, IDP, IP Phone and Smart Phone) to e-Gateway, then those can be used in accordance with the intercom functionality as defined.
- Setting list:
 - ODP/10" IDP
 - IP Phone
 - Mobile tablet
 - Smart Phone
 - iPhone
- NOTES:
 - The following list is a brief overview of the setting items available in the system settings. The descriptions, and the style and order of descriptions do not necessarily equate with the actual displays.
 - Make a note of the setting results you have made by using the setting Information memo in case of unexpected data erasure, and keep it in a safe place not to lose it.

ODP/IDP pairing and setting flow

Outdoor phone auto-pairing

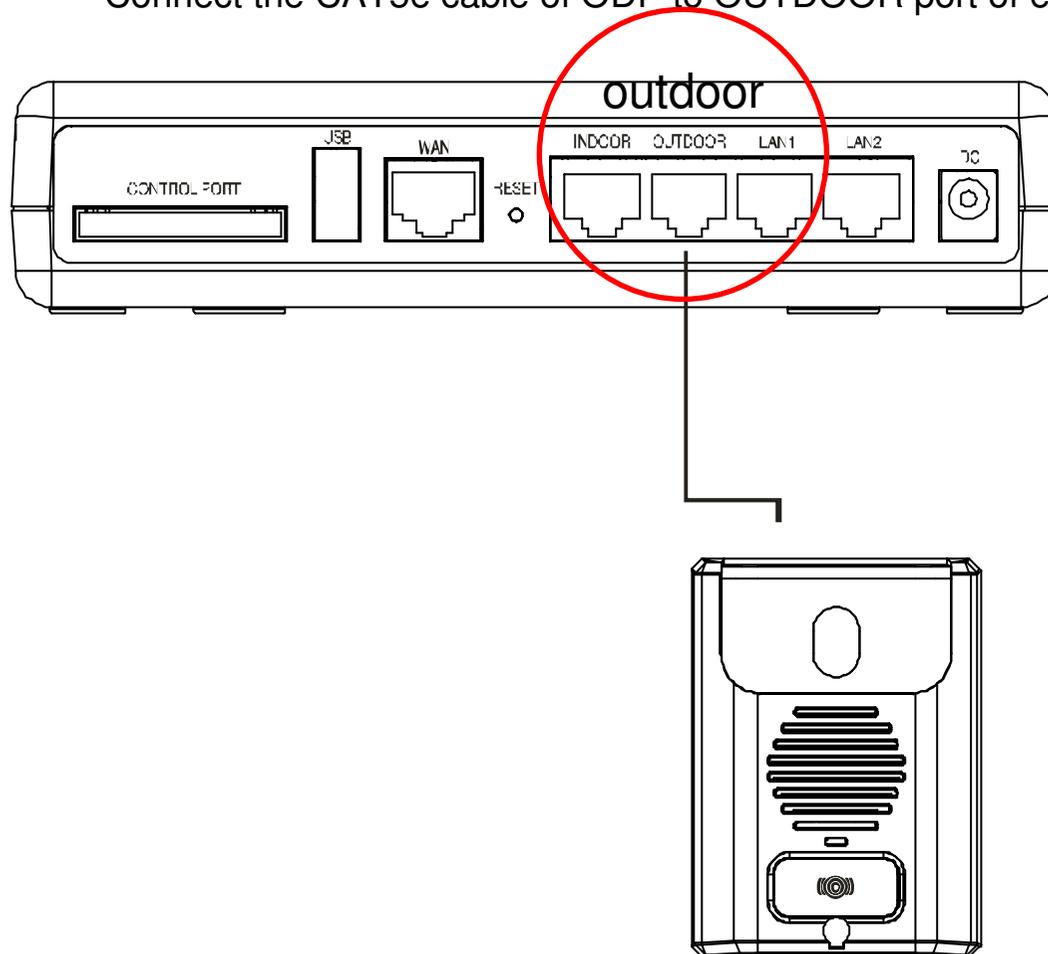


Indoor phone pairing procedure



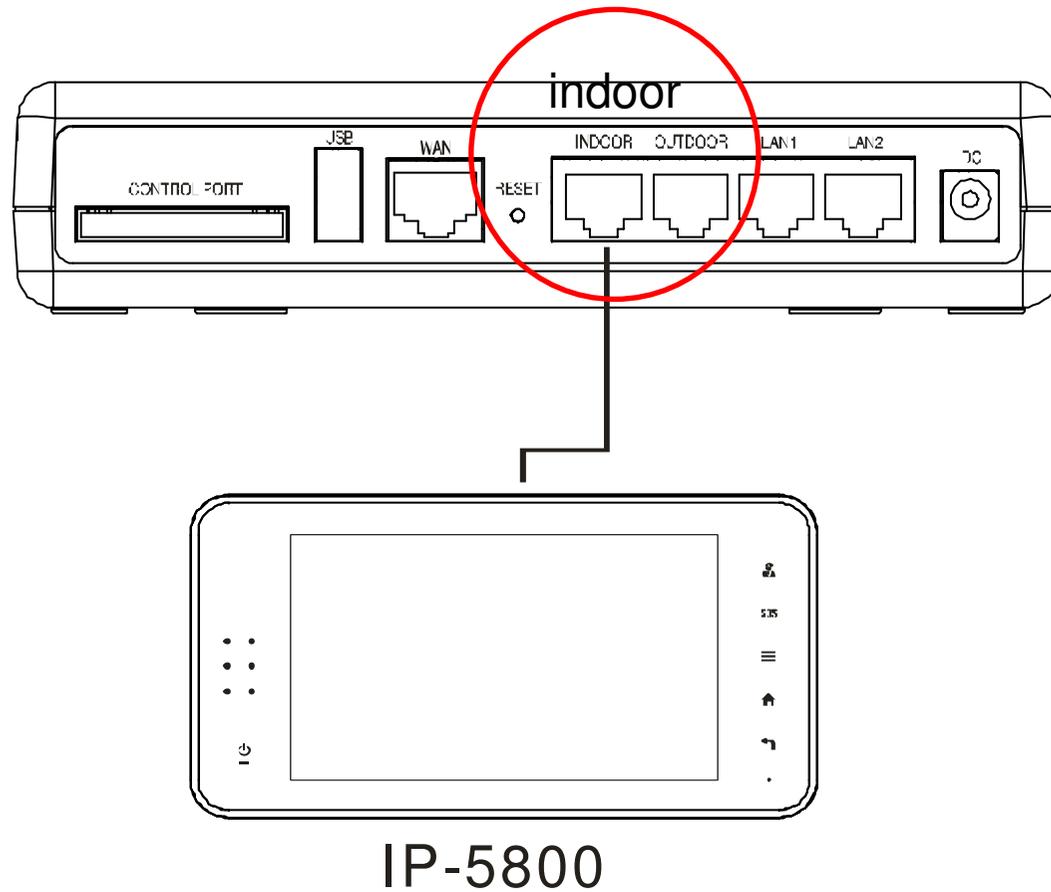
Devices connection to e-GW

- Connect the CAT5e cable of ODP to OUTDOOR port of e-GW

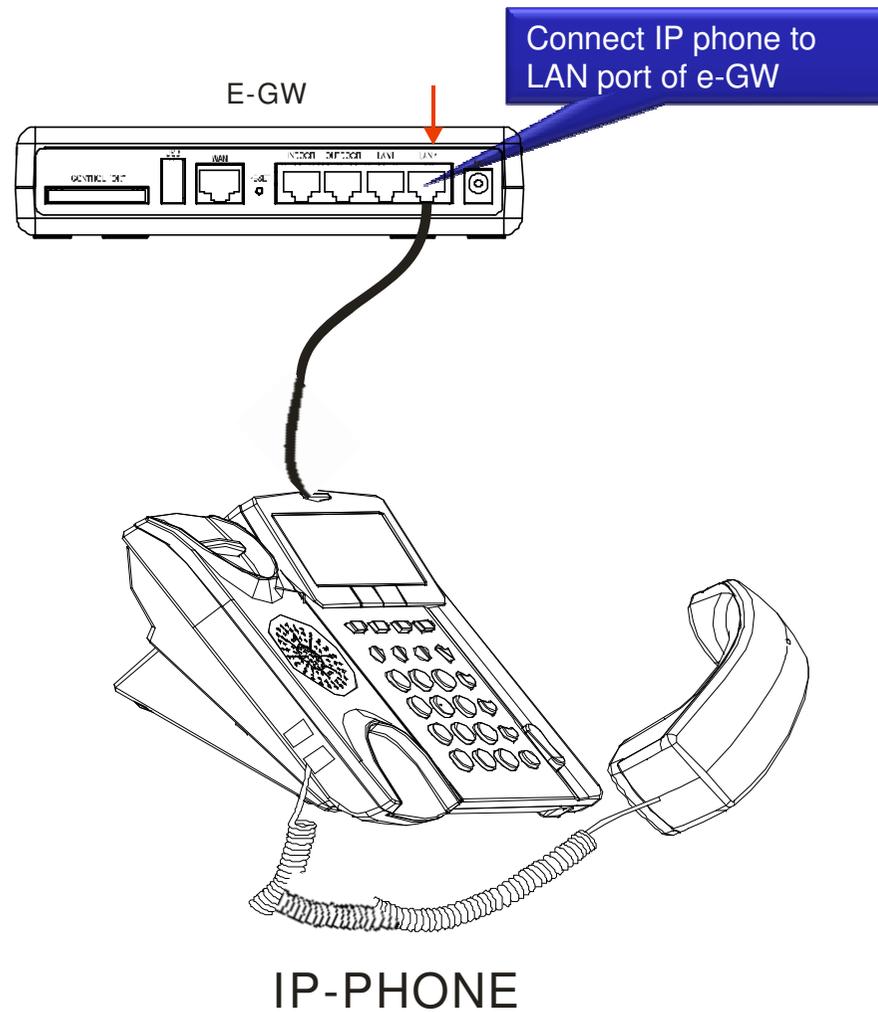


Devices connection to e-GW

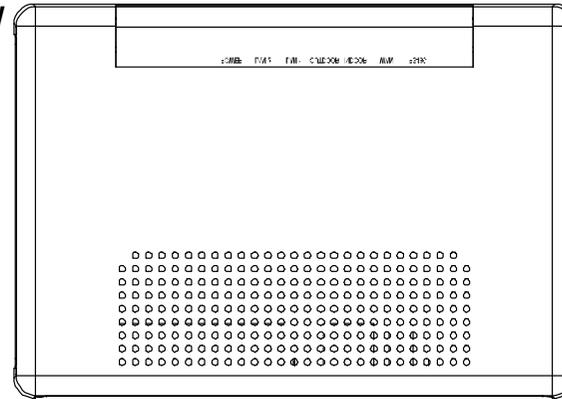
Connect the CAT5e cable of IP 5800 10" tablet to INDOOR port of e-GW



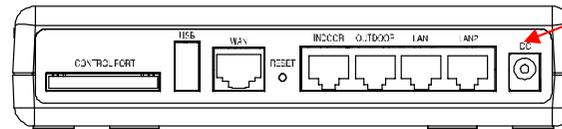
Devices connection to e-GW



- Connect power adapter to e-GW



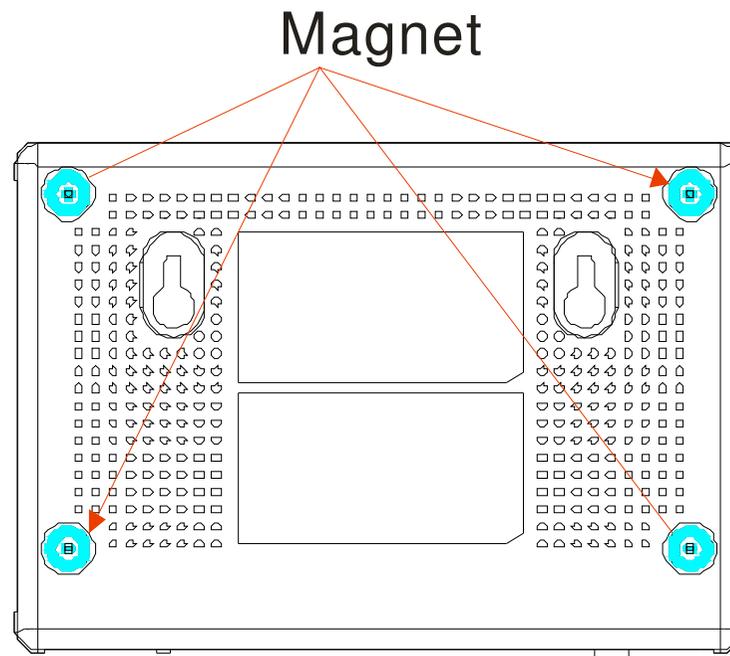
Power input



- View the LED up after connected power



-
- A magnet is at the bottom of e-GW, it can be installed in the iron products such as transformer box



Central control unit: e-Gateway features

- IP addressable adapter
- Compliant to
 - Android, iOS
- Connects using CAT 5e cable
- Provides :
 - Z wave Interface
 - 8DI / 4DO / RS 485 Interface
 - VoIP (SIP) server
 - Add-on value:
 - Alarm/Security device connectivity
 - Automation Control

E-Gateway unit



IP addressable adapter

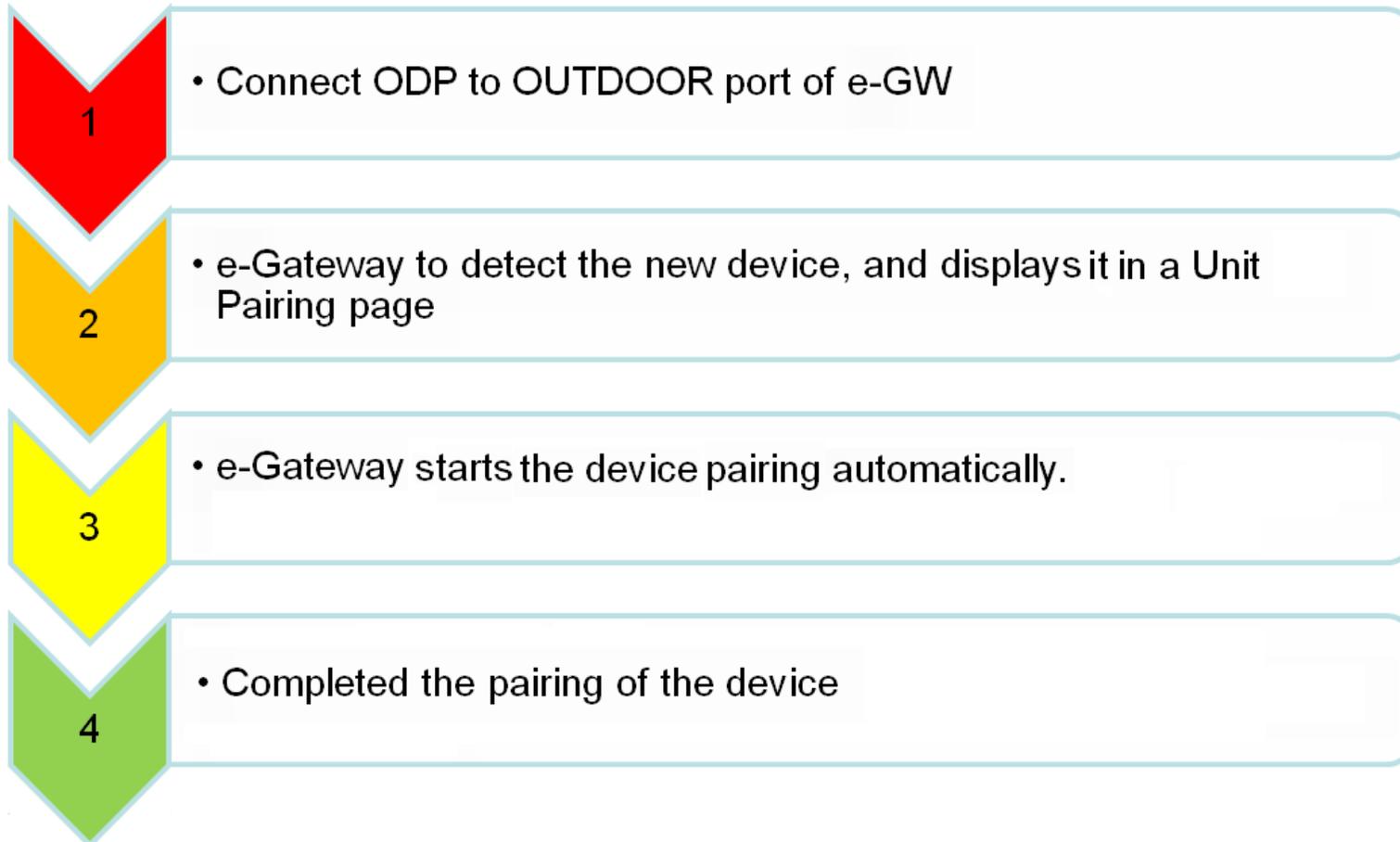
Specification

FE	<ul style="list-style-type: none"> • 1 x FE/fast Ethernet for WAN • 4 x FE/fast Ethernet for LAN
USB Host 2.0	<ul style="list-style-type: none"> • Support Z-wave Dongle plug in
Digital Input & output	<ul style="list-style-type: none"> • 8 x DI ; 4 x DO
RS-485	<ul style="list-style-type: none"> • 1 X RS-485, • For connecting access control/alarm device & digital input/output device extension
Dimension	<ul style="list-style-type: none"> • 170 mm * 115 mm * 37mm (L x W x H)
Support protocol	<ul style="list-style-type: none"> • SIP 2.0 (RFC 3261)/TCP/IP/UDP, RTP, HTTP, ARP, ICMP, DHCP, DNS, TFTP, NTP



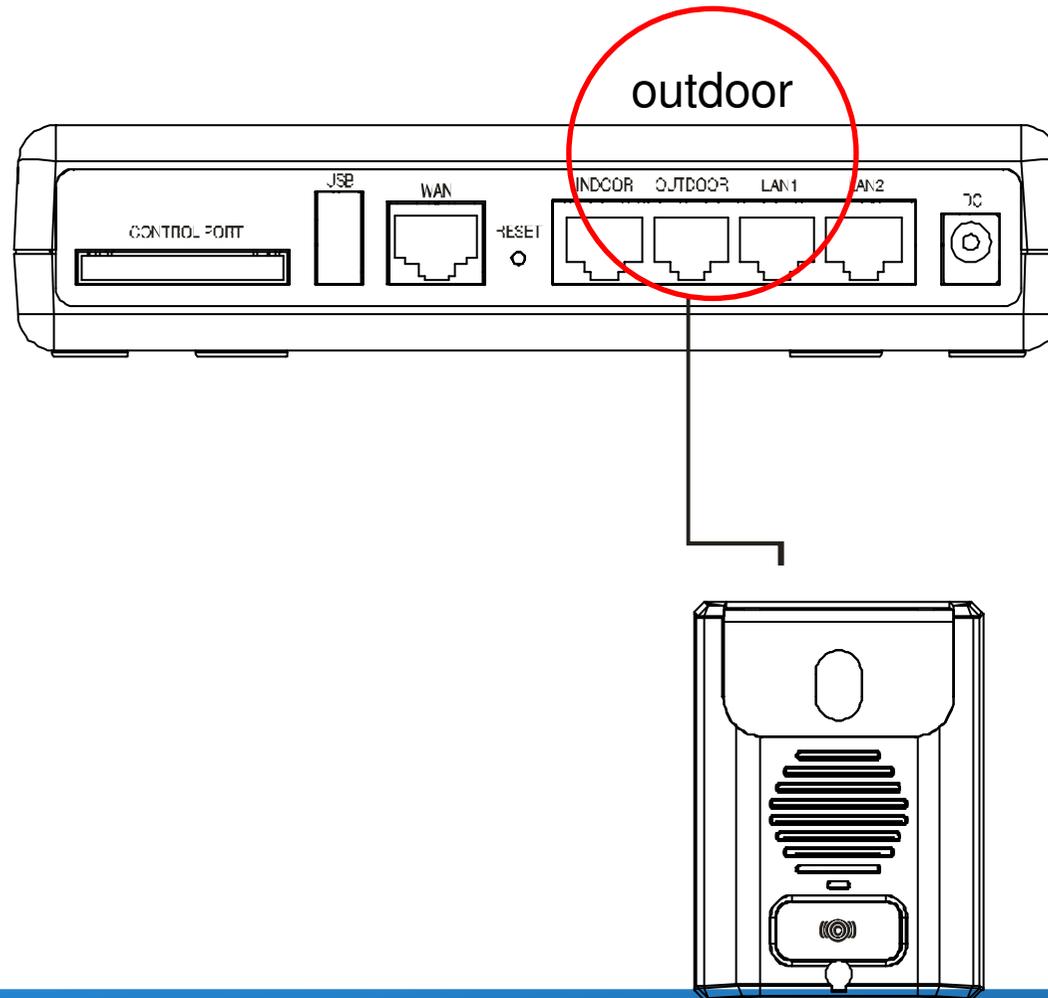
Note

Outdoor phone auto pairing



Connection Outdoor to e-Gateway

- When the outdoor phone connects to e-Gateway, the system will finish the pairing procedure automatically without any operation.



ODP pairing successful

When ODP pairing successful, the LED stops flashing and then off.



In the "Unit Pairing" page of e-Gateway

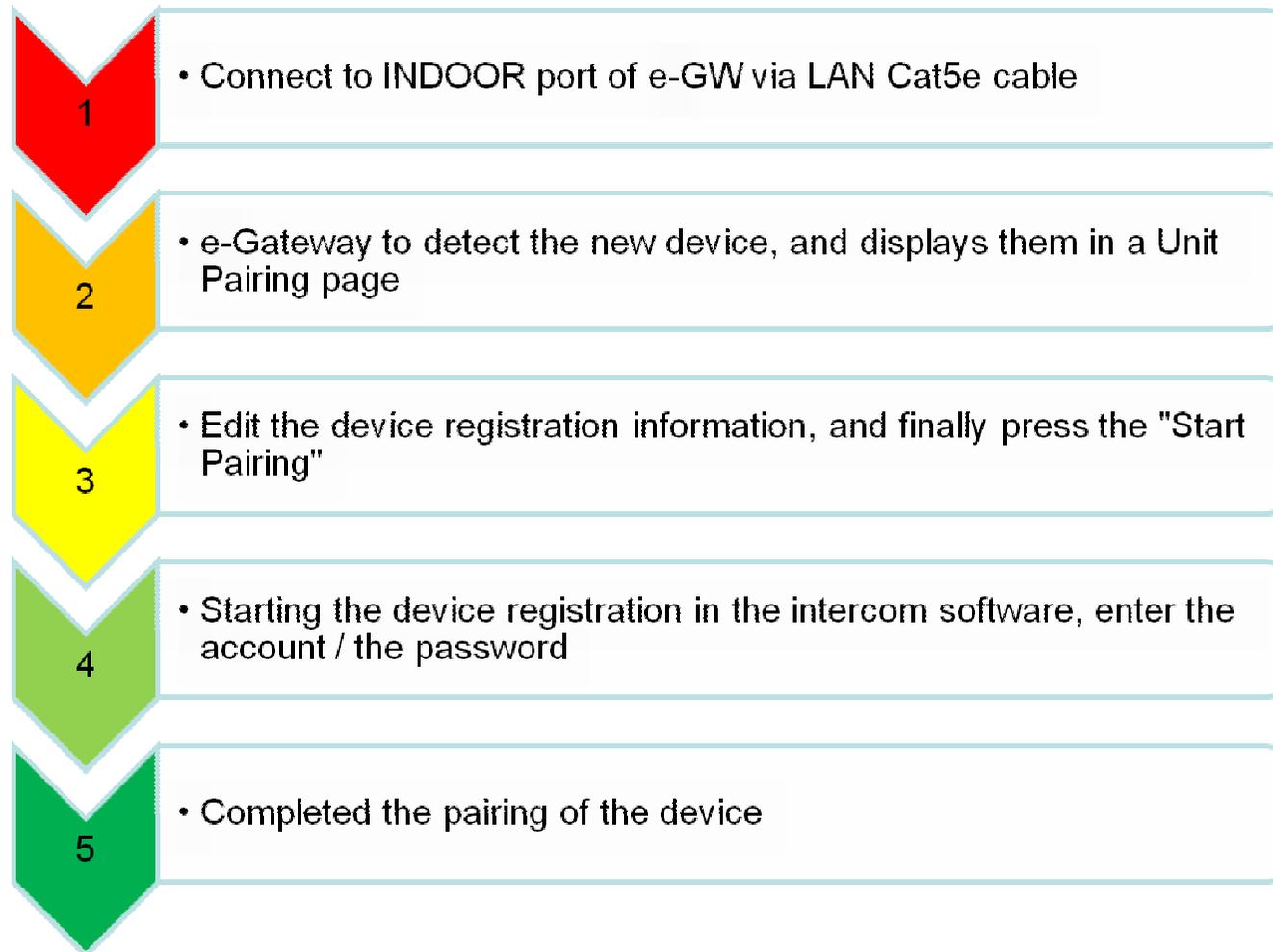
- Name of device is listed " OUTDOOR PHONE ",
- Status is indicated " CONNECTED ".



Name	Type	Account	Password	MAC Address	Status	Select
Outdoor Phone	Outdoor Unit	100	t3VdD9	00:19:15:d2:cf:a2	Connected	<input type="checkbox"/>
Indoor Phone	Indoor Phone	101	EmXpZ2	00:19:15:1d:53:f8	Initial	<input type="checkbox"/>

Note

10" tablet(IP-5800) pairing and setting flow



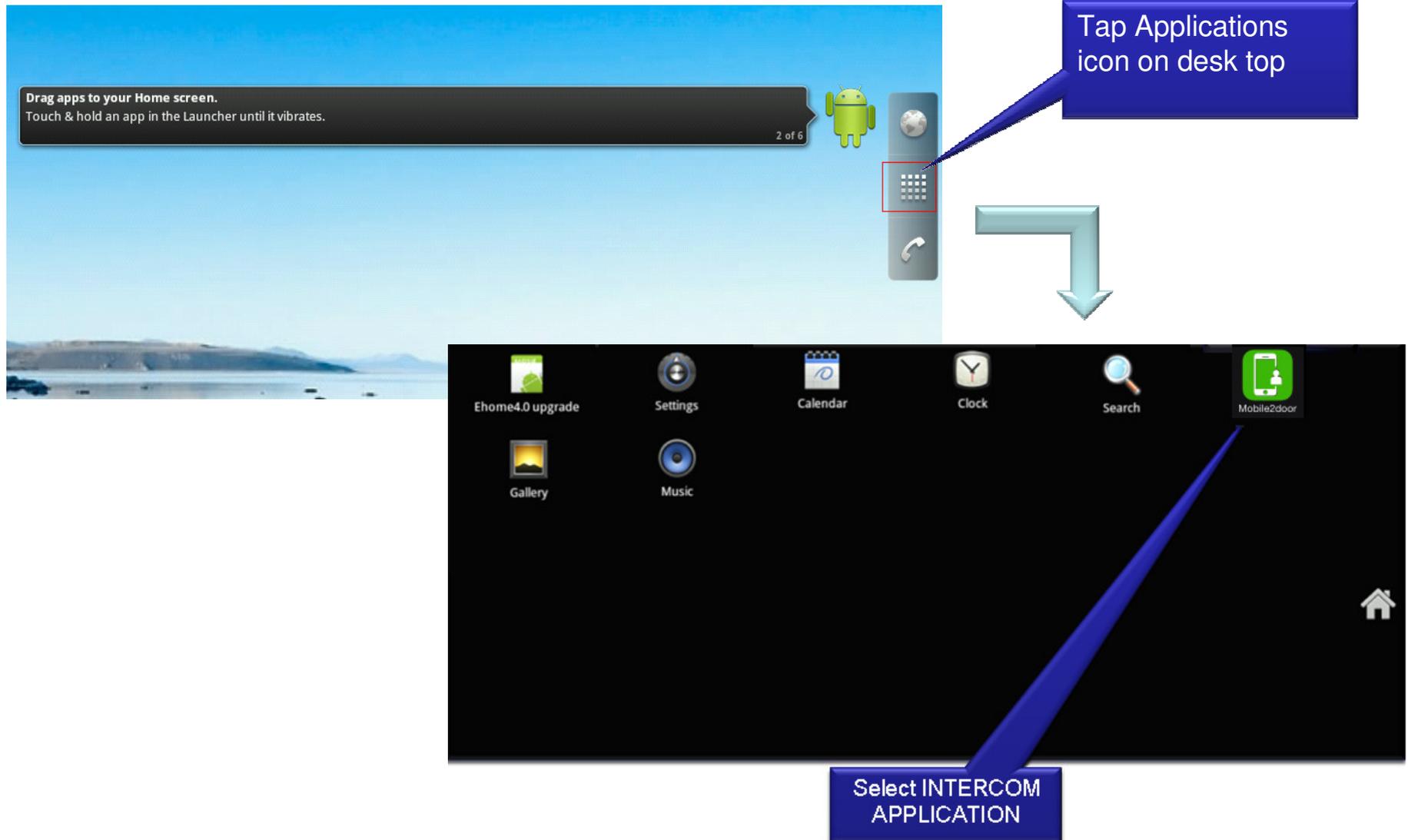
Device pairing to e-GW

- Connect PC to the LAN Port of e-Gateway,
- Open the browser to log in to the e-Gateway Web page (the default the IP: 192.168.0.10, Account: admin, Password: admin)
- Click the Settings -> Unit pairing.

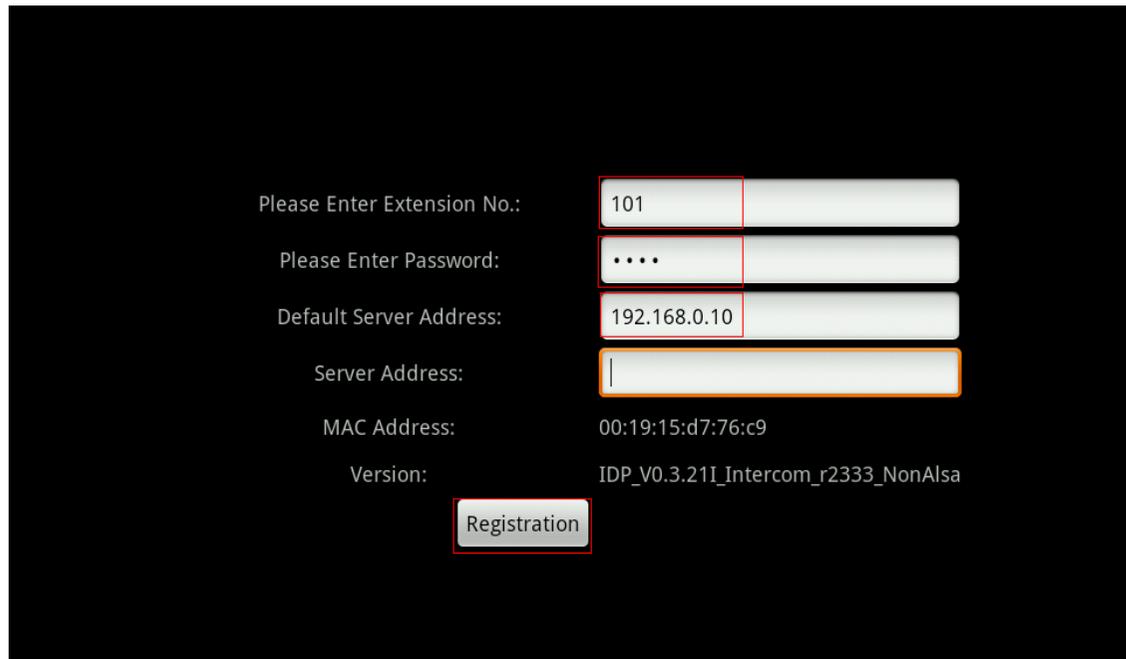
- E-GW will identify the tablet unit(IP 5800) and indicate in “ UNIT PAIRING INFORMATION “ as indicated.
- Click – SELECT.
- Press – EDIT

- Name: enter the appropriate name according to personal needs.
- Type: INDOOR PHONE
- Account: Please fill in the range of 100 to 109 numbers, and this number is not registered with other device .
- Password: can be re-configured according to individual needs.
- Press SAVE
- Press – START PAIRING

10" Tablet operation



Registration to e-GW



The image shows a registration form for an e-GW. The form is displayed on a black background with white text and input fields. The fields are as follows:

Please Enter Extension No.:	<input type="text" value="101"/>
Please Enter Password:	<input type="password" value="...."/>
Default Server Address:	<input type="text" value="192.168.0.10"/>
Server Address:	<input type="text"/>
MAC Address:	00:19:15:d7:76:c9
Version:	IDP_V0.3.21I_Intercom_r2333_NonAlsa

Below the form is a button labeled "Registration".

- “Extension No” => Enter extension.
- “Password” => Enter password.
- “Default Server Address” => Enter default IP address is 192.168.0.10.
- “Server Address” => (remained in blank)
- (Server Address purpose is to provide smart phone / mobile device through 3G/Internet to remote access the eGW.)

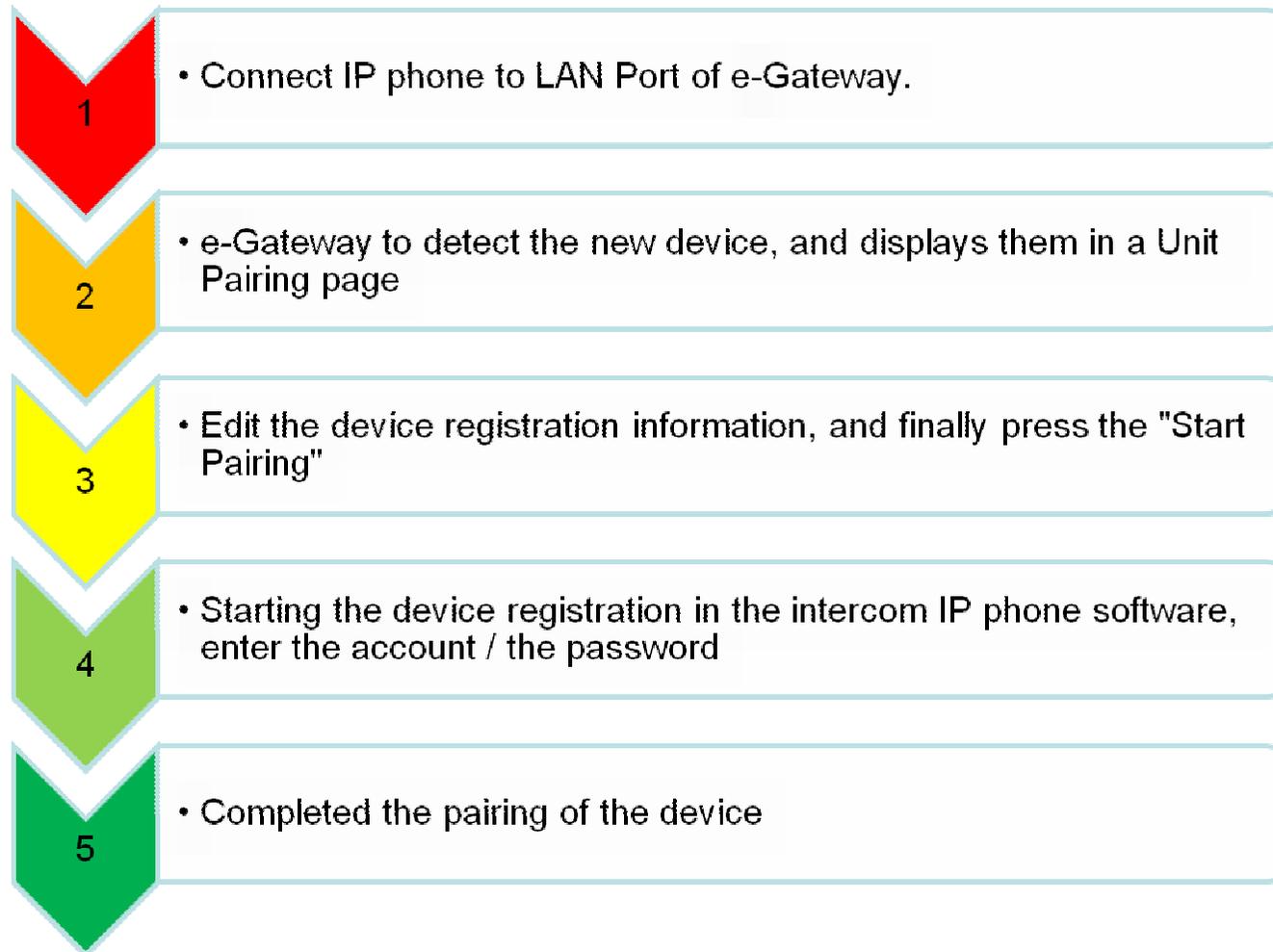
Main Mobile2Door Application

- The main page will appear when registration is completion.



Note

IP phone pairing and setting flow



Device pairing to e-GW

- Connect PC to the LAN Port of e-Gateway,
- Open the browser to log in to the e-Gateway Web page (the default the IP: 192.168.0.10, Account: admin, Password: admin)
- Click the Settings -> Unit pairing.

Name	Type	Account	IP Address	MAC Address	Status	Select
ODP	Outdoor Unit	100	192.168.0.12	00:19:15:d2:cf:a3	Connected	<input type="checkbox"/>
IP5800	Indoor Phone	101	192.168.0.14	7c:61:93:ff:5b:12	Configured	<input type="checkbox"/>
	Indoor Phone	102	192.168.0.16	00:19:15:6e:bc:8d	Initial	<input type="checkbox"/>
iPhone	Smart Phone	103	192.168.0.11	18:34:51:64:34:07	Connected	<input type="checkbox"/>

- E-GW will identify the IP phone unit and indicate in “ UNIT PAIRING INFORMATION “ as indicated.
- Click – SELECT.
- Press – EDIT

Name	Type	Account	IP Address	MAC Address	Status	Select
ODP	Outdoor Unit	100	192.168.0.12	00:19:15:d2:cf:a3	Connected	<input type="checkbox"/>
IP5800	Indoor Phone	101	192.168.0.14	7c:61:93:ff:5b:12	Configured	<input type="checkbox"/>
	Indoor Phone	102	192.168.0.16	00:19:15:6e:bc:8d	Initial	<input checked="" type="checkbox"/>
iPhone	Smart Phone	103	192.168.0.11	18:34:51:64:34:07	Connected	<input type="checkbox"/>

- Name: enter the appropriate name according to personal needs.
- Type: Indoor PHONE
- Account: Please fill in the range of 100 to 109 numbers, and this number is not registered with other device .
- Password: can be re-configured according to individual needs.
- Press SAVE
- Press – START PAIRING

Edit Unit

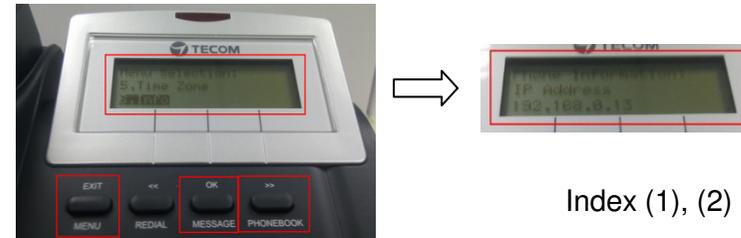
Unit Information

Name	IP phone
Type	Indoor Phone
Account	102
Password	102
MAC Address	00:19:15:6e:bc:8d
IP Address	192.168.0.16
Status	Initial

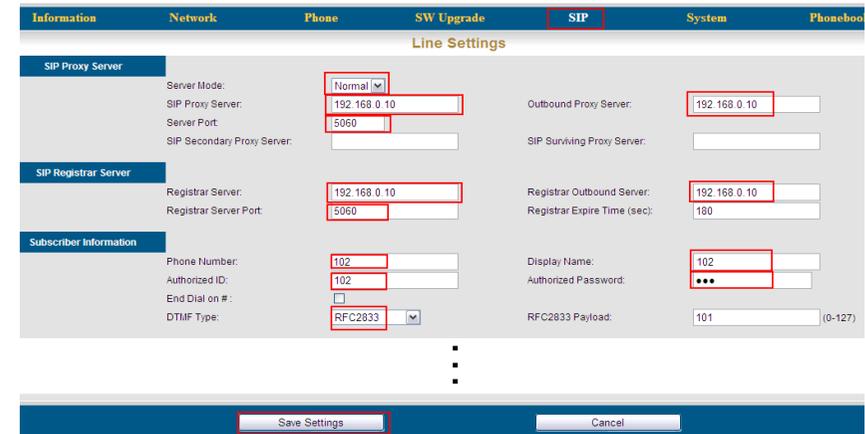
Buttons: Save, Start Pairing, Stop Pairing

IP phone setting(in IP phone setting software)

1. When the IP Phone is connected to the e-Gateway, IP Phone will obtain the IP address from the e-Gateway automatically.
2. To obtain the IP Phone IP address.
 - 1) Press the "Menu" button to enter the Menu Selection screen.
 - 2) Press the forward ">>" button to select "6. Info" item, then press "OK" button to enter the "Info" option.
 - 3) User can press the forward ">>" button to select "IP Address" to access the IP Phone IP address.
3. Setting in IP phone software
 - 1) to obtain the IP Phone IP address first,
 - 2) using PC browser, enter IP Phone IP Address ,
 - 3) the default Account: admin, Password: 1234
 - 4) Select the SIP item, enter the "SIP" page to complete the setup changes,
 - 5) Press the "Save Settings" button to save the settings.
4. After completing the registration, the IP Phone will display the extension number.



Index (1), (2)



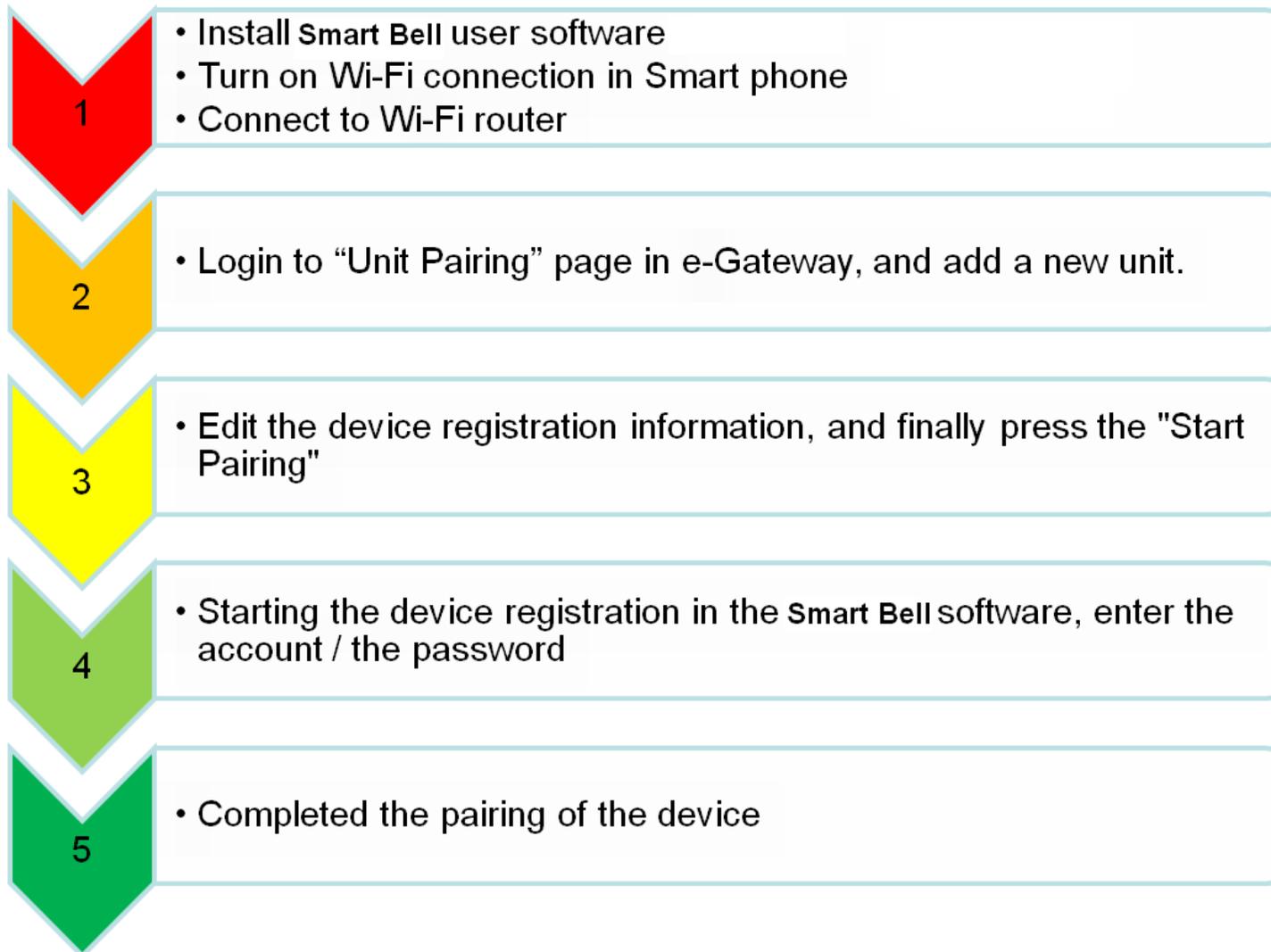
Index (3)



Index (4)

Note

Android Smart phone pairing and setting flow



SMP and Wi-Fi Requirement for Smart Bell System



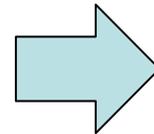
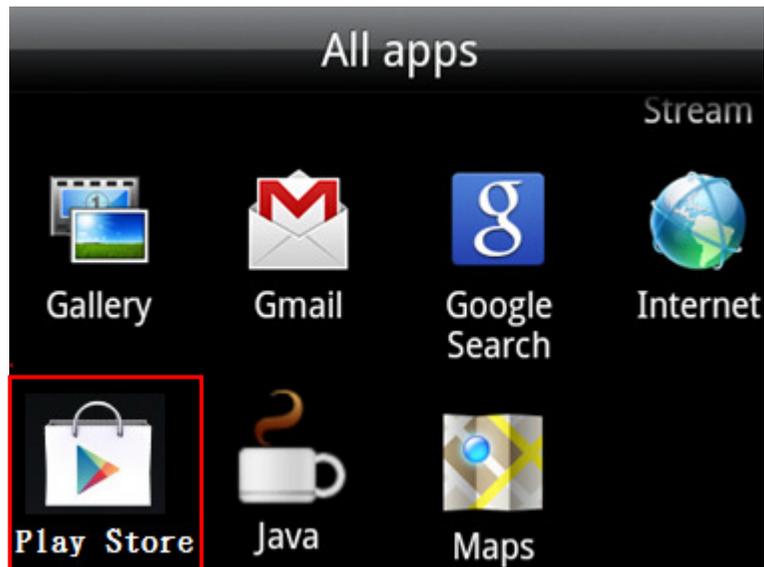
- Recommend specification on Android Smart phone
 - CPU clock: 1024 MHz or above
 - Memory Size: 1GB ROM + 512 MB RAM or above
 - LCD Resolution: 800 * 480 or above
 - LCD Size: over 3.5 " or above.
 - Operation System: Android 2.3 or above
 - Reference model
 - Samsung SII or above
 - HTC ONE series
- Recommend specification on iPhone Smart phone
 - Reference model
 - iPhone 4 or above.
- Recommend specification on Wi-Fi router
 - Standard: 802.11 b/g/n
 - Wireless Signal Rates: 300Mbps
 - Antenna Gain; 2dBi
 - MIMO: 2T2R
 - QoS Management
 - DDNS Support.
 - Reference model
 - TP-Link TL-WR841N(D), D-Link DIR-615.

IMPORTANT! The devices mentioned here are not guaranteed operation and compatibility with our hardware & software. It is very likely that suppliers have their own proprietary design involved and not fully compliant with standard, so it is possible that a device, will not prove compatible with our hardware & software.

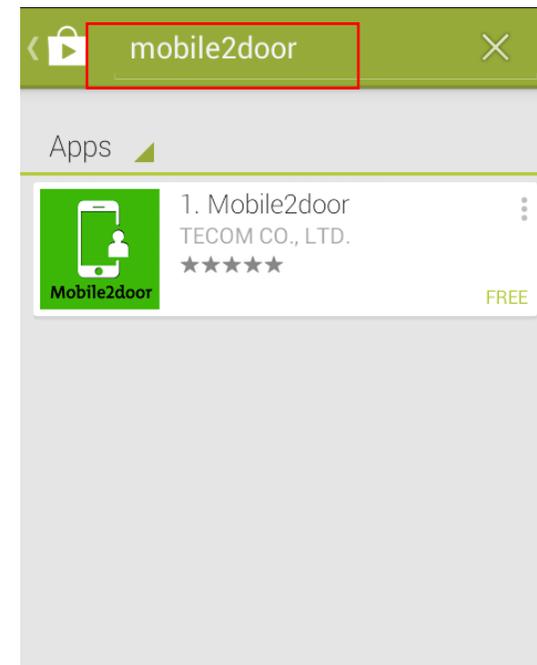
Install Smart Bell User Software (**Mobile2door**)

- Install the “Mobile2door” from App Store.

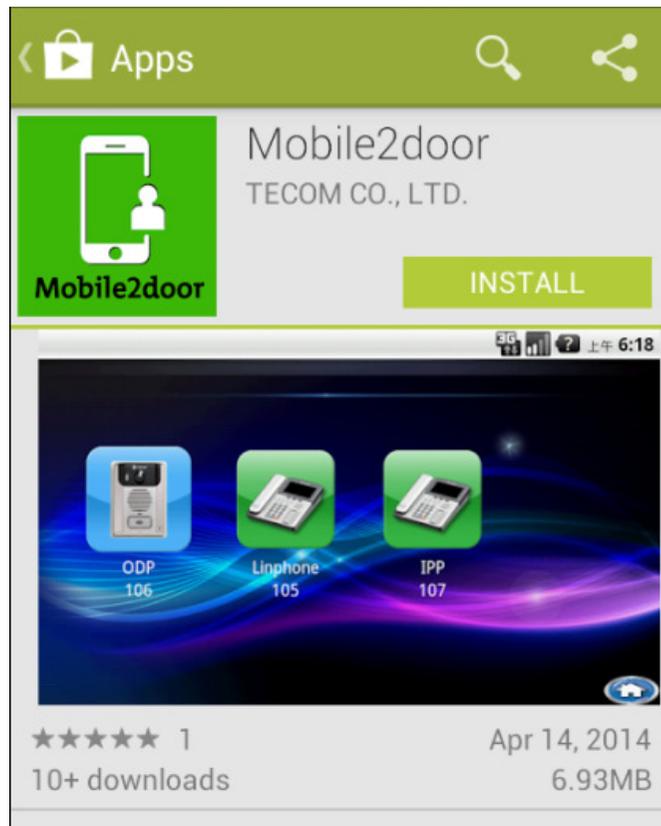
Tap “Play Store”.



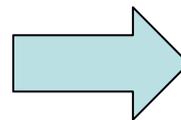
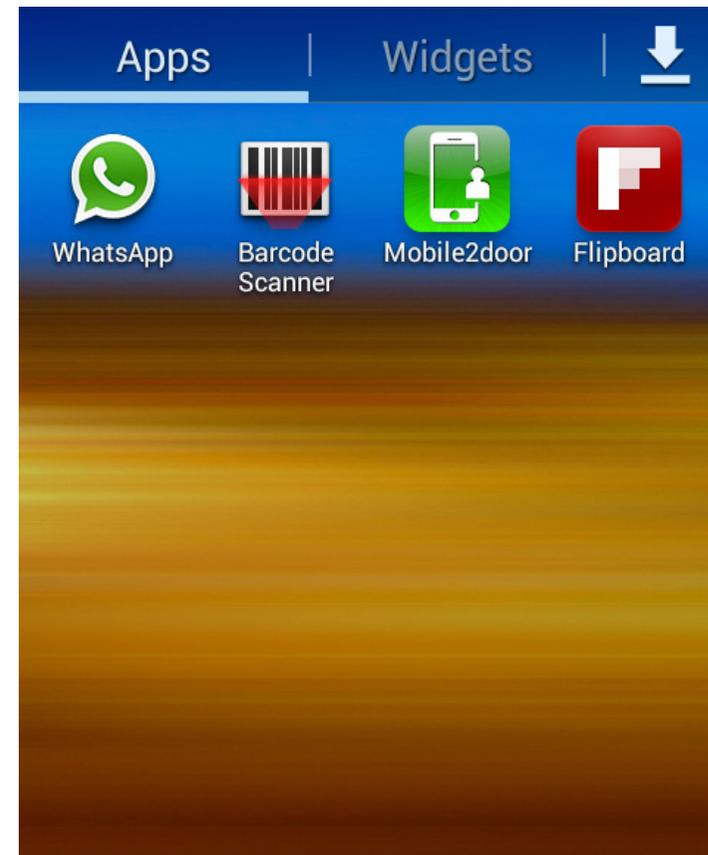
Search keyword “mobile2door”, and then tap “Mobile2door” icon from the Apps list.



Tap “INSTALL” button.

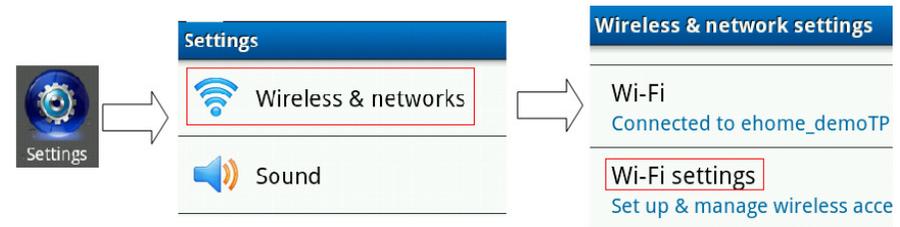


After installation finish, the “Mobile2door” icon appeared in “All apps” page.

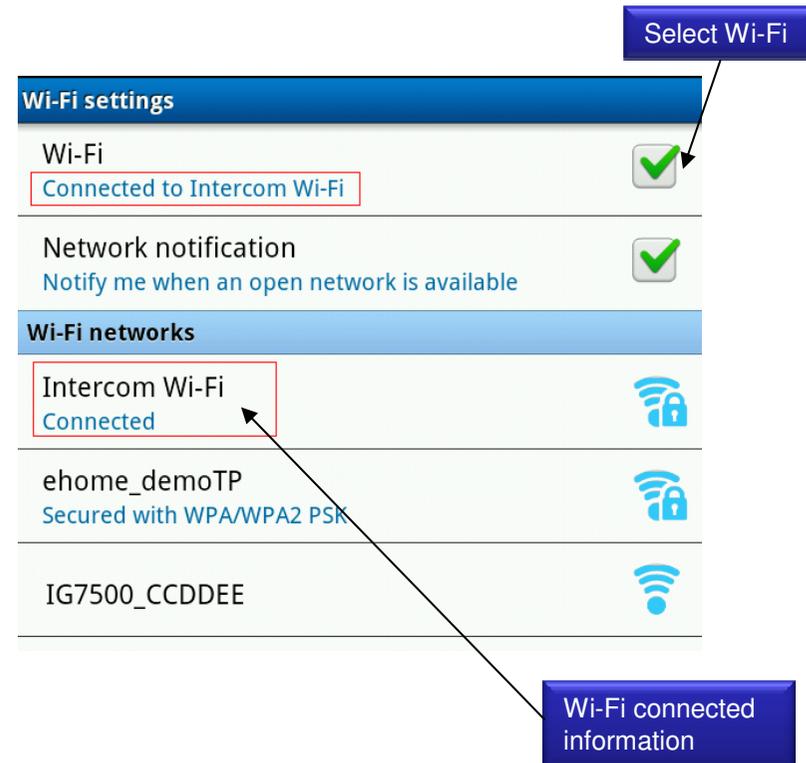


Initiate Wi-Fi setting

- Click on “Wireless & networks”.
- Select “Wi-Fi settings” .



- Enable “Wi-Fi”, the system will proceed the signal scan/browsing.
- In the “Wi-Fi networks” list, choose SSID of Wi-Fi AP. (For Example, the SSID is Intercom Wi-Fi.)
- Identify the system is connected.
- As message: ”Connected to Intercom Wi-Fi”.



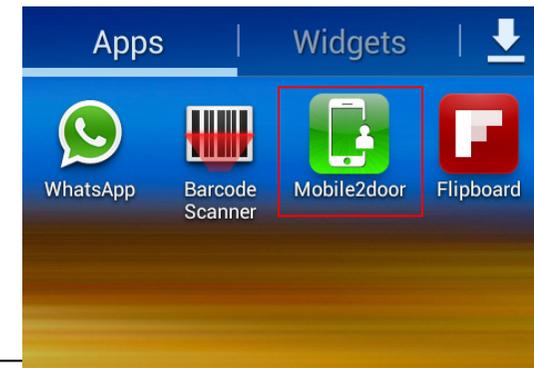
Device pairing to e-GW

- Connect PC to the LAN Port of e-Gateway,
- Open the browser to log in to the e-Gateway Web page (the default the IP: 192.168.0.10, Account: admin, Password: admin)
- Click the Settings -> Unit pairing.

- Press “Add” button to add a new Unit, and then select it.
- Click – SELECT.
- Press – EDIT

- Name: enter the appropriate name according to personal needs.
- Type: SMART PHONE
- Account: Please fill in the range of 100 to 109 numbers, and this number is not registered with other device .
- Password: can be re-configured according to individual needs.
- Press SAVE
- Press – START PAIRING

- Select the Mobile2door app



- When the Smart phone has not been paired with e-GW, the following registration screen will appear.
- Fill out the following items, then tap the “Registration” button to start the registration procedure.
- “Extension No” => Enter account is inputted in e-gateway.
- “Registration No” => Enter password is inputted in e-gateway.
- “Default Server Address” => Enter the e-GW WAN IP assigned by Wi-Fi Router.
- “Server Address” => Enter the Wi-Fi Router WAN IP.
- The main page will pop-out when registration is completion.

Enabling the mobile device to be registered to e-GW via 3G/WAN, user is required to fill-in account/password, IP address/WAN of e-GW.

Please Enter Extension No.:

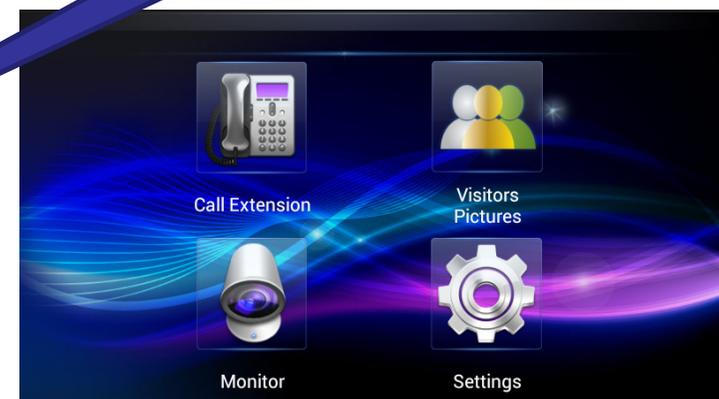
Please Enter Password:

Default Server Address:

Server Address:

MAC Address: 7C:61:93:A0:73:93

Version: SMP_V0.3.21I_Intercom_r2339



When the WAN connection of Wi-Fi router(use Static IP)

- “Extension No” => Enter account is inputted in e-gateway.
- “Registration No” => Enter password is inputted in e-gateway.
- “Default Server Address” => Enter the e-GW WAN IP assigned by Wi-Fi Router.
- “Server Address” => Enter the Wi-Fi Router WAN IP.
- The main page will pop-out when registration is completion.

Please Enter Extension No.:

Please Enter Password:

Default Server Address:

Server Address:

MAC Address: 7C:61:93:A0:73:93

Version: SMP_V0.3.21I_Intercom_r2339



When the WAN connection type of Wi-Fi router(use DHCP)

- “Extension No” => Enter account is inputted in e-gateway.
- “Registration No” => Enter password is inputted in e-gateway.
- “Default Server Address” => Enter the e-GW WAN IP assigned by Wi-Fi Router.
- “Server Address” => Enter the Host Name that you registered with your DDNS service provider..
- The main page will pop-out when registration is completion.



Please Enter Extension No.:

Please Enter Password:

Default Server Address:

Server Address:

MAC Address: 7C:6E:93:A0:73:93

Version: SMP_211_Intercom_r2339



When the WAN connection type of eGW set as DHCP, the WAN IP address of eGW is dynamic IP address. It is essential to have the correct IP address through DDNS

DDNS Settings

Dynamic DNS Provider	<input type="text" value="www.no-ip.com"/>
Account	<input type="text" value="tomddns002"/>
Password	<input type="password" value="....."/>
DDNS	<input type="text" value="intercomtest0407.no-ip.org"/>

(DDNS Settings screen of Wi-Fi Router)

When the WAN connection type of Wi-Fi router (use PPPoE)

- “Extension No” => Enter account is inputted in e-gateway.
- “Registration No” => Enter password is inputted in e-gateway.
- “Default Server Address” => Enter the e-GW WAN IP assigned by Wi-Fi Router.
- “Server Address” => Enter the Host Name that you registered with your DDNS service provider..
- The main page will pop-out when registration is completion.

Please Enter Extension No.: 104
Please Enter Password:
Default Server Address: 192.168.1.100
Server Address: intercomtest0407.no-ip.org
MAC Address: 7C:61:5A:00:73:93
Version: SMP_V0.0 Intercom_2339
Registration Demo



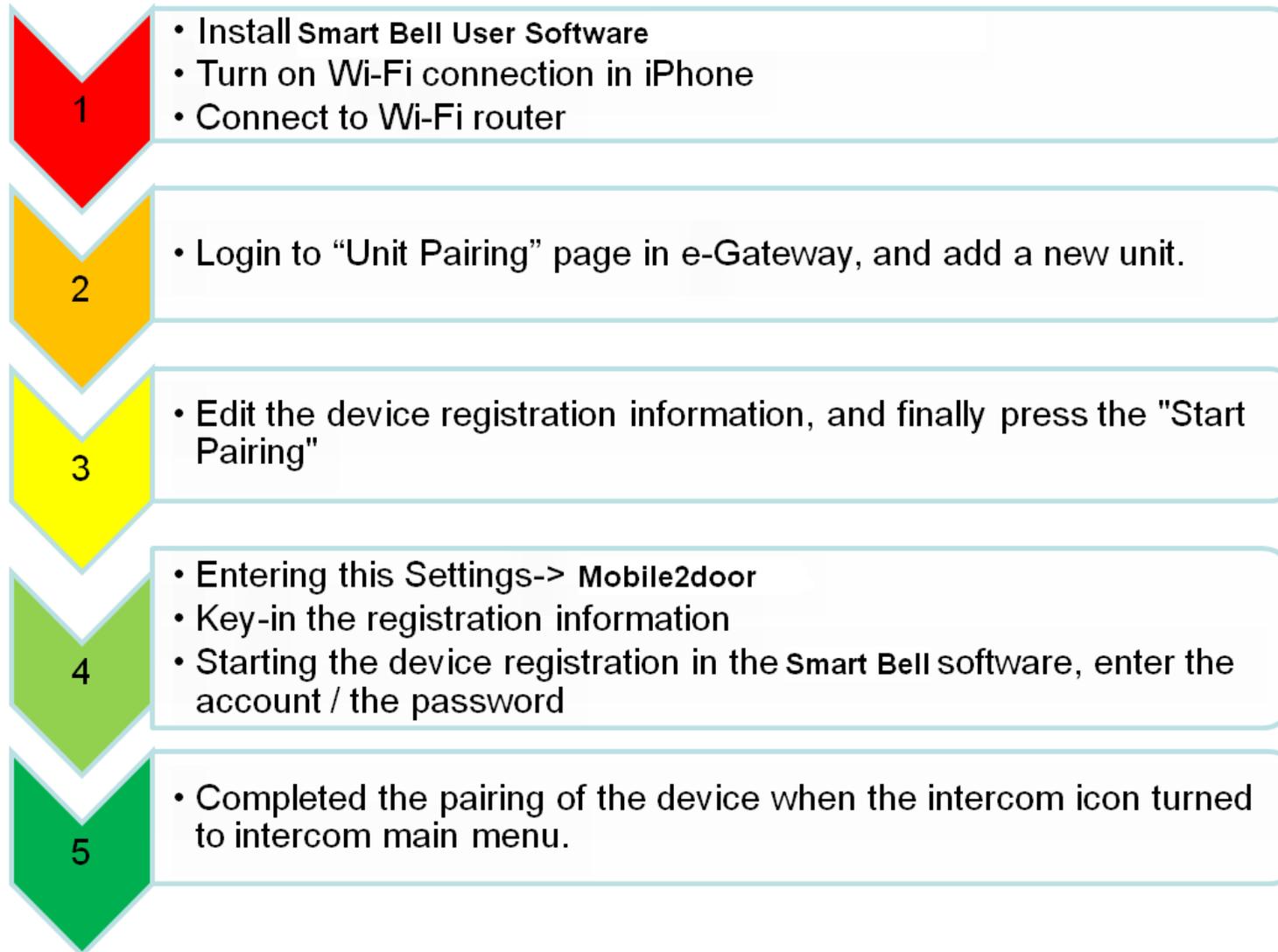
When the WAN connection type of eGW set as PPPoE, the WAN IP address of eGW is dynamic IP address. It is essential to have the correct IP address through DDNS

DDNS Settings

Dynamic DNS Provider	www.no-ip.com
Account	tomddns002
Password
DDNS	intercomtest0407.no-ip.org

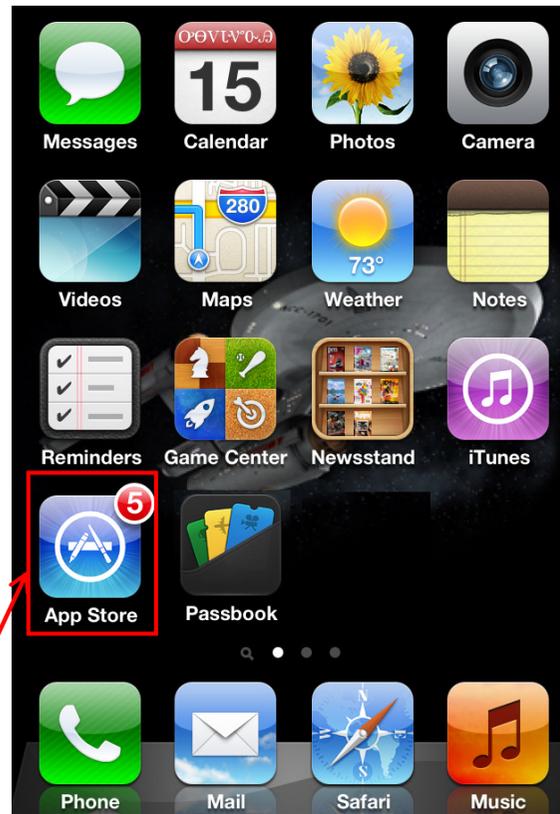
(DDNS Settings screen of eGW)

iPhone pairing and setting flow



Mobile2oor App Installation

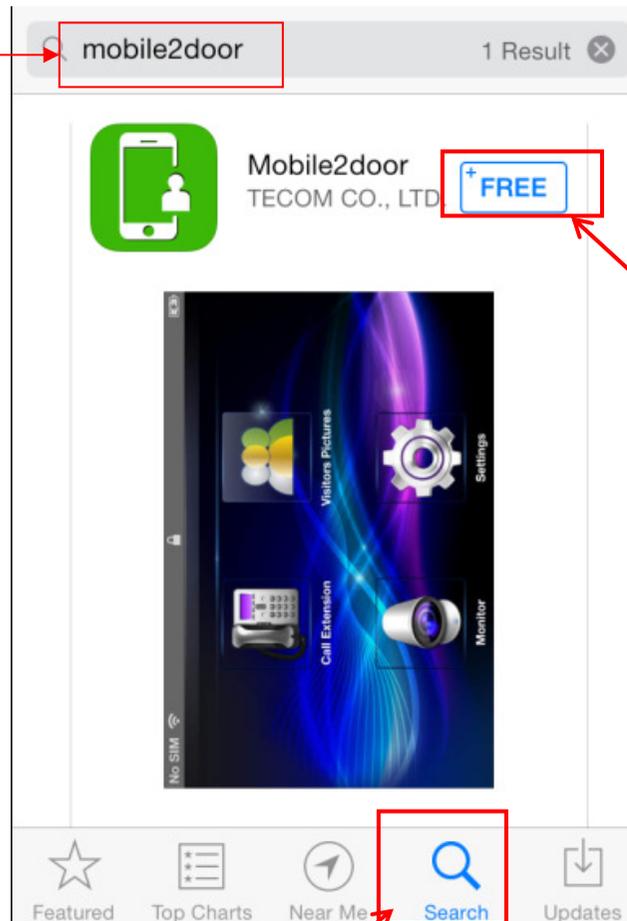
- Install the “Mobile2door” from App Store.



launch *App Store* from your Springboard.

- Search keyword “Mobile2door”, and then install it.

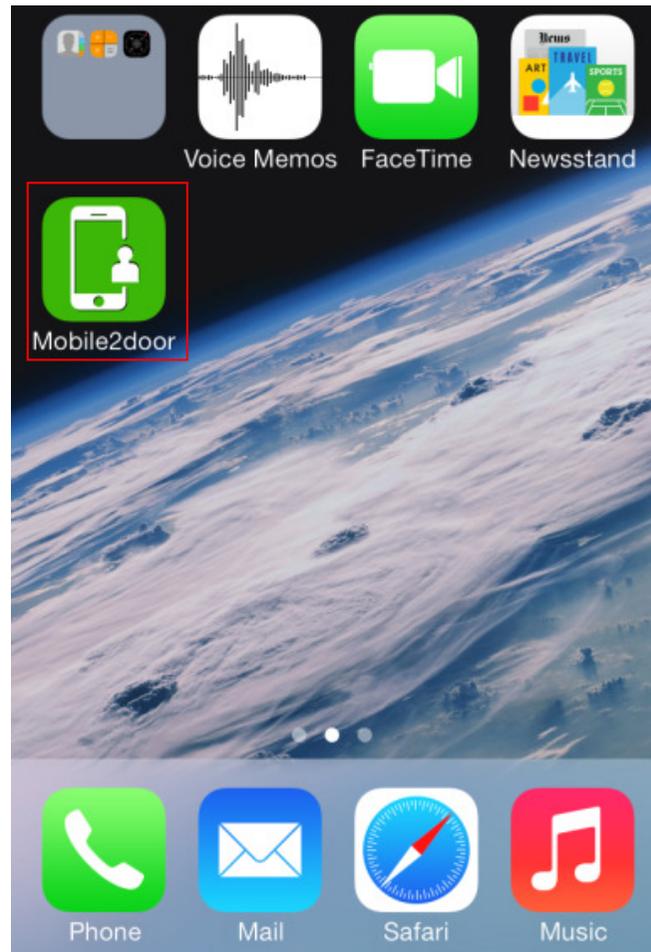
2. Input “mobile2door”.



3. Tap “FREE” button.

1. Press “Search”.

-
- The “Mobile2door” app appears on the springboard after installation finished.



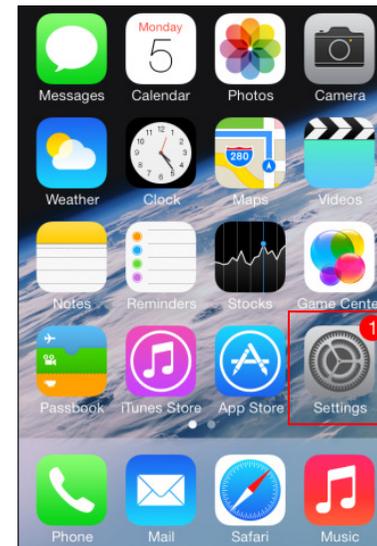
Device pairing to e-GW

- Connect PC to the LAN Port of e-Gateway,
- Open the browser to log in to the e-Gateway Web page (the default the IP: 192.168.0.10, Account: admin, Password: admin)
- Click the Settings -> Unit pairing.

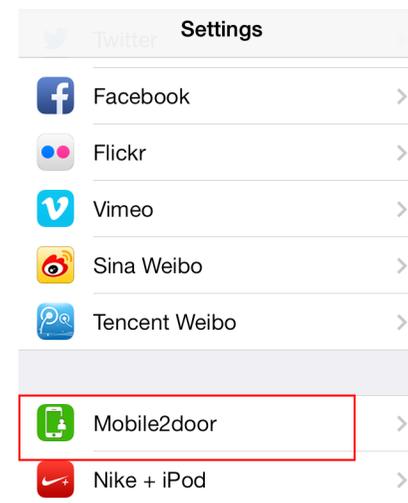
- Press “Add” button to add a new Unit, and then select it.
- Click – SELECT.
- Press – EDIT

- Name: enter the appropriate name according to personal needs.
- Type: Smart Phone
- Account: Please fill in the range of 100 to 109 numbers, and this number is not registered with other device .
- Password: can be re-configured according to individual needs.
- Press SAVE
- Press – START PAIRING

- Tap "Settings" icon.

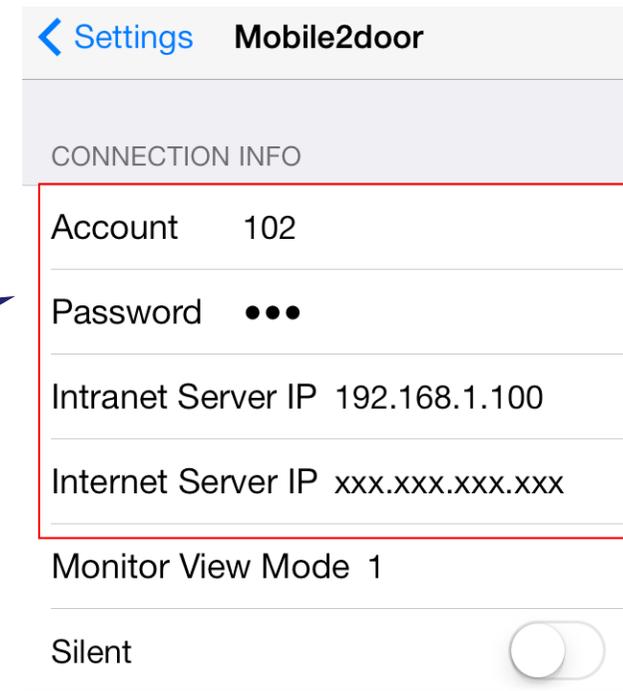


- Tap the "Mobile2door" item in the Settings screen.



- Connection Info field to enter Intercom Settings page, fill in the correct registration information.

In addition to fill in the registration of the account / password when registering, need to provide the Intranet Server IP address to eGW (please fill in the e-GW WAN IP address) and the Internet Server IP address (fill in the Wi-Fi Router WAN IP address). Set the Internet WAN IP address when the iPhone connected to 3G network to let iPhone via this IP address registered back to the e-GW.



The screenshot shows the 'Mobile2door' settings page. At the top, there is a back arrow and the text 'Settings Mobile2door'. Below this is a section titled 'CONNECTION INFO'. This section contains four rows of information: 'Account 102', 'Password ●●●', 'Intranet Server IP 192.168.1.100', and 'Internet Server IP xxx.xxx.xxx.xxx'. Below the 'CONNECTION INFO' section, there is a 'Monitor View Mode 1' setting and a 'Silent' toggle switch which is currently turned off.

WAN connection Type use Static IP on Wi-Fi router

- “Account” => Enter account is inputted in e-gateway.
- “Password” => Enter password is inputted in e-gateway.
- “Intranet Server IP” => Enter the e-GW WAN IP assigned by Wi-Fi Router.
- “Internet Server IP” => Enter the Wi-Fi Router WAN IP

The screenshot shows a mobile application interface for configuring a Wi-Fi router. At the top, there is a navigation bar with a back arrow and the text 'Settings Mobile2door'. Below this is a section titled 'CONNECTION INFO'. A red rectangular box highlights the following configuration fields:

Account	102
Password	●●●
Intranet Server IP	192.168.1.100
Internet Server IP	xxx.xxx.xxx.xxx

Below the highlighted fields, there are two more settings: 'Monitor View Mode 1' and a 'Silent' toggle switch which is currently turned off.

WAN connection Type use DHCP on Wi-Fi router

- “Account” => Enter account is inputted in e-gateway.
- “Password” => Enter password is inputted in e-gateway.
- “Intranet Server IP” => Enter the e-GW WAN IP assigned by Wi-Fi Router.
- “Internet Server IP” => Enter the Host Name that you registered with your DDNS service provider.

DDNS Settings

Dynamic DNS Provider	www.no-ip.com
Account	tomddns002
Password
DDNS	intercomtest0407.no-ip.org

(DDNS Settings screen on Wi-Fi Router)

WAN connection type set as DHCP on Wi-Fi router, the IP address will be acquired a dynamic IP address from DDNS.

< Settings Mobile2door

CONNECTION INFO

Account	102
Password	...
Intranet Server IP	192.168.1.100
Internet Server IP	intercomtest0407.n...

Monitor View Mode 1

Silent

WAN connection Type use PPPoE on Wi-Fi router

- “Account” => Enter account is inputted in e-gateway.
- “Password” => Enter password is inputted in e-gateway.
- “Intranet Server IP” => Enter the e-GW WAN IP assigned by Wi-Fi Router.
- “Internet Server IP” => Enter the Host Name that you registered with your DDNS service provider.

WAN connection type set as PPPoE on Wi-Fi Router, the IP address will be acquired a dynamic IP address from DDNS

DDNS Settings

Dynamic DNS Provider	www.no-ip.com
Account	tomddns002
Password	*****
DDNS	intercomtest0407.no-ip.org

(DDNS Settings screen of Wi-Fi Router)

< Settings Mobile2door

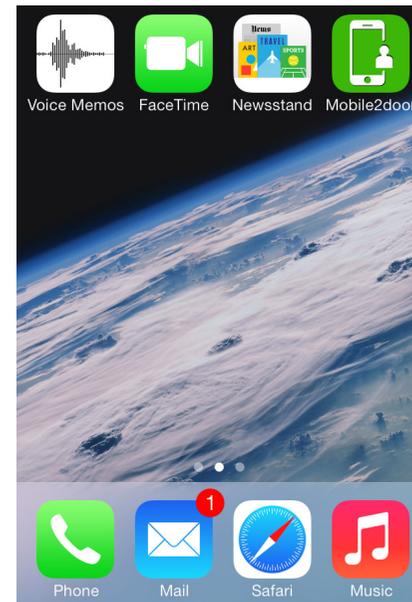
CONNECTION INFO

Account	102
Password	●●●
Intranet Server IP	192.168.1.100
Internet Server IP	intercomtest0407.n...

Monitor View Mode 1

Silent

- After confirming that the iPhone is connected to WiFi router,
- Tap on the desktop Mobile2door, enter the main screen of Mobile2door,



- iPhone register successfully.



Note

- Index 1: Smart Bell user software application

Main Page of Smart Bell App



- **Call Extension**

Talk to other Smart phone/Indoor phone without video

- **Monitor**

Audio and video monitoring for door phone

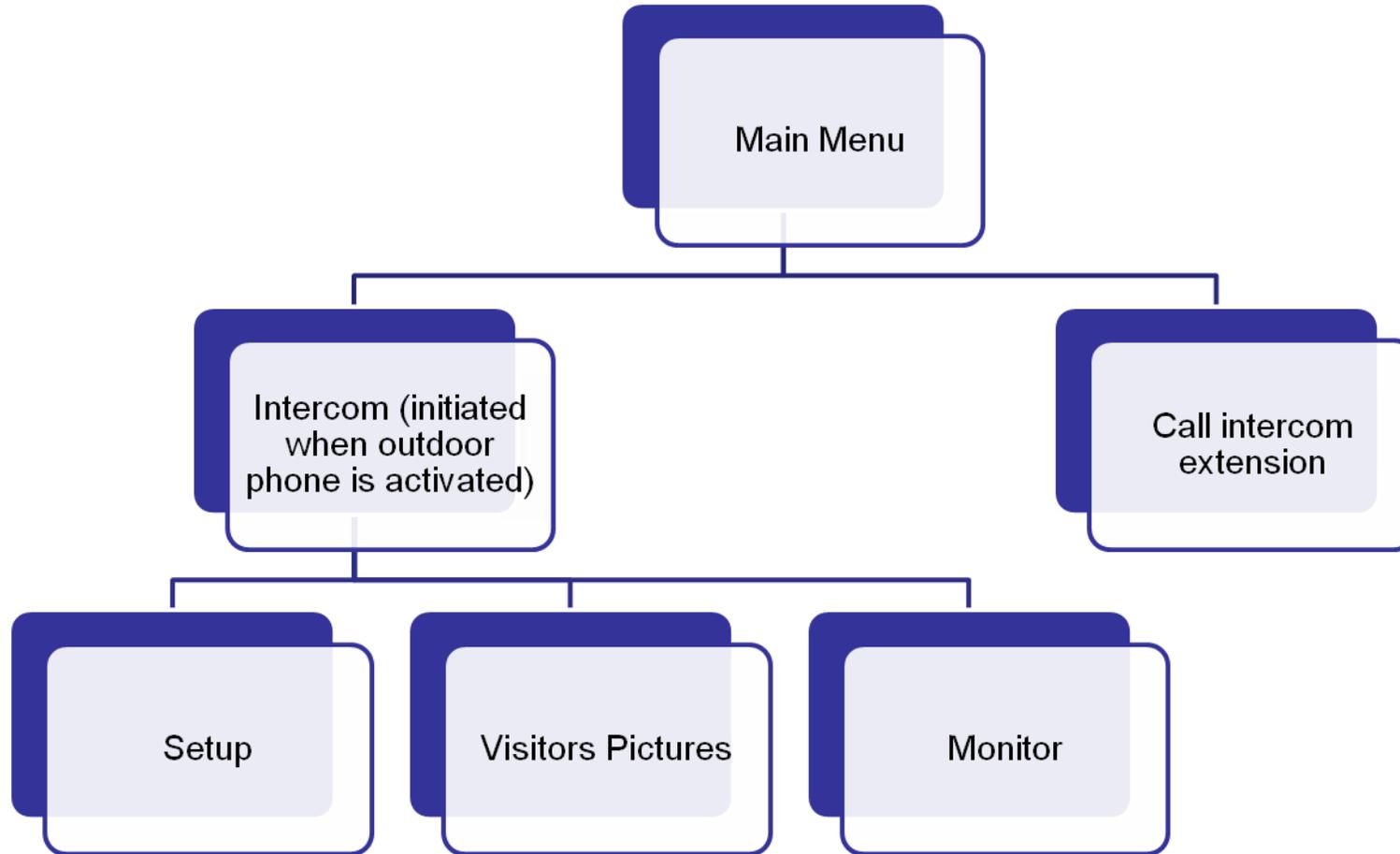
- **Visitors Pictures**

Visitor pictures tracking

- **SETUP**

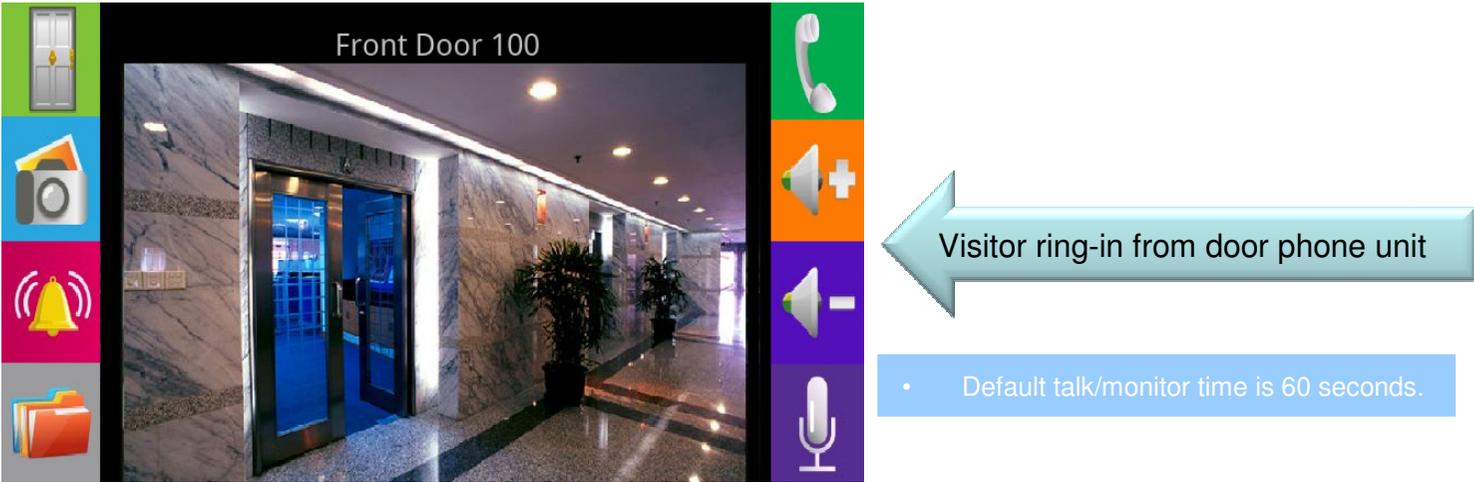
System settings

Function chart



- Default talk/monitor time is 60 seconds.

Intercom for Master station 10" tablet IP-5800



- | | | | |
|---|--|---|----------------------------|
|  | •DOOR OPEN |  | •Pickup Call |
|  | •Image Capturing |  | •End the Call |
|  | •DOOR CHIME ON |  | •VOL.+ |
|  | •DOOR CHIME OFF
=>The functions VOL.+ , VOL.- and MUTE will be disabled while ring-in. |  | •VOL.- |
|  | •Back to MAIN MENU |  | •Mute OFF |
| | |  | •Mute ON (No voice) |

Intercom for Smart phone & tablet

Front Door 100

- Image Capturing
- DOOR OPEN
- Pick up Call

Visitor ring-in from door phone unit

• The Speaker/Handset switch function only is for smart phone/iPhone. On Android tablet or iPad, it will always work on "Speaker" mode.

Switched to talk mode.

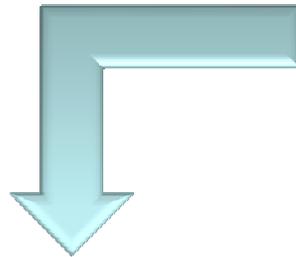
Front Door 100

- Handset mode.
- Speaker mode.
- DOOR OPEN
- End the Call
- Mute OFF
- Mute ON (No voice)

• Default talk/monitor time is 60 seconds.

Call Intercom extension

• Tap “ call extension ” button.



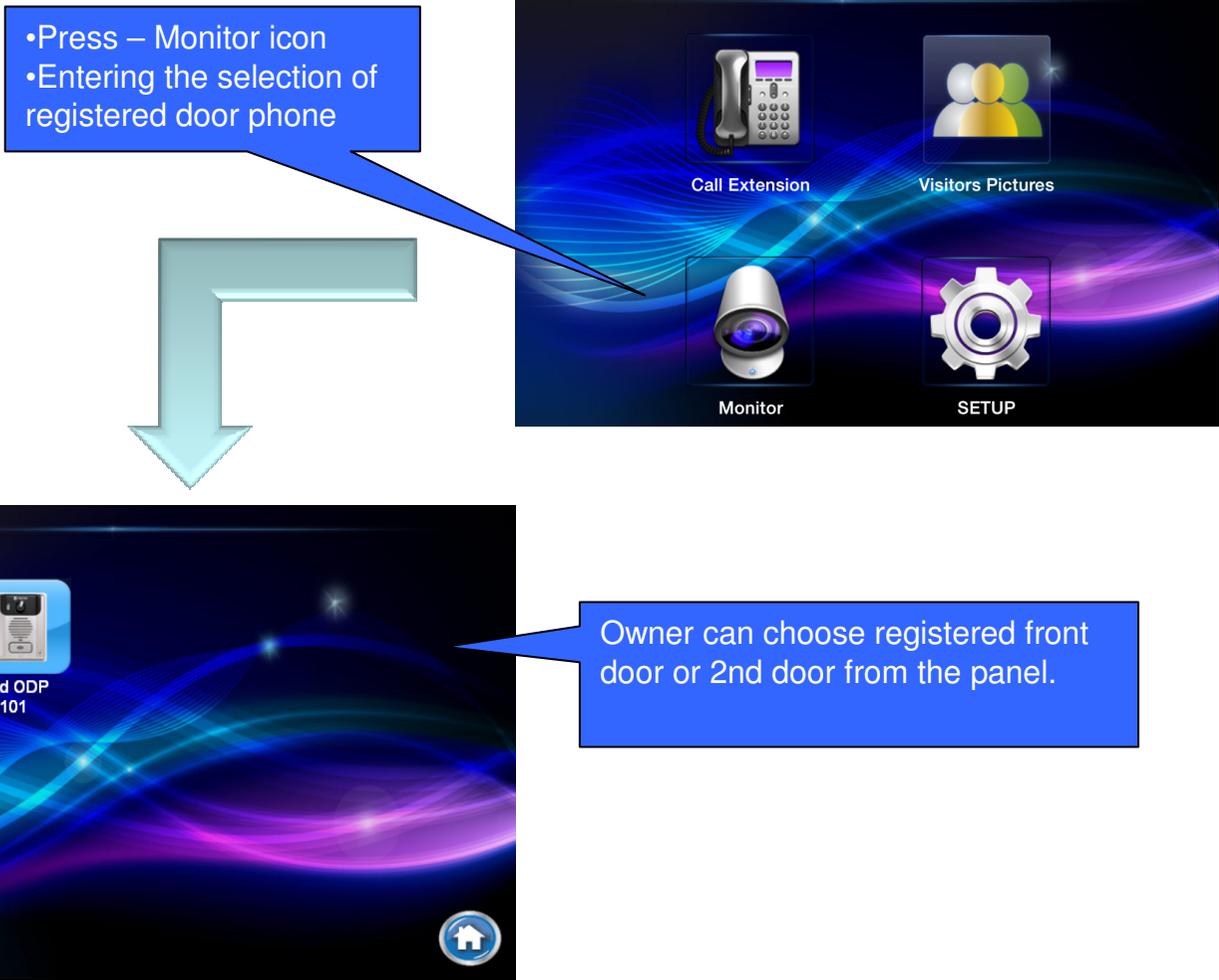
• The registered phones are listed on screen, click on the icon for n the icon for audio intercom.
• Only eight phones can be listed on screen, If more than eight phones registered, please slide up for remain phones appear.

• Back to main page.

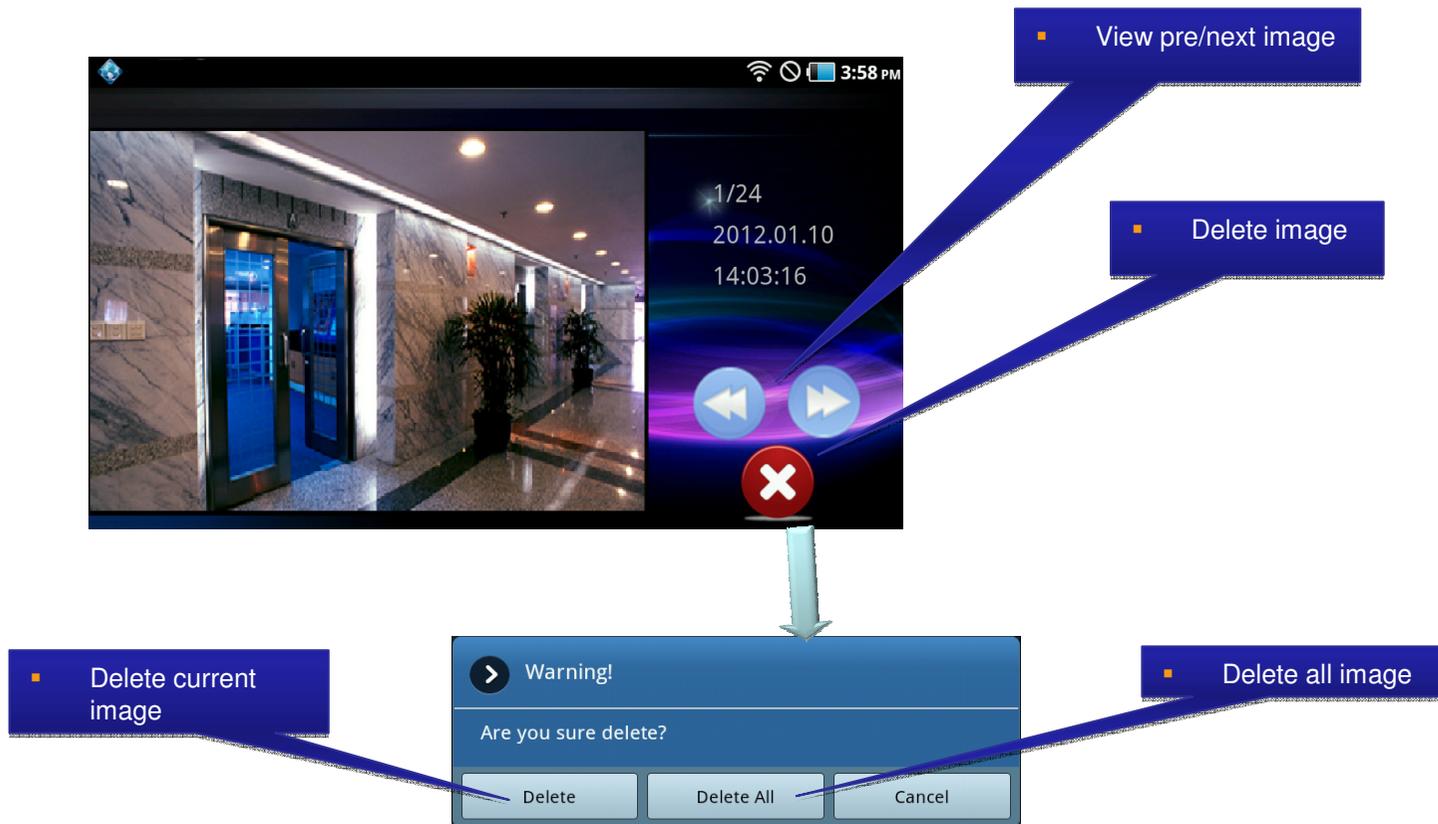
- Call intercom extension – is an audio only intercom.
- Video is not applicable in this version.

MONITOR

- Through the monitor function to monitor the image of the front door or 2nd door



VISITOR LOG(photo snap shot)



Visitor Picture Storage:

- Android: The pictures are stored in SD-Card. When the free memory size is less than 5%, it will show a warning message.
- IOS: The visitor pictures can be stored up to 400 pcs. If memory size is full or up to 400 pcs, we will delete old pictures and save new image automatically.

SETUP

- SETUP page for Smart phone
 - Ringtone Settings, Background Settings, Modify Registration Message, Card Settings, Volume, Version and Terminal Equipment. Total in 7 features.
- SETUP page for Indoor phone/Master station (10" tablet IP-5800)
 - Ringtone Settings, Background Settings, Modify Registration Message, Card Settings, Volume, Version and Terminal Equipment, slide show. Total in 8 features.



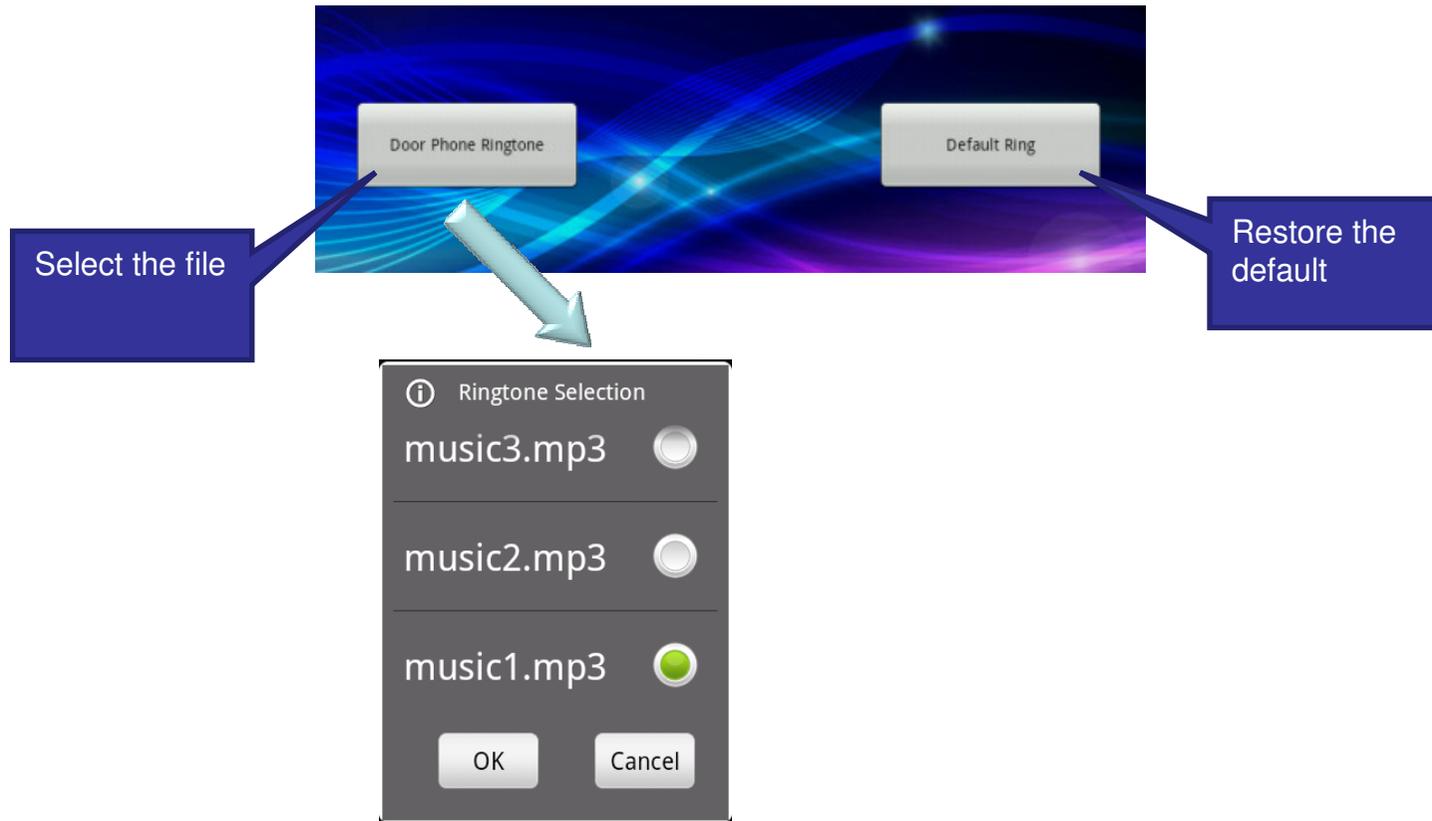
SETUP Page for Mobile Device



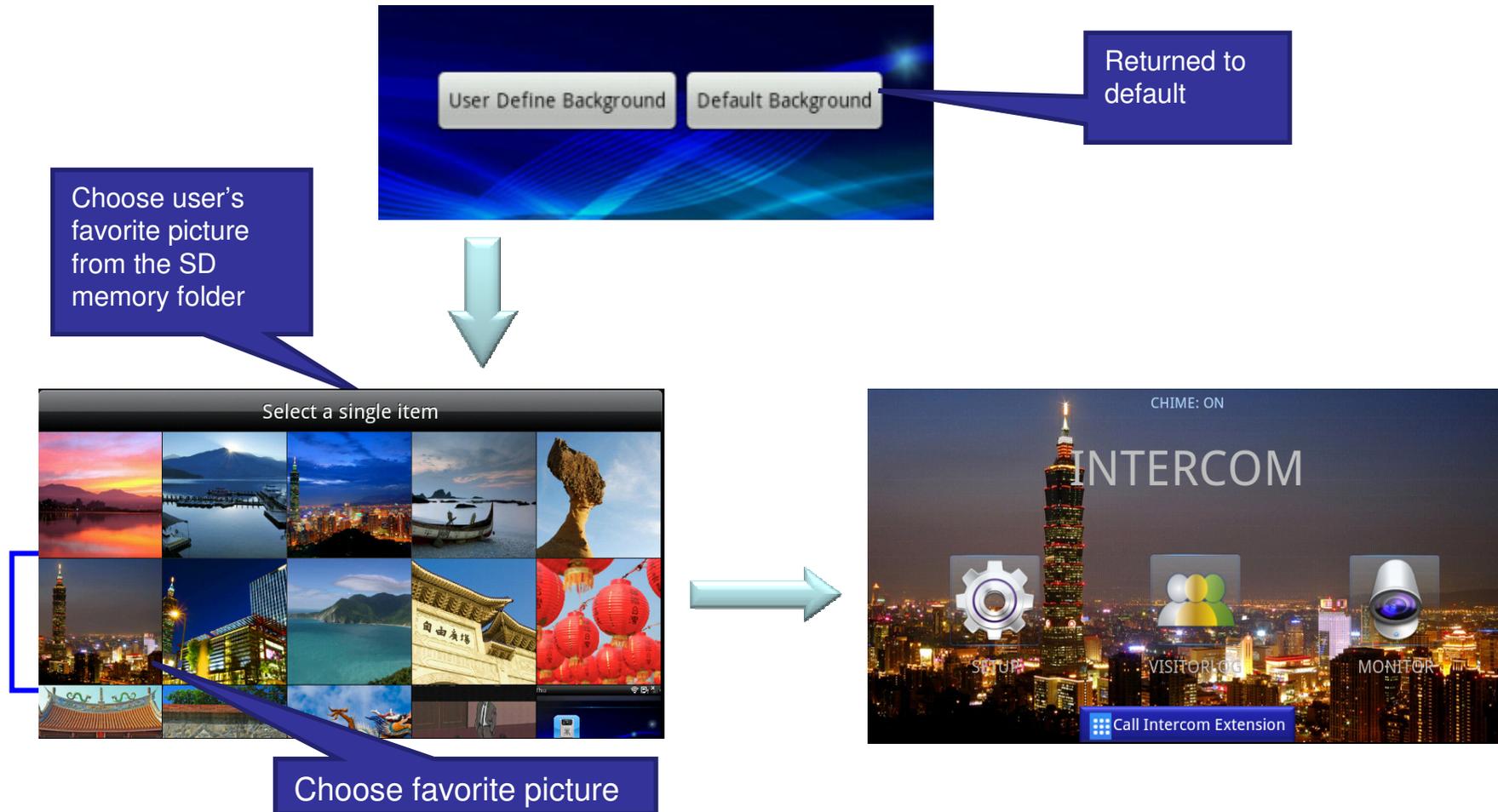
SETUP Page for 10" tablet IP5800

Ringtone settings

- Users can store ringtone files in the "ring" folder of sd card, select the ringtones.



Background Settings



Modify Registration Message

- Warning: to modify the registration information (Account, password and the server address) must be the same as the registration information recorded on the e-GW, otherwise it will result in registration failure.

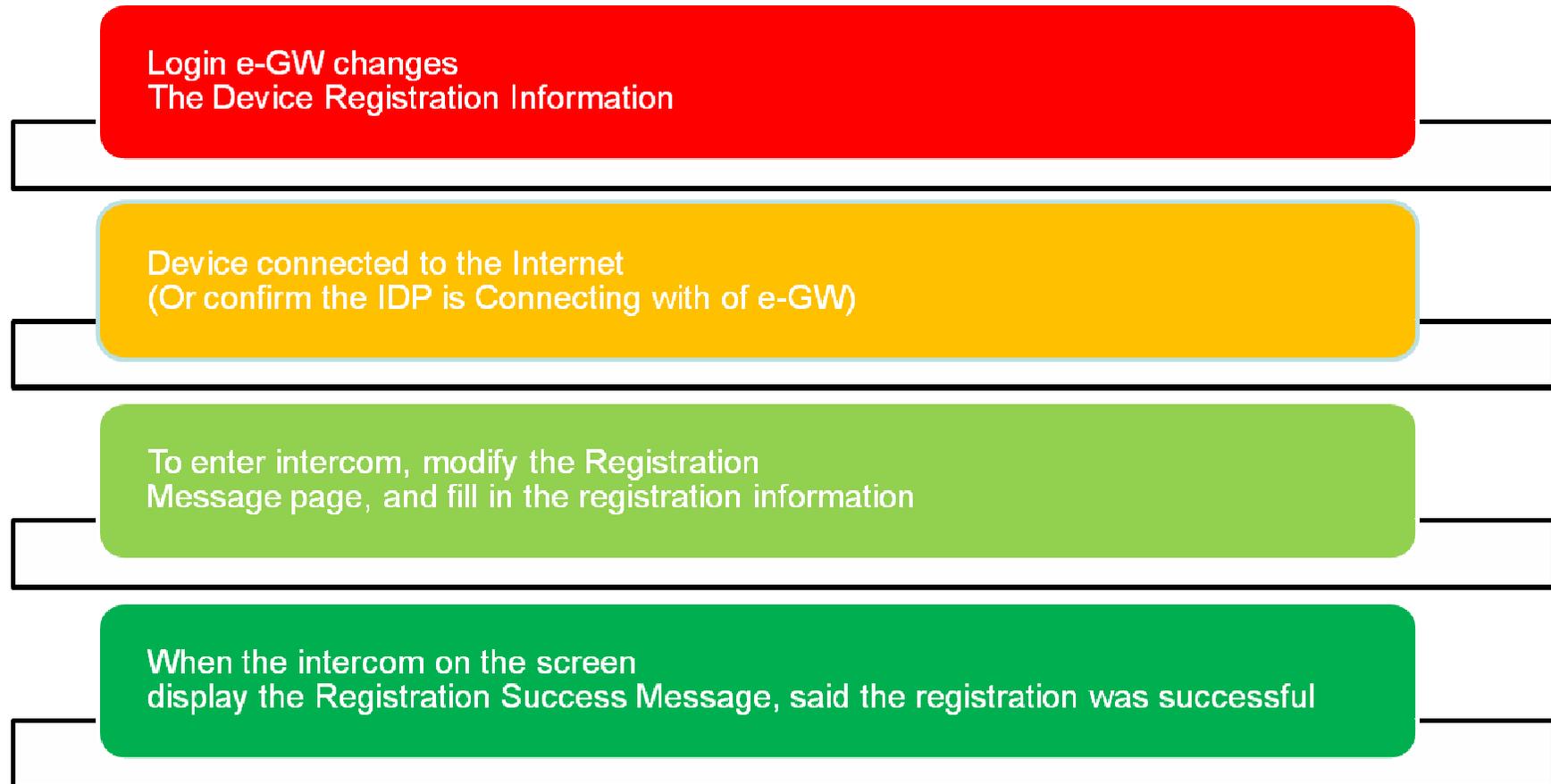
The screenshot shows a registration form with the following fields and callouts:

- Please Enter Extension No.:** 101 (Callout: Existed registration information: Account/password)
- Please Enter Password:** 101 (Callout: WAN IP address of eGW)
- Default Server Address:** 192.168.1.100 (Callout: Wi-Fi WAN IP address or registered DDNS Host name)
- Server Address:** xxx.xxx.xxx.xxx (Callout: Wi-Fi WAN IP address or registered DDNS Host name)
- MAC Address:** 7C:61:93:A0:73:93
- Version:** SMP_V0.3.21I_Intercom_r2315
- Registration** button (Callout: Press this button to access registration procedure)

At the bottom of the form, there are buttons for "Back" and "Homepage".

- Press this button to access registration procedure.
- To create or modify a new registration information(Account, password and the server address), user will be required to (1) first registration to e-GW ; (2) registration to device, otherwise it will result in registration failure;

Modify Registration Message flow chart



Card Settings

- Users can add or set the access card
 1. New access card: Click the "Detect Cards" button.
 2. Edit the access control card: the "long press" card number to edit card information.
 3. System can support up to 32 access cards.

- Add the access card:
 1. Press the "Detect Cards, RF ID card button to begin assay.
 2. RF ID card to brush off the lens of the ODP.
 3. When displayed to the right card number detection success.
 4. Press the "Cancel Detecting" the end of the RF ID card detection.

Edit name of card

Set the card status is set to "Lost," this card is invalid.

Modify
ID: 04e8b63a06248000000
Name: Tom
Card Type:
 General Card
Status:
 Available
 Lost
OK Cancel

04e8b63a06248000000
General Card Available

"Long press" card number to enter the edit card information screen.

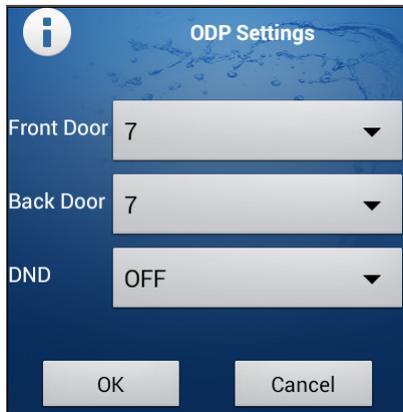
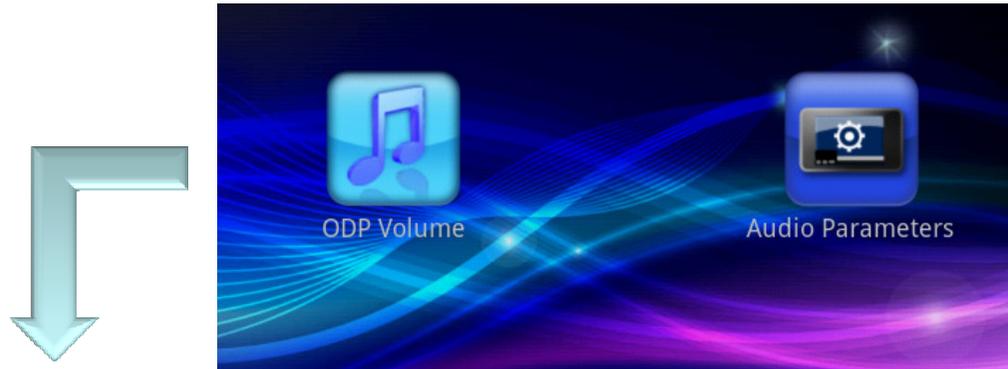
Detect Cards

Cancel Detecting

Back Homepage

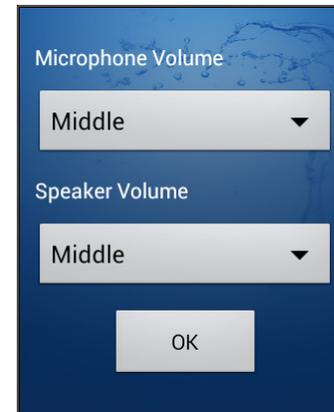
Volume Settings

- ODP volume and device volume can be adjusted



Adjustable front door and back door Speaker volume

DND (Do Not Disturb):
When DND is "ON", it will silence incoming calls.
(The DND setting is for Android only.)



Adjustable Device Microphone and Speaker Volume.

Volume Settings (DND)

- Android platform



The  icon appears on top-right at corner of main screen to remind user the DND status is "ON".

- IOS platform

User can turn off the "APNS" Notification sound alert by IOS settings.



Version & Terminal equipment

- View version information



- List of all terminal equipment on the currently registered.



Slideshow settings (only for IP5800 10" tablet)

- User photos can be stored in the SD-Card album folder after the start of this function.
- When the screen into sleep mode, the system will automatically perform a digital photo frame function.



Exit Mobile2Door App

- **Android smartphone:**

- 1) **Exit Mobile2Door App**

- Exit Mobile2Door App, the Smartphone will not receive any incoming call notification.



- 2) **Leave Mobile2Door UI, and App running in the background**

- Keep App running in the background and 3G/Wifi connection, the Smartphone can receive the incoming call notification.



3) Visitor ring-in from door phone unit, when Mobile2Door App is running in the background

- When visitor ring-in from door phone unit, the Mobile2Door App will pop-out automatically.

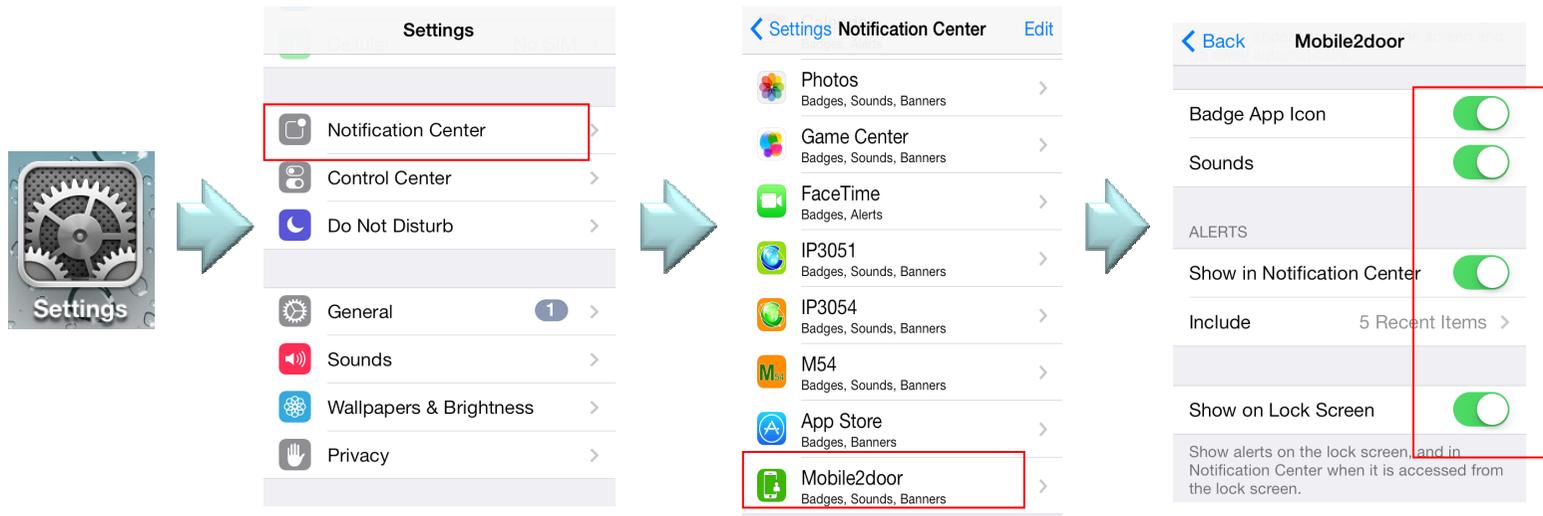


The Mobile2Door App pop-out and ring.

- **iPhone:**

- When user exits the Mobile2Door App, please make sure the Notification is enable and 3G or Wifi network is connected for incoming call notification received.

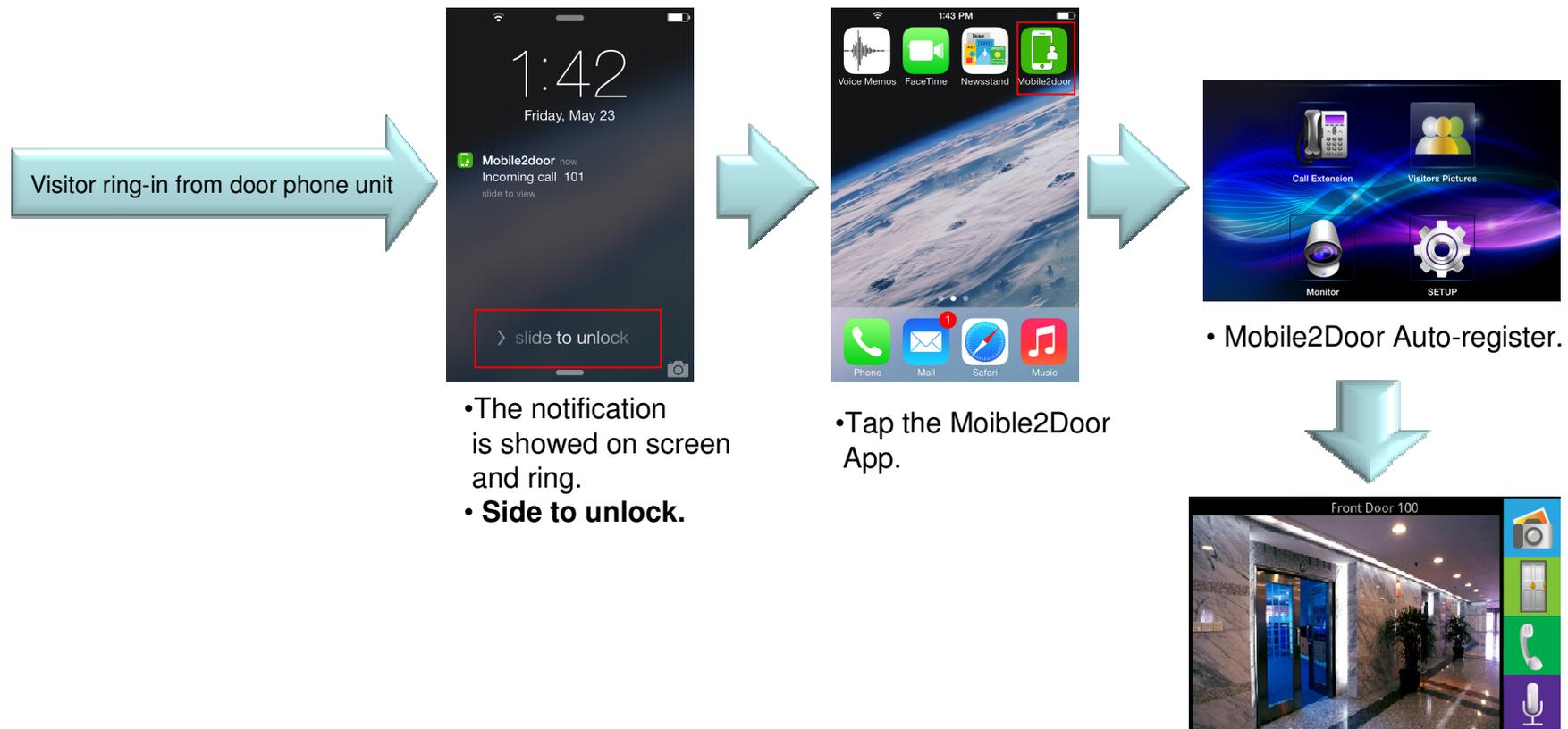
1) Notification Setting



•Enable these items.

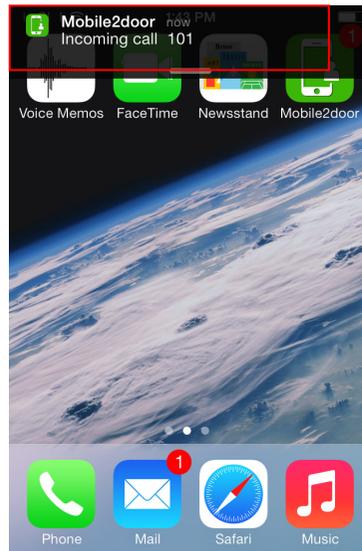
2) Visitor ring-in from door phone unit, when Mobile2Door App is not running

a) iPhone screen is locked, receive the incoming call notification.



b) When iPhone is using, receive the incoming call notification.

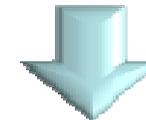
Visitor ring-in from door phone unit



- The notification is showed on the top of screen.
- **Tap the notification.**



- Mobile2Door Auto-register.



Note

- Index 2: DDNS IP configurations and connections

Static / Dynamic IP configurations and connections



- IP address
 - An Internet Protocol address (IP address) is a numerical label assigned to each device (e.g., IP devices – outdoor phone, indoor phone) participating in an intercom network that uses the Internet Protocol for communication.
 - An IP address serves two principal functions: host or network interface identification and location addressing. Its role has been characterized as follows: *"A name indicates what we seek. An address indicates where it is. A route indicates how to get there."*
- IP address assignment
 - Uses of dynamic addressing
 - A device may be assigned a different IP address each time internet connection. It is assigned by a ISP's server used DHCP or PPPoE connection.
 - Uses of static addressing
 - A device is assigned to a permanent IP address. The IP address is always same every time Internet connection.

DDNS account application and setting

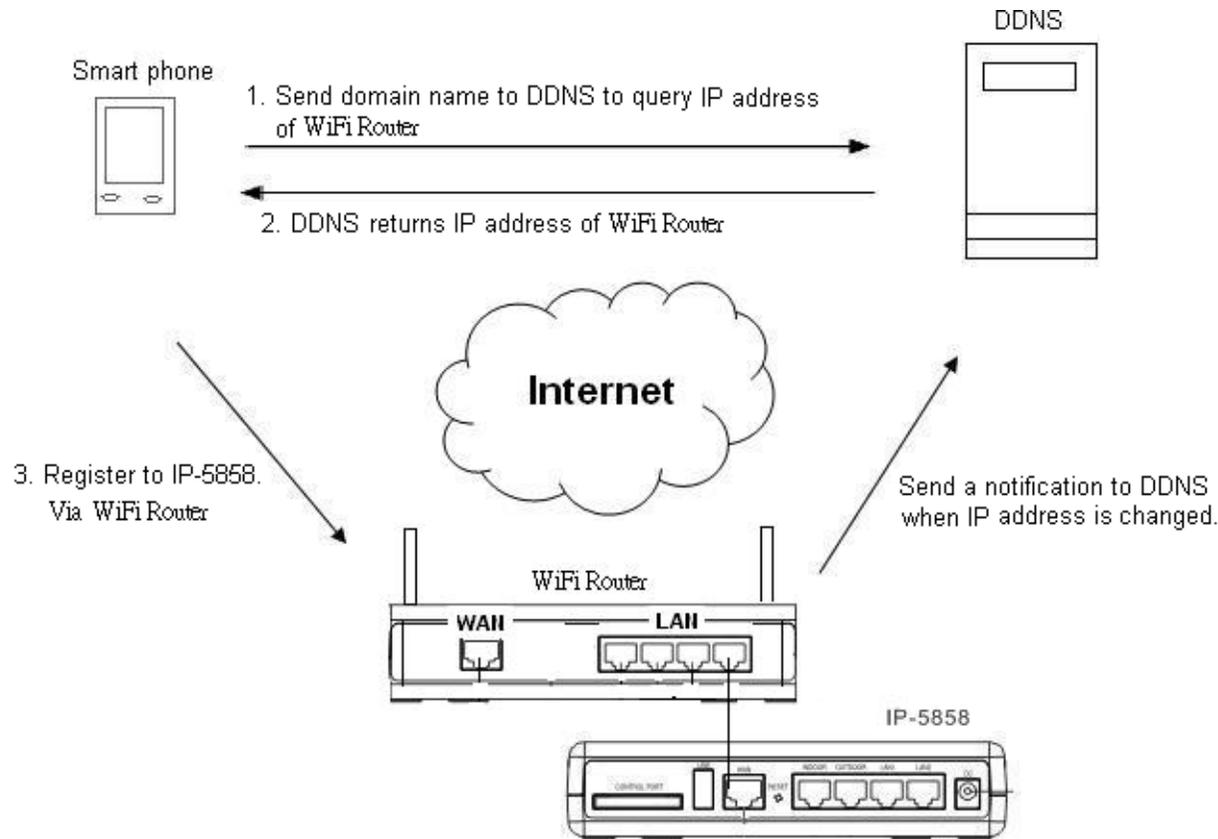
1. Introduction on DDNS.
2. To apply for an account and personal domain in the DDNS website.

Introduction on DDNS

- Dynamic DNS or DDNS is a term used for the updating in real time of Internet Domain Name System (DNS) name servers to keep the active DNS configuration of their hostnames, addresses and other information up to date.
- DNS (Domain Name Server) is a network device IP address feature of the server through the URL query example, when the user through a browser to connect to “[www.xxx.com](#)” the DNS on the network will convert this URL to the corresponding IP address, the browser will be able to connect to this IP address where the WWW server is.
- Normally, the DNS can only provide a static IP address query the DDNS (Dynamic Domain Name Server) function is to solve the DNS can not query the problem of dynamic IP, it can be automatically updated each time a user changes the floating IP, and then with URL that corresponds to, so that other Internet users through the web site to check the correct IP and then to communicate.

IP-5858 to use the DDNS function

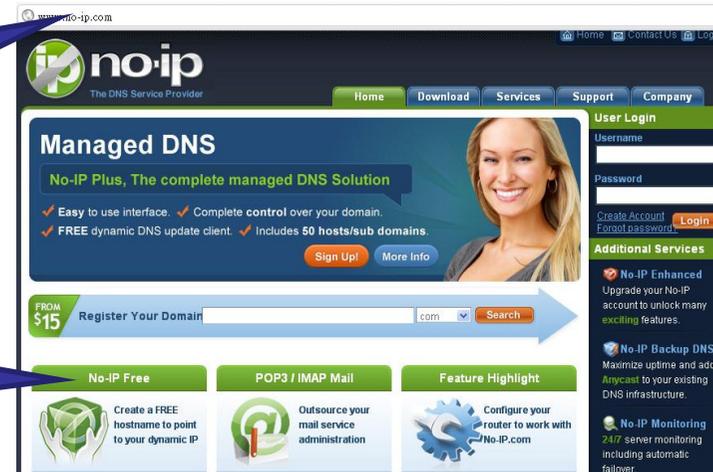
- When the WiFi router WAN Connection Type is set to DHCP or PPPoE (Dynamic IP address), WiFi router registered to the DDNS, each time WiFi router obtain a new IP address from ISP server. the DDNS of WiFi router will automatically updates the IP address.
- Mobile device to be registered, first DDNS ask the IP address of WiFi router, and then to be registered back to the IP-5858 via WiFi router.



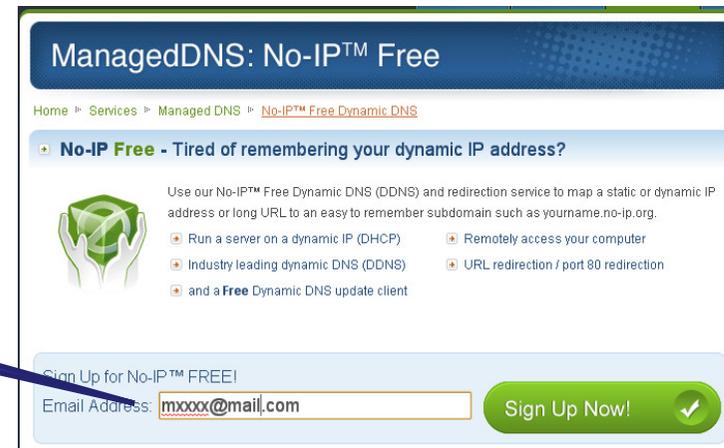
- To apply for an account and personal domain in the DDNS website.

1. Open browser and input www.no-ip.com.

2. Click "No-IP Free".



3. Input your email address and then click "Sign Up Now!" button.



4. Fill out relevant information.

About You:

First Name: Tom

Last Name: Wu

Email: mxxxx@mail.com

Account Information:

Username: tomddns002

Password: *****

Confirm Password: *****

Account Access:

Security Question: What is your pets name?

Your Answer: kitty

Birthday: February 20 200*

5. Check "I agree that..."

Terms of Service:

Please review our Terms of Service (TOS) below. By creating an account you are agreeing to our TOS and Privacy Policy. The TOS states you may only have one (1) free account, and that creation of multiple free accounts will result in the termination of all of your accounts.

I agree that I will only create one free No-IP account.

Terms of Service

1. ACCEPTANCE OF TERMS

No-IP.com is an Internet-based Web site that offers DNS Hosting, dynamic DNS, URL Redirect hosting, domain name registration, server monitoring, and software utilities (each a "Service" a

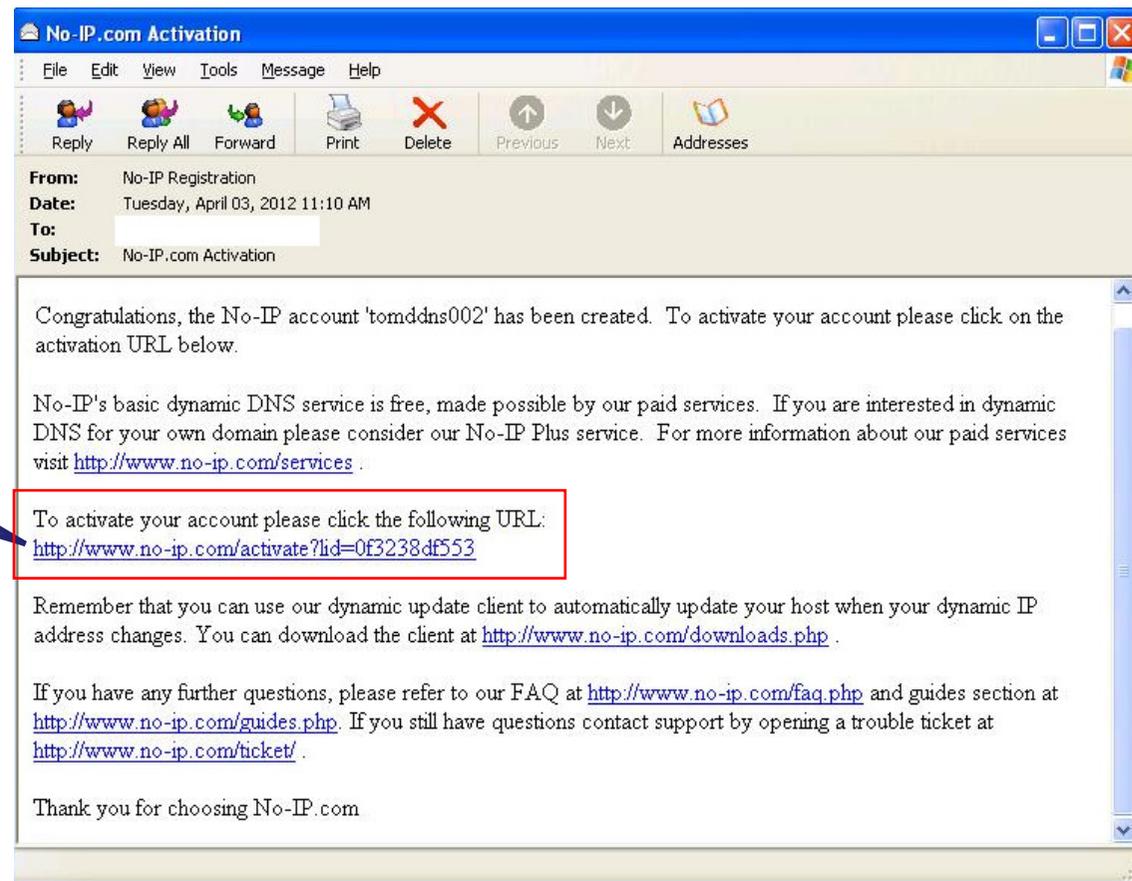
By clicking on 'I Accept' below you are agreeing to the [Terms of Service](#) above and the [Privacy Policy](#).

6. no-ip.com will send a account activation mail to you after the button clicked

I Accept, Create my Account

- Check your mail box and open “Subject : No-IP.com Activation” mail.

7. Click the URL link to activate your account.



- Back to no-ip.com homepage (www.no-ip.com), and then login member section.

The screenshot shows the no-ip.com homepage. The main navigation bar includes links for Home, Download, Services, Support, and Company. A prominent 'Managed DNS' banner features a woman's face and lists benefits like 'Easy to use interface', 'Complete control over your domain', and 'FREE dynamic DNS update client'. Below this is a domain registration search bar with a 'FROM \$15' offer. The footer area contains three service highlights: 'No-IP Free' (free hostname), 'POP3 / IMAP Mail' (outsourced mail administration), and 'Feature Highlight' (router configuration). On the right side, the 'User Login' section is visible, with a callout box pointing to the login fields.

7. Input Username and Password to login member section.

8. Select "Hosts/Redirects" -> "Add Host".

9. Fill in a name of your choosing.

10. Select a domain.

11. Select "DNS Host (A)".

12. Click "Create Host".

Hosts/Redirects | DNS Hosting | Domain Registration | Mail | SSL Certificates | Monitoring | Backup DNS | Renew/Activate

Add a host

Fill out the following fields to configure your host. After you are done click 'Create Host' to add your host.

Own a domain name?
Use your own domain name with our DNS system. [Add](#) or [Register](#) your domain name. View our [pricing and features](#).

Hostname Information

Hostname:

Host Type: DNS Host (A) DNS Host (Round Robin) DNS Alias (CNAME)
 Port 80 Redirect Web Redirect

IP Address:

Assign to Group: [Configure Groups](#)

Enable Wildcard: Wildcards are a Plus / Enhanced feature. [Upgrade Now!](#)

[Revert](#) [Create Host](#)

Finish domain creation.

Manage Hosts

Host	IP/URL	Action
Hosts By Domain		
no-ip.org		
intercomtest0407.no-ip.org	59.111.111.234	Modify Remove

[Add a Host](#)

Note

- Index 3: Third party Security System Integration

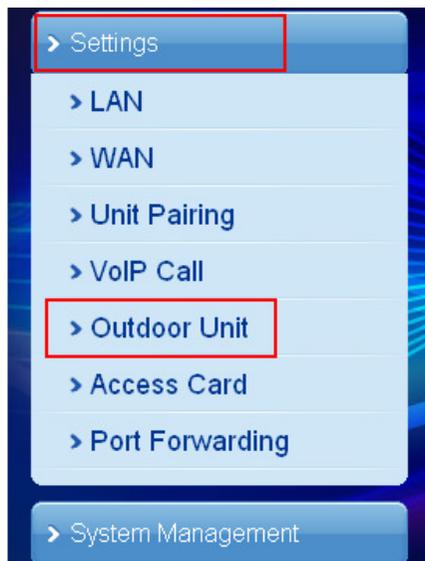
Index

- Third Party Security System Integration Setting
- Door Phone event Trigger

Third Party Security System Integration Setting

Third Party Integration Setting

1. Login to web page of eGW.
(For eGW's Lan port, the default IP address: 192.168.0.10
Account/password: admin/admin)
2. Enter "Settings" -> "Outdoor Unit" page. And you will find the "Third Party Integration" setting in the right window.



Apply

Third Party Integration

Event	IP Address	Port	Command
Front Door Opening	<input type="text"/>	<input type="text"/>	<input type="text"/>
Back Door Opening	<input type="text"/>	<input type="text"/>	<input type="text"/>
Front Door Visitor Calling	<input type="text"/>	<input type="text"/>	<input type="text"/>
Back Door Visitor Calling	<input type="text"/>	<input type="text"/>	<input type="text"/>

Apply

Third Party Integration Setting

3. User can base on their request to send command to third party security system when door phone operation's event triggered. We support four types of event:

- (1) Front Door Opening => Front door is opened.
- (2) Back Door Opening => Back door is opened.
- (3) Front Door Visitor Calling => Visitor presses front door bell button.
- (4) Back Door Visitor Calling => Visitor presses back door bell button.

Event	IP Address	Port	Command
Front Door Opening	<input type="text"/>	<input type="text"/>	<input type="text"/>
Back Door Opening	<input type="text"/>	<input type="text"/>	<input type="text"/>
Front Door Visitor Calling	<input type="text"/>	<input type="text"/>	<input type="text"/>
Back Door Visitor Calling	<input type="text"/>	<input type="text"/>	<input type="text"/>

Third Party Integration Setting

- Input the IP address, port number and command for third party security system, finally press “Apply” button to save settings.

Third Party Integration

Event	IP Address	Port	Command
Front Door Opening	<input type="text"/>	<input type="text"/>	<input type="text"/>
Back Door Opening	<input type="text"/>	<input type="text"/>	<input type="text"/>
Front Door Visitor Calling	<input type="text"/>	<input type="text"/>	<input type="text"/>
Back Door Visitor Calling	<input type="text"/>	<input type="text"/>	<input type="text"/>

Apply

The IP address for third party security system

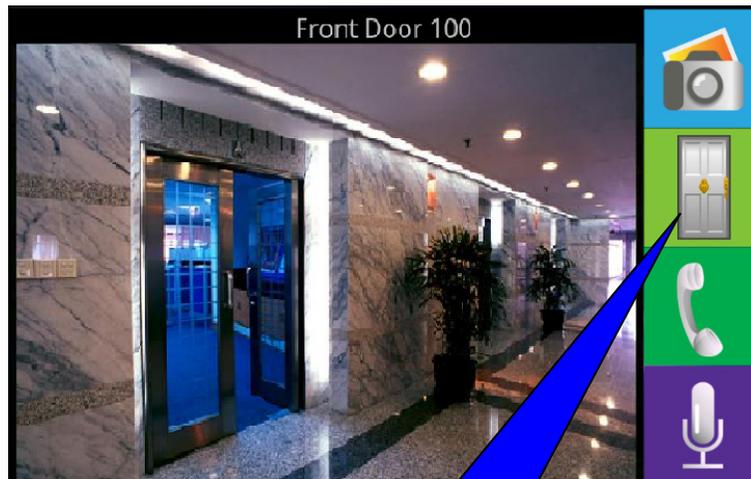
The port for third party security system

The command will be send to third party security system when event is triggered.

Door Phone event Trigger

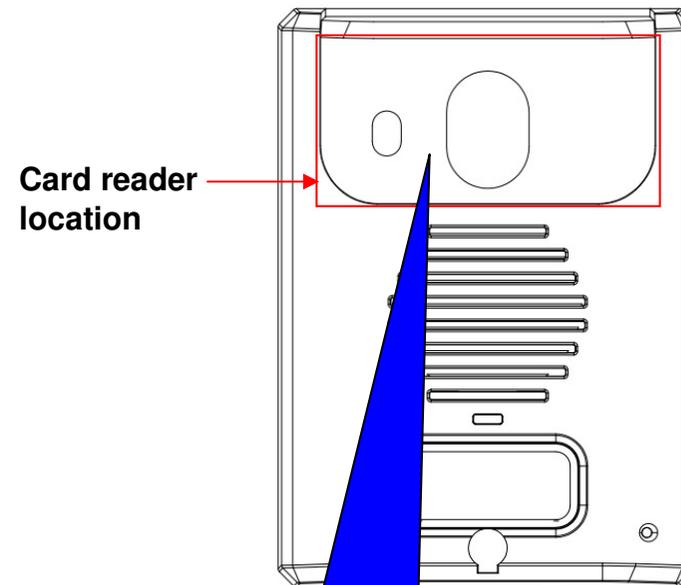
Door Opening Event Trigger

1. Press “DOOR OPEN” button:



Press the “DOOR OPEN” button when talk mode.

2. Use RFID card to open door:

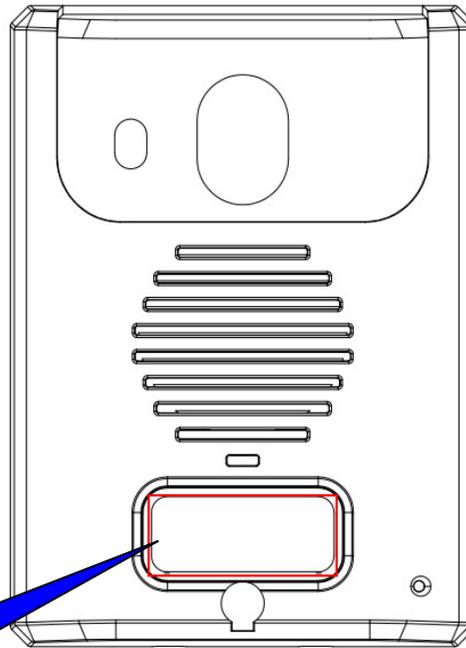


Card reader location

Tap RFID card to this area to open door .

Visitor Calling Event Trigger

- Press door bell button to trigger the visitor calling event.



Press bell button.

Note

-
- Thank you for choosing Smart Bell for your communication and security needs.