



User's Guide

MAIN – SM3

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Specification

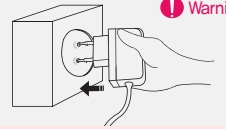
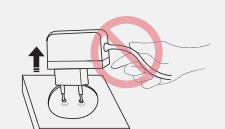
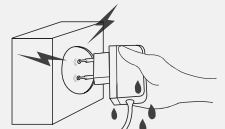
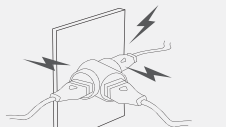


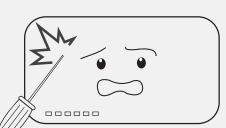
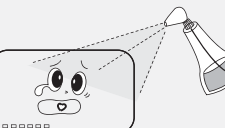
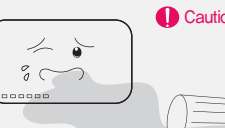
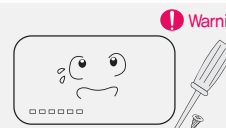


| | |
|--------------------|--|
| Model | SM3-22 / SM3-23 / SM3-32 / SM3-33 / SM3-61 |
| Frequency(MHz) | 433.0500 ~ 434.7900 , 447.8625 ~ 447.9875 |
| Freq Stability | ± 10 ppm |
| Data Rate | 1800 bps |
| Channel space | 12.5 KHz |
| Modulation | FSK (±3KHz) |
| Output Power | 10mW (Max) |
| Sensitivity | -118dBm (at 12dB) |
| Power Supply | DC 12V/1A Adapter |
| Dimension(mm) | 288W × 133L × 40H |
| Battery Life cycle | External Power |
| Antenna | Tilt base snap-in dipole (External) |

Important Safety Instructions

In order to prevent harm or injury to those using the equipment or to any other persons and/or property, please be sure to read the following safety instructions.

! Warning This sign warns of possible death or serious injury to persons and/or property.

! Caution This sign warns of possible damage or injury to persons and/or property.

| | | | |
|---------------|---|--|--|
| Power related |  <p>! Warning</p> <p>Make sure the power plug is correctly inserted in to the wall outlet. [If the plug is inserted improperly, it may cause electric shock or generate heat resulting in fire.]</p> |  <p>! Caution</p> <p>Never do anything that might cause damage to the cord or power plug. [This may generate heat resulting in fire.]</p> |  <p>! Caution</p> <p>Do not connect or disconnect the power plug with wet hands. [This may result in electric shock.]</p> |
| |  <p>! Warning</p> <p>Do not use multiple power plugs on one connector. [This may generate heat resulting in fire.]</p> |  <p>! Caution</p> <p>Unplug the power plug if the main unit is damaged. [It may cause electric shock or generate heat resulting in fire. Please contact service center.]</p> |  <p>! Caution</p> <p>Unplug the power plug, in case of lightning or when unused for long periods of time. [It may cause electric shock or generate heat resulting in fire.]</p> |
| |  <p>! Warning</p> <p>Do not harm or damage the unit with sharp object such as nail, pencil, or pen. [It will damage the surface of the unit and cause malfunction.]</p> |  <p>! Caution</p> <p>Do not clean the unit with water, benzene, or paint thinner. It may damage insulation of electrical parts resulting in electrical shock or fire.</p> |  <p>! Caution</p> <p>If foreign object enters the unit, please contact service center. It may damage internal parts of the unit resulting in fire electrical shock or fire.</p> |
| |  <p>! Warning</p> <p>Do not disassemble or modify the unit. If repair of the unit is required, please contact the service center. It may cause electric shock or generate heat resulting in fire.</p> |  <p>! Caution</p> <p>Use only the batteries specified in this manual. [The batteries could leak corrosive liquids, explode or catch on fire.]</p> |  <p>! Caution</p> <p>Dispose used batteries properly and keep away from reach of children. Contact physician immediately when the battery is swallowed by children.</p> |

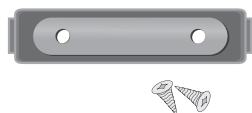
Supplies Per Models

Main



Main

Installation Deck (Screw 2pcs)



Adaptor

Display Type

SM3-22



2 digit of 2 Screen type

SM3-23



2 digit of 3 Screen type

SM3-32



3 digit of 2 Screen type

SM3-33



3 digit of 3 Screen type

SM3-61



6 digit of 1 Screen type

Installation guide

To assure the finest performance, please read this manual carefully.

① Location

Avoid metal plates, electrical wires, and LED lighting that will shorten reception range.



Caution

Do not install near any heat sources such as radiators, stoves, or other appliances that produce heat. There is danger of fire or an electric shock.



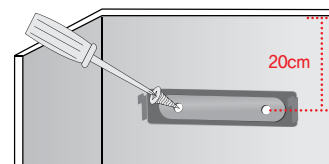
Warning

The location should be safeguarded from excess moisture, dust, and rain. There is danger of fire or an electric shock.



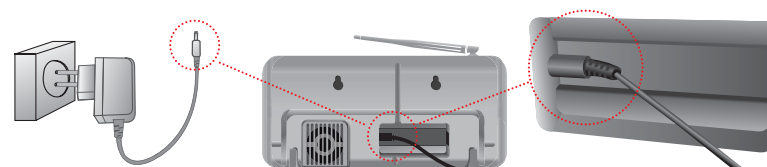
Caution

② Bracket Installation

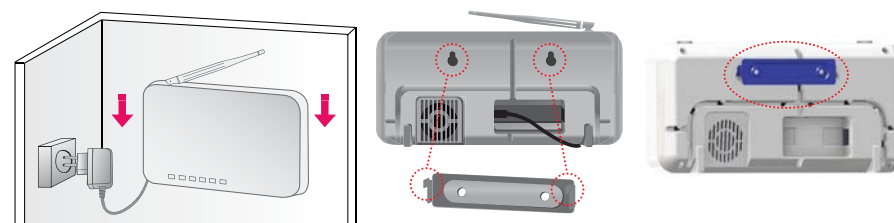


Wall mount bracket should be placed at least 20cm below the ceiling. Reception range can be shorten if placed less than 20cm.

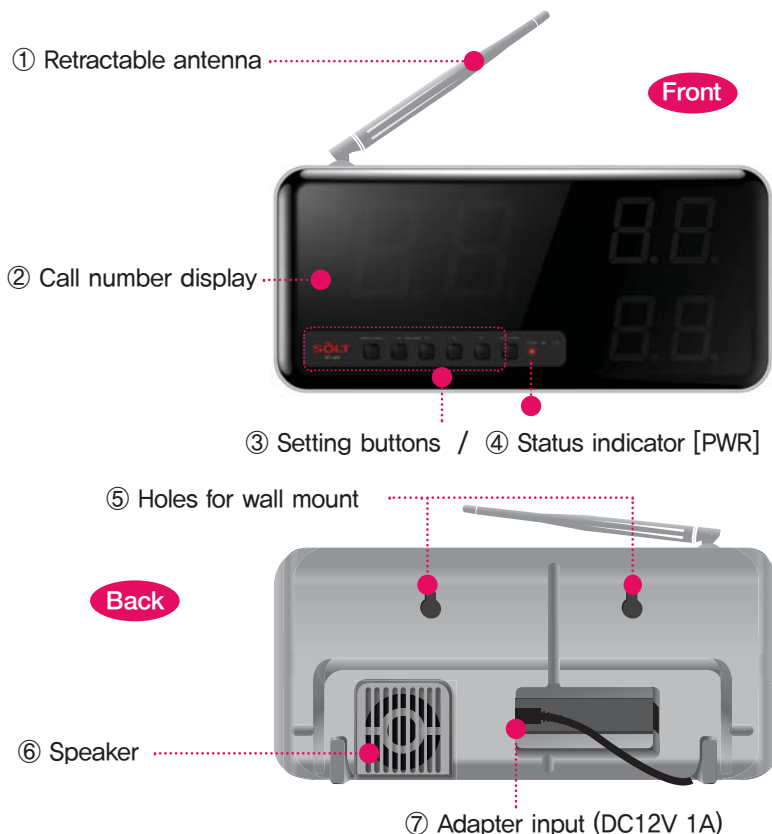
③ Power Cord (Use the adaptor provided in the package.)



④ Wall Mounting (Pull down the unit until clicking sound is heard.)



Name of each section



- ① Retractable antenna : 180 degrees pivot.
 ② Bell number indicator : activated led number varies by different models.
 ③ Setting buttons

| | |
|------------|---|
| MENU / ESC | <ul style="list-style-type: none"> · Menu button in setting mode · Alphabetic and numeric changing button |
| ▲ ▼ | <ul style="list-style-type: none"> · Up/ Down buttons · Changing volume (0-9 levels): default level is 5 <p>※ To change volume, press up/down to desired level and press SET button</p> |
| ◀ ▶ | <ul style="list-style-type: none"> · Left / Right buttons |
| SET / PWR | <ul style="list-style-type: none"> · Storing button for set value · Power button |

- ④ Status indicator : Location of indicator differs by different models.

| | |
|-----|-------------------------------|
| PWR | Red led indicates power is on |
|-----|-------------------------------|

- ⑤ Holes for wall mount : Refer to item 4 of Installation Guide in page 5.

- ⑥ Speaker : 1.5W / 50Φ x 1.25mm

- ⑦ Adapter input: DC12V 1A (Use the supplied adapter)

Limited accessory warranty: malfunctioning of supplied adapter during its use is not covered by manufactures' warranty.

Purchasing an adapter with AC220V input, DC12V 1A output is recommended.



AC220V입력 , DC12V 1A

List of setting modes for Main transceiver

Each setting mode below is activated with using Setting buttons.

| | |
|----|--|
| F0 | New call number registration mode Adds new call number to the list of registered call numbers. |
| F1 | Sound setting mode Sets bell sound for all Bells. (22 bell sounds / default value is 1) |
| F2 | Display time setting mode Sets display duration. (default value is 30 seconds) |
| F3 | Ring repetition setting mode Sets ring repetition number. (default value is 1) |
| F4 | Unique Bell sound setting mode Sets bell sound for individual Bells |
| F5 | Call redundancy interval setting mode Sets interval for redundant calls (default value is 3 seconds) |
| F6 | Call number changing mode Assigns different call number for the Bell. |
| F7 | Call number deleting mode using the Bell Deletes call number from the list using the Bell |
| F8 | All Call number deleting mode Deletes all call number on the registered call number list |
| F9 | Call number deleting mode using the Main unit Deletes call number from the list using the main Unit. |
| E1 | New call number sequence registration mode Sequential registration call number. |

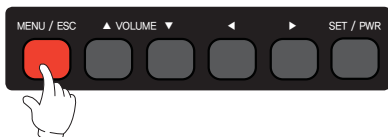


New call number registration mode

· Adds new call number to the list of registered call numbers.

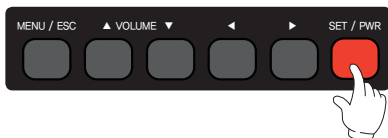
(1) Press and hold (MENU/ESC) button for 3 seconds.

This is call number registration mode.



· Entering setting mode as **[F0]** is displayed.

(2) Press (SET) button.



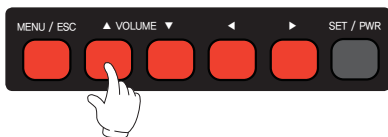
· blinking **[0]** is displayed.

(3) Press (▲▼◀▶) buttons. Sets a new number.

- Press (◀▶) buttons to move to different digits.
- Press (MENU) button to toggle form Number mode to English mode.

The cipher is changing.

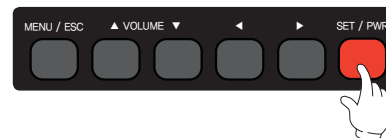
This is english mode.
This is number setting mode.



| | |
|--------------|---|
| Number mode | 0123456789 (Blank) |
| English mode | AbCdEfGh IjKlMnopQr StUvWxYz - _ (Blank) |

(4) Press (SET) button.

Press the call number.



· Selected number is blinking.

(5) Press the bell button to register.

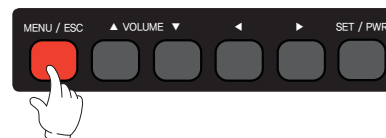
The number has been registered.



· Registration for selected call number is completed.
To register another Bell, repeat the processes from (3) to (5).

※ " The number already has been registered. " is announced in the case of pressing currently registered Bell button.

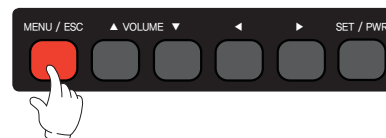
(6) Press and hold (MENU/ESC) button for 3 seconds when registration is finished.



· **[F0]** is displayed and return to previous step.

※ Press (▲▼) buttons to select different setting mode.

(7) Press (MENU/ESC) button.



· **[--]** is displayed and ready for reception.

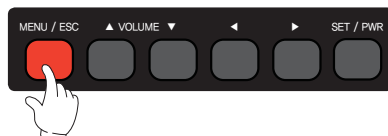


Sound setting mode

· Sets bell sound for all Bells.

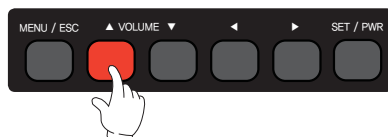
(1) Press and hold (MENU/ESC) button for 3 seconds.

This is call number registration mode.



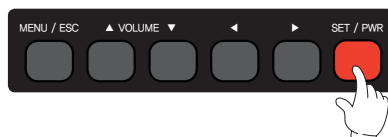
· Entering setting mode as [F0] is displayed.

(2) Press (▲) button once. This is sound setting mode.



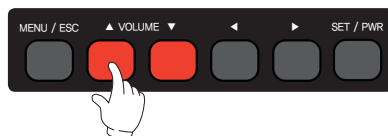
· [F1] is displayed

(3) Press (SET) button.



· selected sound is played as [1] is displayed.

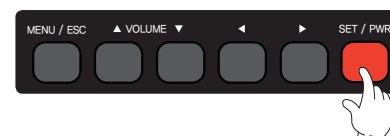
(4) Press (▲▼) buttons. Select the desired bell sound.



· Selected sound number is displayed.

※ Selected bell sound is played as navigating by pressing (▲▼) buttons.

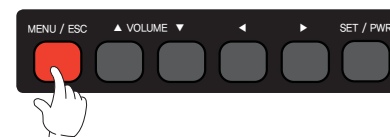
(5) Press (SET) button. The setting has been completed.



· [F1] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(6) Press (MENU/ESC) button.



· [---] is displayed and ready for reception.

BELL (Preset mode : ding-dong 1)

| | | | |
|----|---------------------------|----|--------------|
| 1 | ding-dong 1 (Preset mode) | 12 | ding-dong 8 |
| 2 | ding-dong 2 | 13 | ding-dong 9 |
| 3 | ding-dong-dang 1 | 14 | ding-dong 10 |
| 4 | ding-dong-dang 2 | 15 | chime bell 1 |
| 5 | ding-dong 3 | 16 | chime bell 2 |
| 6 | ding-dong 4 | 17 | cow |
| 7 | ding-dong 5 | 18 | pig |
| 8 | water drop | 19 | rooster |
| 9 | ding-dong-dang 3 | 20 | siren |
| 10 | ding-dong 6 | 21 | birdcall 1 |
| 11 | ding-dong7 | 22 | birdcall 2 |

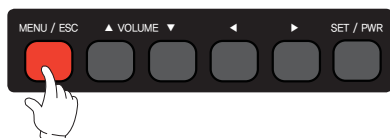


Time display setting mode

· Sets display duration.

(1) Press and hold (MENU/ESC) button for 3 seconds.

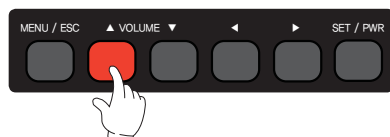
This is call number registration mode.



· Entering setting mode as **[F0]** is displayed.

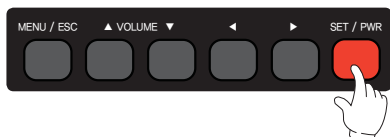
(2) Press (▲) button twice.

This is time display setting mode.



· **[F2]** is displayed.

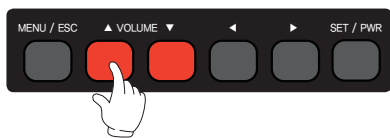
(3) Press (SET) button.



· Blinking **[30]** is displayed.

※ 30 is set for default. (Unit : second)

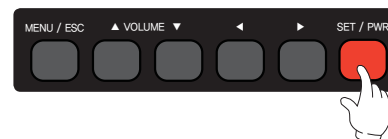
(4) Press (▲▼) buttons. Select the desired duration.



· Selected duration is displayed.

(5) Press (SET) button.

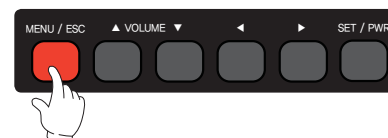
The setting has been completed.



· **[F2]** is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(6) Press (MENU/ESC) button.



· **[--]** is displayed and ready for reception.

Note!

What is time display setting mode ?

Duration of displaying call number received on Main unit.

[Call number is displayed for 30 seconds as default is set for 30]

※ Call number display is stayed on if 0 is set.

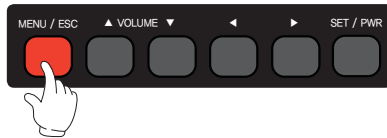


Sound repeat setting mode

· Set sound repeat number.

(1) Press and hold (MENU/ESC) button for 3 seconds.

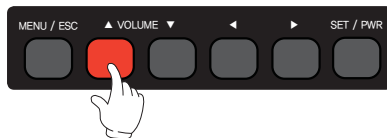
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

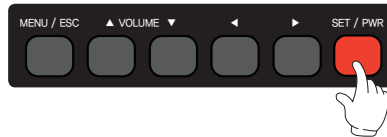
(2) Press (▲) button 3 times.

This is sound repeat setting mode.



· [F3] is displayed.

(3) Press (SET) button.

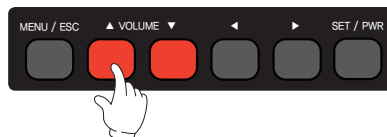


· [1] is displayed.

※ 1 is set for default. (Unit : number)

e.g.) 1 : repeat once
2 : repeat twice
3 : repeat 3 times

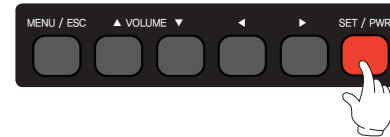
(4) Press (▲▼) buttons. Sets desired number .



· The selected number is displayed.

(5) Press (SET) button.

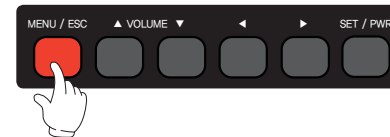
The setting has been completed.



· [F3] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(6) Press (MENU/ESC) button.



· [--] is displayed and ready for reception.

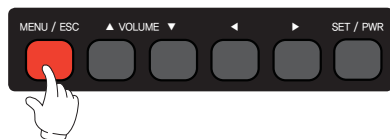


Selected sound setting mode

· Sets bell sound for individual Bells.

(1) Press and hold (MENU/ESC) button for 3 seconds.

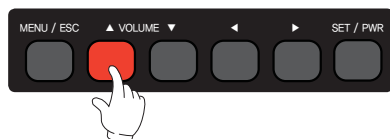
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

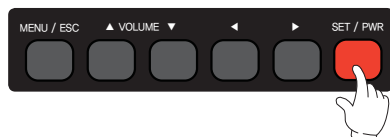
(2) Press (▲) button 4 times.

This is selected sound setting mode.



· [F4] is displayed.

(3) Press (SET) button.



[e.g.]

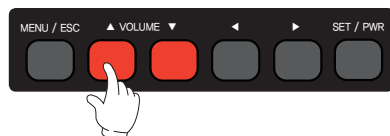


Call number

Bell sound ID

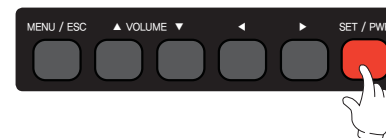
· Registered call number and bell sound ID is displayed and blinking.

(4) Press (▲▼) buttons. Select a call number you want to change.



· Selected call number is displayed and blinking.

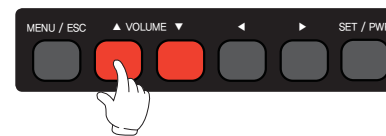
(5) Press (SET) button.



· Bell sound of selected call number is played and stop blinking.

(6) Press (▲▼) buttons. Select Desired sound ID.

Bell sound is played in sequence.



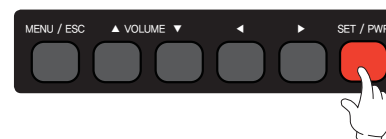
· Selected bell sound ID is displayed.

(7) Press (SET) button.

Do you want to change ?

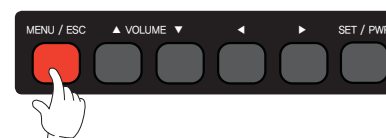
(8) Press (SET) button.

It has been changed.



· To change another call number and its bell sound id, repeat the processes from (4) to (8).

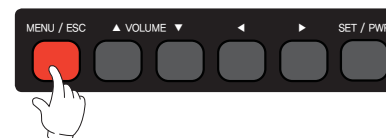
(9) Press (MENU/ESC) button.



· [F4] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(10) Press (MENU/ESC) button.



· [---] is displayed and ready for reception.

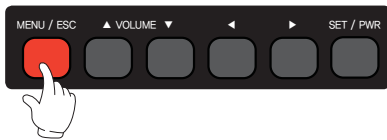


Repetition call setting mode

· Sets interval for redundant calls.

(1) Press and hold (MENU/ESC) button for 3 seconds.

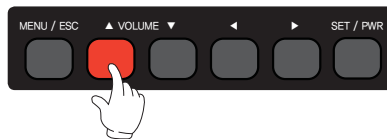
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

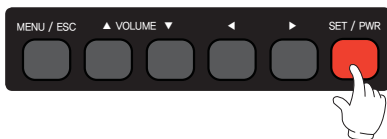
(2) Press (▲) button 5 times.

This is repetition call setting mode.



· [F5] is displayed.

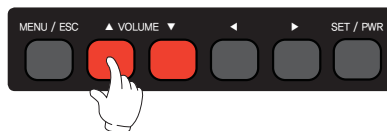
(3) Press (SET) button.



· [3] is displayed.

※ 3 is set for default. (Unit : second)

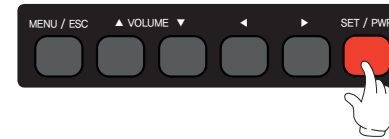
(4) Press (▲▼) buttons. Sets the desired number.



· Selected number is displayed.

(5) Press (SET) button.

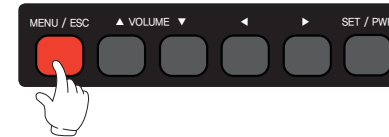
The setting has been completed.



· [F5] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(6) Press (MENU/ESC) button.



· [---] is displayed and ready for reception.

Note!

What is repetition call setting mode?

Redundant call is ignored for certain period of time.

[Redundant call is ignored for 3 seconds as 3 is set for default]

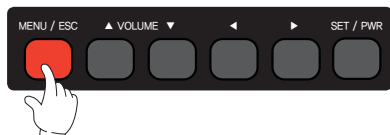


Call number changing mode

· Assigns different call number for the Bell.

(1) Press and hold (MENU/ESC) button for 3 seconds.

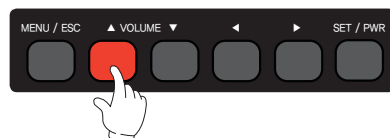
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

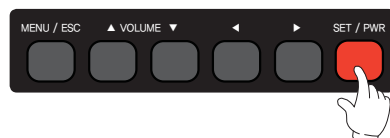
(2) Press (▲) button 6 times.

This is call number changing Mode.



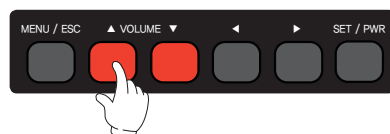
· [F6] is displayed.

(3) Press (SET) button.



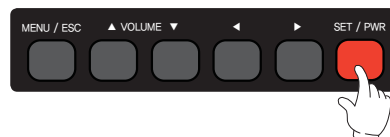
· Registered call number is displayed.

(4) Press (▲▼) buttons. Select the call number you want to change.



· Selected call number is displayed.

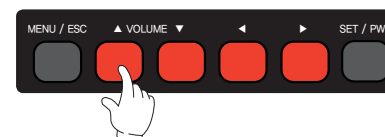
(5) Press (SET) button.



· The Last digit is blinking.

(6) Press (▲▼◀▶) buttons. sets desired to call number.

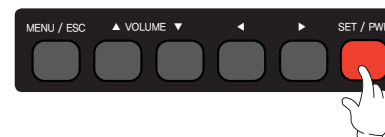
· Press (◀▶) buttons to move to different digits.



· Set call number is displayed.

(7) Press (SET) button. Do you want to change ? · Set call number is blinking.

(8) Press (SET) button. It has been changed.

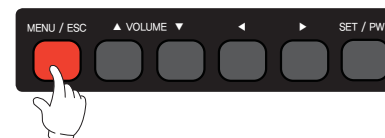


· Registered another number is displayed.

· "It has been changed." is played.

· To change another call number, repeat the processes from (4) to (8).

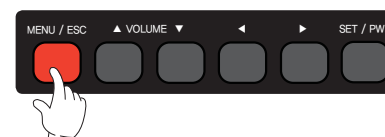
(9) Press (MENU/ESC) button.



· [F6] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(10) Press (MENU/ESC) button.



· [---] is displayed and ready for reception.

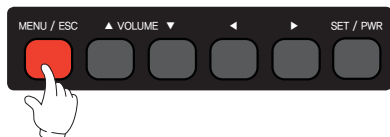


Deleting selected call number mode

· Deletes call number from the list using the Bell.

(1) Press and hold (MENU/ESC) button for 3 seconds.

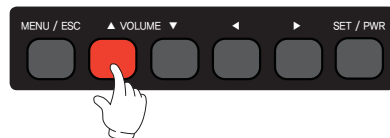
This is Call Number Registration Mode.



· Entering setting mode as **[F0]** is displayed.

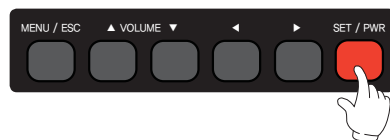
(2) Press (▲) button 7 times.

This is deleting selected call number mode.



· **[F7]** is displayed.

(3) Press (SET) button.



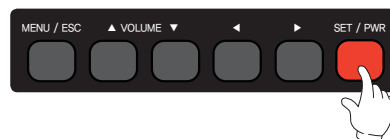
[e.g.]

Total registered



(4) Press (SET) button.

Press the call number.



[e.g.]

Total registered



· Blinking **[---]** is displayed.

(5) Press the delete button.

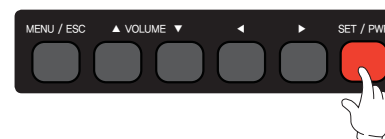
Do you want to delete it ?



· Selected call number is displayed and blinking.

(6) Press (SET) button.

It has been deleted.



[e.g.]



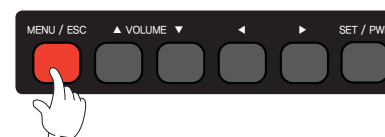
· Blinking **[---]** is displayed.

· "It has been deleted." is played.

· To delete another call number, repeat the processes from (4) to (6).

Total registered

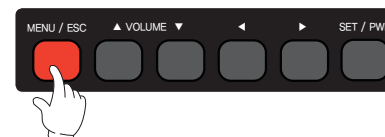
(7) Press (MENU/ESC) button.



· **[F7]** is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(8) Press (MENU/ESC) button.



· **[---]** is displayed and ready for reception.

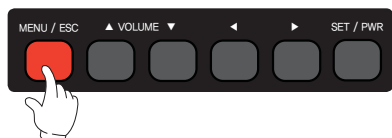


Every call number deleting mode

· Deletes all call number on the registered call number list.

(1) Press and hold (MENU/ESC) button for 3 seconds.

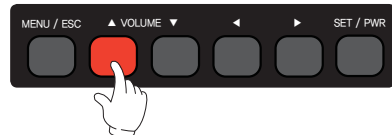
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

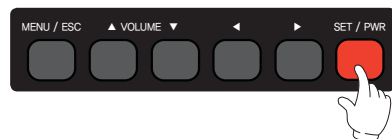
(2) Press (▲) button 8 times.

This is Every call number deleting mode.



· [F8] is displayed.

(3) Press (SET) button.



· Blinking [AL] is displayed.

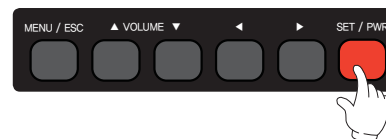
[e.g.]



Total registered

(4) Press (SET) button.

Do you want to delete all the numbers ?



· Blinking [DE] is displayed.

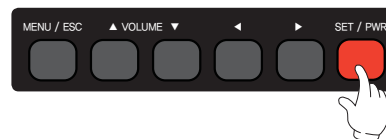
[e.g.]



Total registered

(5) Press (SET) button.

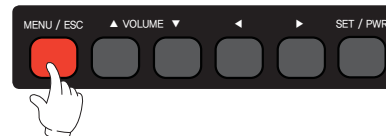
It has been deleted.



· [F8] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(6) Press (MENU/ESC) button.



· [---] is displayed and ready for reception.



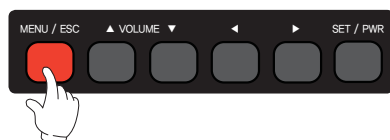
See all numbers or deleting each call number mode

· All register list / Deletes call number from the list using the main Unit.

All register list

(1) Press and hold (MENU/ESC) button for 3 seconds.

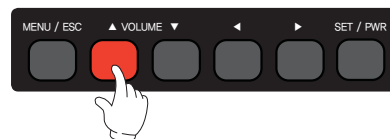
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

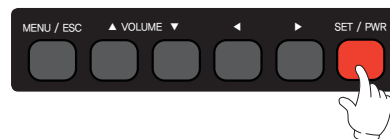
(2) Press (▲) button 9 times.

This is see all numbers or deleting each call number mode.

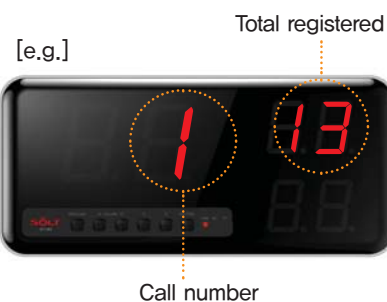


· [F9] is displayed.

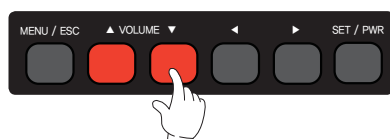
(3) Press (SET) button.



· Registered call number is displayed.



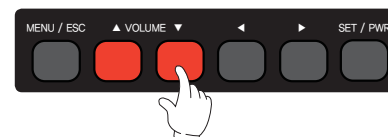
(4) Press (▲▼) buttons. You can check the entire call number is registered.



· Registered with the call number will be displayed sequentially.

Deleting call number

(5) Press (▲▼) button. Select the call number you want to delete.



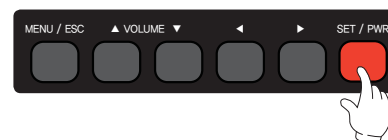
· Selected call number is displayed and blinking.

(6) Press (SET) button.

Do you want to delete it ?

(7) Press (SET) button.

It has been deleted.

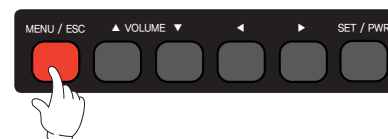


· Selected Call number is deleted and total registered number is changed accordingly.

· To delete another call number, repeat the processes from (5) to (7).



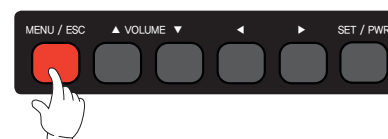
(8) Press (MENU/ESC) button.



· [F9] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(9) Press (MENU/ESC) button.



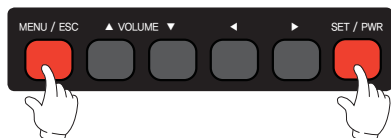
· [---] is displayed and ready for reception.



New call number sequence registration mode

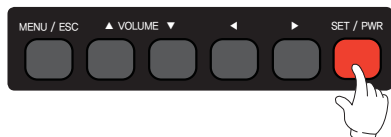
· Sequential registration call number.

(1) Press and hold (MENU + SET) button for 3 seconds.



· Entering setting mode as **[E1 Sb]** is displayed.

(2) Press (SET) button.



· blinking **[1]** is displayed.

(3) Press the bell button to register. Sequence is registered.

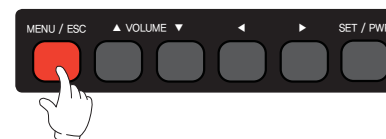
· Sequential register : 1, 2, 3, 4, 5, 10, 11,

※ If you are not sequential registration.

- Press (◀▶) buttons to move to different digits.
- Press (MENU) button to toggle form Number mode to English mode.

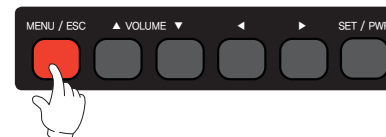


(4) Press and hold (MENU) button for 3 seconds when registration is finished.



· **[E1 Sb]** is displayed and return to previous step.

(5) Press (MENU/ESC) button.



· **[--]** is displayed and ready for reception.

| | |
|--------------|--|
| Number mode | 0123456789 (Blank) |
| English mode | AbCdEfGh IjKlNnoPq- StUvWxYz- (Blank) |

Checkup prior to a notification

- If you find the symptom as following from your product, please recheck.
It may not be an obstacle.

| Main / Bell | |
|--|--|
| Trouble | Check |
| No power-on on main transmitter. | <p>Check the power connection of a main transmitter and if the adaptor is fitted to an outlet correctly.</p> <p>※ As an adaptor is a consumptive goods, we recommend to change it through our agency or AC220V INPUT , DC12V 1A for your direct purchasing.</p> |
| Main display does not receive the number or displays a different number. | <p>Check if the bell is registered to main monitor and if dip switches are changed.</p> <p>(Refer to " All register list " on page 28)</p> |
| When push a bell, it does not make a call, not lighting a LED. | <p>If the battery of a bell is consumed or reached to a low voltage, please change to new one.</p> <p>※ The Bell includes batteries usable for 2~3 years.</p> <p>※ CR2032 Coin Cell Battery 1EA</p> |

- ※ As this product is a wireless communication equipment, it may not receive a number or a different number due to a surrounding environment or an interference of electronic machine.