



User's manual

SM7

- Thank you for purchasing Solt wireless calling system products.
- Please read this user's guide carefully before using and follow the instructions.
- Specification and instructions are subject to change without notice.

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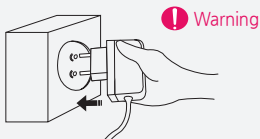
Important Safety Instructions

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.

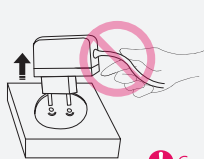
Warning This sign warns of possible death or serious injury to persons and/or property.

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

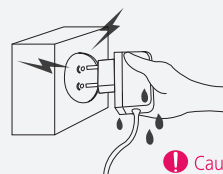
Power related



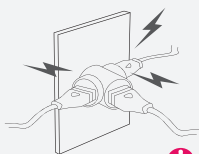
Warning
Make sure the power plug is correctly inserted in to the wall outlet.
[If the plug is inserted improperly, it may cause electric shock or generate heat resulting in fire.]



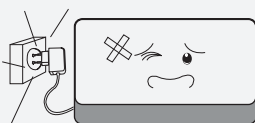
Caution
Never do anything that might cause damage to the cord or power plug.
[This may generate heat resulting in fire.]



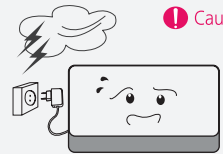
Caution
Do not connect or disconnect the power plug with wet hands.
[This may result in electric shock.]



Warning
Do not use multiple power plugs on one connector. [This may generate heat resulting in fire.]

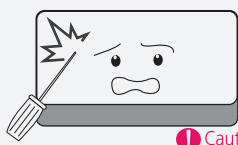


Caution
Unplug the power plug if the main unit is damaged. [It may cause electric shock or generate heat resulting in fire. Please contact service center.]

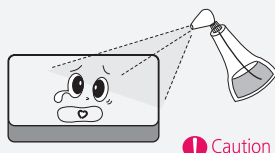


Caution
Unplug the power plug, in case of lightning or when unused for long periods of time. [It may cause electric shock or generate heat resulting in fire.]

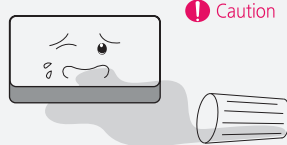
Handling



Caution
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.]



Caution
Do not clean the unit with water, benzene, or paint thinner. It may damage insulation of electrical parts resulting in electrical shock or fire.

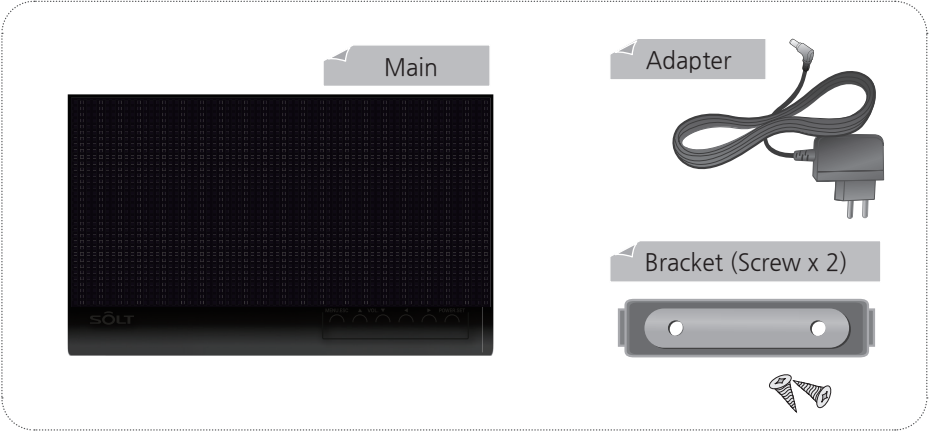


Caution
If foreign object enters the unit, please contact service center. It may damage internal parts of the unit resulting in fire electrical shock or fire.



Warning
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.

Supplies Per Model



Specifications;

Model	SM7
Frequency(MHz)	433.10 ~ 434.70
Data Rate	1800 bps
Channel space	12.5 KHz
Sensitivity	-118dBm (at Direct)
Power Supply	DC 12V 2A Adapter
Dimension(mm)	261 × 165 × 37
Antenna	Built-in Helical antenna

Installation guide

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

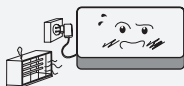
① Location

Avoid metal plates, electrical wires, and LED lighting that could 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.



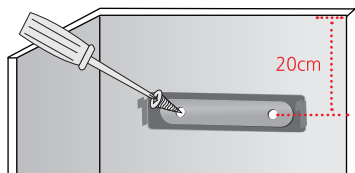
⚠ Warning

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



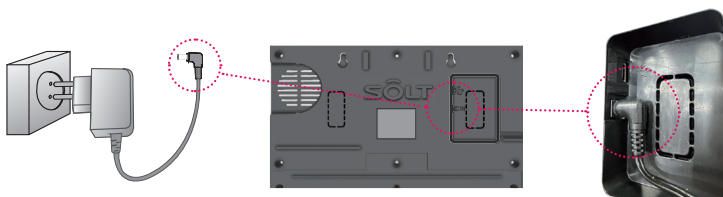
⚠ Caution

② Bracket Installation

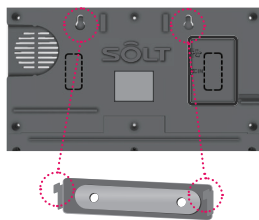
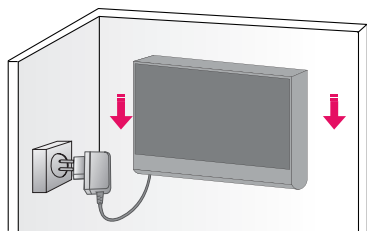


Wall mount bracket should be placed at least 20cm below the ceiling. Reception range can be shortened if placed less than 20cm.

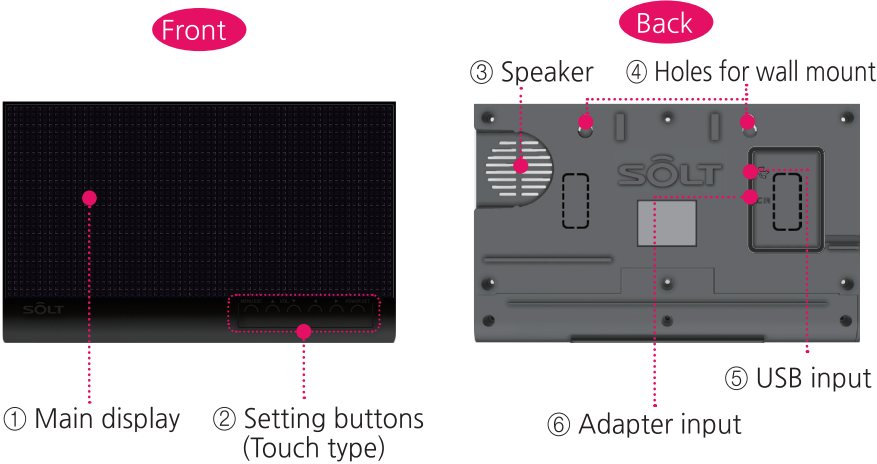
③ Power Cord (Use the adapter provided in the package.)



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



Name of each section



- ① Display call numbers and wait status : The text is activated, and the bell icon blinks while waiting for reception.
- ② Setting buttons

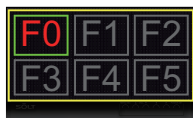
MENU.ESC	· Menu button in setting mode · Alphabetic, numeric and special characters changing button
▲ ▼	· Up/ Down buttons · Changing volume (0-9 levels): default level is 5
◀ ▶	· Left / Right buttons
SET / PWR	· Storing button for set value · Power button

- ③ Speaker : 1.5W / 50Φ x 1.25mm
- ④ Holes for wall mount : Refer to item 4 of Installation Guide in page 5.
- ⑤ USB input : For debugging
- ⑥ Adapter input : AC100-240V~ 0.6A 50/60Hz
- ⑥ Adapter output : 12V  2A 24W

List of setting modes for Main receiver

Each setting mode below is activated with using Setting buttons.

F0	New call ID registration mode Adds new call ID to the list.
F1	Sound setting mode Sets bell sound for all bells. (22 bell sounds / default value is 1st sound)
F2	Display time setting mode Sets display duration. (default value is 30 seconds)
F3	Sound repeat setting mode Sets ring repetition number. (default value is 1)
F4	Selected sound setting mode Sets bell sound for individual bells
F5	Repetition call setting mode Sets interval for redundant calls (default value is 3 seconds)
F6	Call ID changing mode Assigns different call ID for the bells.
F7	Call ID deleting mode using the bell Deletes call ID from the list using the bell
F8	All call IDs deleting mode Deletes all call IDs on the registered call ID list
F9	Checking all registered call IDs and deleting individual call ID All registered call IDs list / Deletes call ID from the list using the main Unit.



New call ID registration mode

·Adds new call ID to the list.

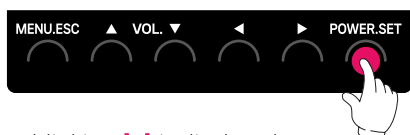
(1) Press and hold (MENU.ESC) button for 3 seconds.

This is call number registration mode.

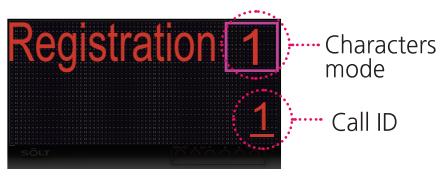


·Entering setting mode as **F0** is displayed.

(2) Press (SET) button.



·blinking **[1]** is displayed.



(3) How to register sequentially from number 1.

Press a call button to register as number 1.

The number has been registered.

Number of cursor location is changed to '2', and when other call button that is to be registered as No.2 is pressed, it is registered as No.2

Thus each time next call buttons are pressed in order, sequential registration is made from No.1.



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

※ Characters

Numbers	0 ~ 9	English Letters (Capital Letters)	A ~ Z	English Letters (Lower case letters)	a ~ z
Special characters	! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { } ~ ■ (Blank)				

(3)-1 If you want to change to other characters, refer to following table.

Character Change	Numbers	You can select call ID in number by pressing SET button. When call ID selection mode is activated, the color of call ID turns green then you can select call ID using up and down arrow buttons.	
	Letters, Special letters	Selectable each time the MENU button is pressed (Numbers, English Capital Letters, English Lower Case Letters, Special Characters).	
Digit Location Shift (Cursor Movement)		You can move the cursor with the left and right direction keys.	
		The cipher is changing.	

(4) 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.

(5) Press (MENU.ESC) button.



· [A] is displayed and ready for reception.

Note!

『SRW-Web』 makes editing more accessible.
For more information, see page 28



Sound setting mode

·Sets bell sound for all Bells.

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

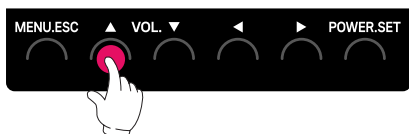
 This is call number registration mode.



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

(2) Press (▲) button once.

 This is sound setting mode.



·**[F1]** is displayed

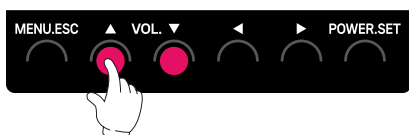
(3) Press (SET) button.



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

※ default value is 1.

(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



Display time setting mode

·Sets display duration.

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

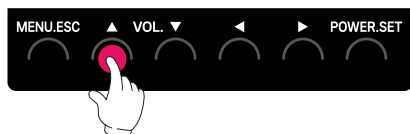
 This is call number registration mode.



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

(2) Press (▲) button twice.

 This is time display setting mode.



·**[F2]** is displayed.

(3) Press (SET) button.

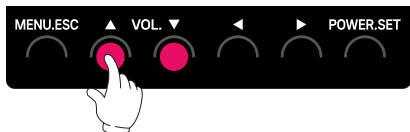


·Blinking **[30 s]** or **[2 s]** is displayed.

※ Call only models : Default setting is 30 seconds.

※ Call & Cancel models : Default setting is 2 seconds.

(4) Press (▲▼) buttons. Select the desired display time.



·Selected display time is displayed.

※ Unit

[s] : sec, [m] : min, [h] : hour, [∞] : continuous

(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 display time ?

1. Call only models : Duration of Call ID display
2. Call & Cancel models : Duration of each toggling of Call IDs in case of calls more than display limit.

※ If the setting value is [∞], the call number will continue to appear.



Sound repeat setting mode

·Set sound repeat number.

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

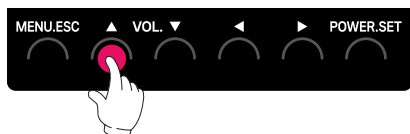
 This is call number registration mode.



·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.

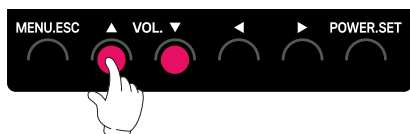
※ 1 is set for default. (Unit : times)

e.g.) 1 : repeat once

2 : repeat twice

3 : repeat 3 times

(4) Press (▲▼) buttons. Set 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.

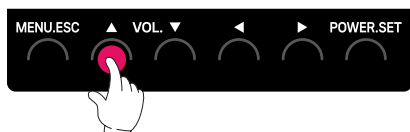
 This is call number registration mode.



·Entering setting mode as [F0] is displayed.

(2) Press (▲) button 4 times.

 This is selected sound setting mode.



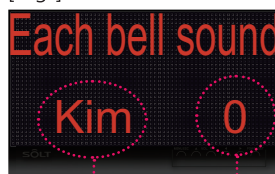
·[F4] is displayed.

(3) Press (SET) button.



·Registered call ID and bell sound ID are displayed and blinking.

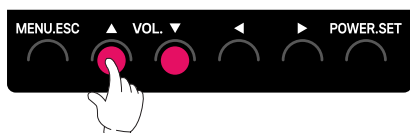
[e.g.]



Call ID

Bell sound ID

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



·Selected call ID is displayed.

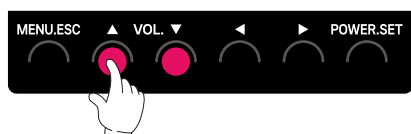
(5) Press (SET) button.



·Already selected bell sound is output and the bell sound number turns green.

(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 select another call ID and change its sound, 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.

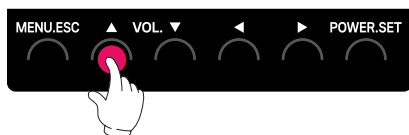
 This is call number registration mode.



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

(2) Press (▲) button 5 times.

 This is repetition call setting mode.



·**[F5]** is displayed.

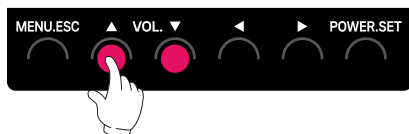
(3) Press (SET) button.



·**[3]** is displayed.

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

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



·Selected number is displayed.

※ Set range: 1~60

(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.



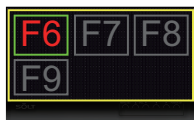
·[🔔] is displayed and ready for reception.

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 ID changing mode

·Assigns different call ID for bells.

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

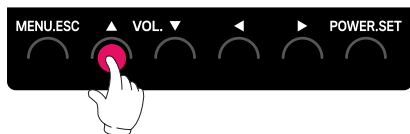
This is call number registration mode.



·Entering setting mode as [F0] is displayed.

(2) Press (▲) button 6 times.

This is call number changing Mode.



·[F6] is displayed.

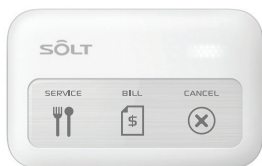
(3) Press (SET) button.

Press the call number.



(4) Press the bell button, which call ID you want to change.

·Call ID is displayed.



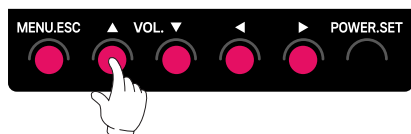
1 Characters mode

1 Call ID

(5) Press (SET) button.

·The call ID changes to green.

(6) Press MENU.ESC, (▲▼◀▶) buttons. sets desired to call ID.



- With MENU button you can select modes of Numbering, English capital letters, English small letters and special characters.
- You can select numbers using up and down (▲▼) buttons.
- You can move digit locations using right and left direction(◀▶) buttons.

(Refer to 'New call ID Registration mode ((3)-1)' for character change method.)

(7) Press (SET) button.  Do you want to change ?

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



- Another registered call ID is displayed.
- The call ID is changed as set.
- To change another call ID, 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.



Call ID deleting mode using the bell

·Deletes call ID from the list using the bell.

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

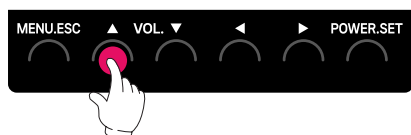
 This is Call Number Registration Mode.



·Entering setting mode as [F0] is displayed.

(2) Press (▲) button 7 times.

 This is deleting selected call number mode.



·[F7] is displayed.

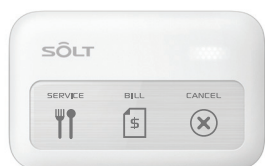
(3) Press (SET) button.

 Press the call number.



Delete each bell
Press the bell

(4) Press the bell button that you want to delete.



·Call ID is displayed.

(5) Press (SET) button.

 Do you want to delete it ?

(6) Press (SET) button.

 It has been deleted.



·The set call ID is deleted.

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

(7) Press (MENU.ESC) button.



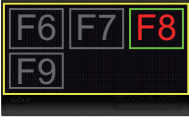
·[F7] is displayed and returns to previous step.

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

(8) Press (MENU.ESC) button.



· is displayed and ready for reception.



All call ID deleting mode

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

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

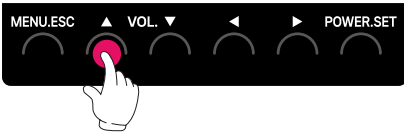
 This is call number registration mode.



·Entering setting mode as [F0] is displayed.

(2) Press (▲) button 8 times.

 This is Every call number deleting mode.



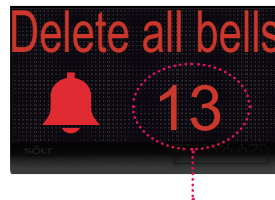
·[F8] is displayed.

(3) Press (SET) button.



·[Total registered bell number] is displayed.

[e.g.]



Total registered bell number

(4) Press (SET) button.

 Do you want to delete all the numbers ?



·Blinking [Total registered bell number] is displayed.

(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.



Checking all registered call IDs and deleting individual call ID

·Shows all registered call ID list / Deletes call ID from the list using the main Unit.

All registered call ID list

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

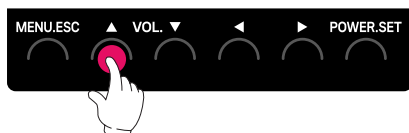
This is call number registration mode.



·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.



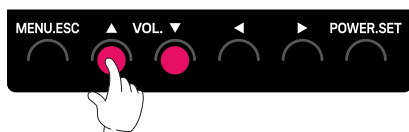
·Registered call ID is displayed.

[e.g.]



Call ID

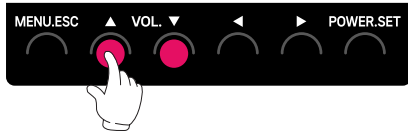
(4) Press (▲▼) buttons. You can check the entire call ID is registered.



·Registered with the call ID will be displayed sequentially.

Deleting individual call ID

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



·Selected call ID is displayed.

(6) Press (SET) button.



(7) Press (SET) button.



·Selected call ID is deleted and total registered bell number is changed accordingly.

·To delete another call ID, 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.

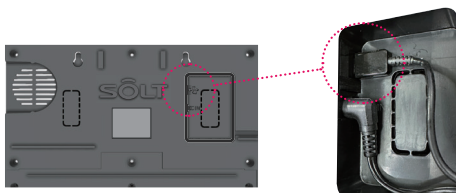


How to use the SOLT Read Write (SRW-Web)

·Call data registered in SM7 can be read, edited, written and converted to Excel file.

(1) Registering call bells to the receiver (See page 8)

(2) Connect the USB-C type cable to the receiver and PC.



(3) Running soltmeta

(3)-1 Access

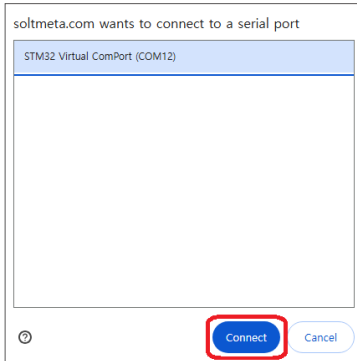
·Access <https://soltmeta.com> at Chrome browser.

It could take time to load the program in case of 1st access.

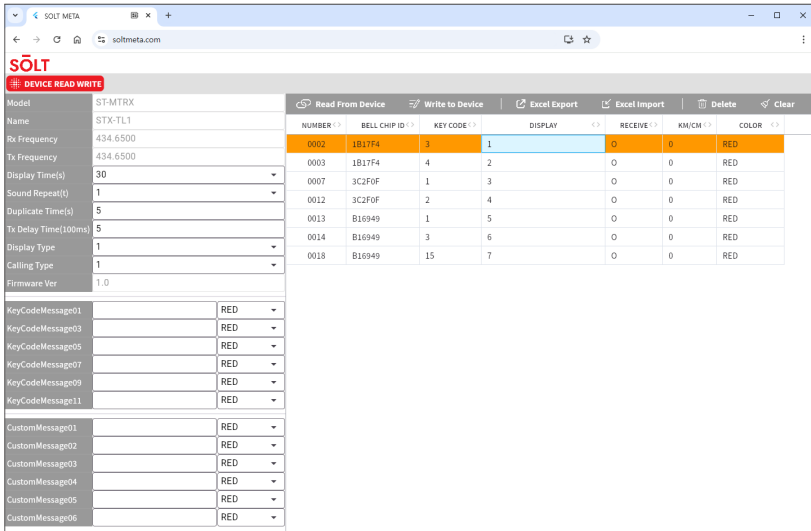
Model	Name	Rx Frequency	Tx Frequency	Display Time(s)	Sound Repeat(t)	Duplicate Time(s)	Tx Delay Time(100ms)	Display Type	Calling Type	Firmware Ver
KeyCodeMessage01		RED								
KeyCodeMessage03		RED								
KeyCodeMessage05		RED								
KeyCodeMessage07		RED								
KeyCodeMessage09		RED								
KeyCodeMessage11		RED								
CustomMessage01		RED								
CustomMessage02		RED								
CustomMessage03		RED								
CustomMessage04		RED								
CustomMessage05		RED								
CustomMessage06		RED								

(3)-2 Read

- Connect Device(SM7) to PC using USB cable and click  button.



- Check the connected port and click Connect icon. Then device setting information and bell data are read as below;



NUMBER	BELL CHIP ID	KEY CODE	DISPLAY	RECEIVE	KM/CM	COLOR
0002	1B17F4	3	1	0	0	RED
0003	1B17F4	4	2	0	0	RED
0007	3C2F0F	1	3	0	0	RED
0012	3C2F0F	2	4	0	0	RED
0013	B16949	1	5	0	0	RED
0014	B16949	3	6	0	0	RED
0018	B16949	15	7	0	0	RED

(3)-3 Write

- Edit device setting information and bell data and click  button. Then the edited data is loaded to the device.



How to use the SOLT Read Write (SRW-Web)

·Call data registered in SM7 can be read, edited, written and converted to Excel file.

(3)-4 Operating Items and Explanation

The screenshot shows the SOLT Read Write (SRW-Web) interface. The interface is divided into several sections:

- Top Bar:** Contains navigation buttons: Read From Device, Write To Device, Excel Export, Excel Import, Delete, and Clear. A red dashed box labeled '1' highlights the 'Read From Device' button.
- Left Panel:** Contains configuration settings for the device, including Name, Tx Frequency, Display Time(s), Sound Repeat(t), Duplicate Time(s), Tx Delay Time(100ms), Display Type, Calling Type, and Firmware Ver. A red dashed box labeled '3' highlights the 'Display Time(s)' field.
- Right Panel:** Contains a table of bell data. A red dashed box labeled '2' highlights the table. The table has columns: NUMBER, BELL CHIP ID, KEY CODE, DISPLAY, RECEIVE, SWITCH, and COLOR. The data rows are:

NUMBER	BELL CHIP ID	KEY CODE	DISPLAY	RECEIVE	SWITCH	COLOR
0002	1B17F4	3	1	0	0	RED
0003	1B17F4	4	2	0	0	RED
0007	3C2F0F	1	3	0	0	RED
0012	3C2F0F	2	4	0	0	RED
0013	B16949	1	5	0	0	RED
0014	B16949	3	6	0	0	RED
0018	B16949	15	7	0	0	RED
- Bottom Panel:** Contains a list of key codes and custom messages. A red dashed box labeled '4' highlights the 'Key Code Message' list, and a red dashed box labeled '5' highlights the 'Custom Message' list. Both lists show 'RED' as the value.

1 Config buttons

- Read From Device: retrieves bell setting information and bell data from a device.
- Write To Device: loads bell setting information and bell data to a device.
- Excel Export: exports current bell setting information and bell data to Excel.
- Excel Import: imports bell setting information and bell data from Excel.
- Delete : deletes selected 1 bell data.
- Clear : deletes all the bell data.

2 Call Bell Data Information

- NUMBER: Index numbers of buttons.
- BELL CHIP ID: Chip ID numbers of a bells (bell's identity)
- KEY CODE: Key-codes of buttons.
- DISPLAY: Contents to be displayed when buttons are pressed.
- RECEIVE: Mark of receiving or not receiving from buttons, If "O" marked, call from the button is made and if "X" marked, the call from the button is not made.
- KM/CM: Setting KeyCodeMessage or CustomMessage displayed along with Display message.

KM/CM	KEY CODE	Displayed on the device
(empty)	(empty)	DISPLAY contents
0	1	KeyCodeMessage01 + DISPLAY contents
0	3	KeyCodeMessage03 + DISPLAY contents
0	5	KeyCodeMessage05 + DISPLAY contents
0	7	KeyCodeMessage07 + DISPLAY contents
0	9	KeyCodeMessage09 + DISPLAY contents
0	11	KeyCodeMessage11 + DISPLAY contents
1	(empty)	CustomMessage01 + DISPLAY contents
2	(empty)	CustomMessage02 + DISPLAY contents
3	(empty)	CustomMessage03 + DISPLAY contents
4	(empty)	CustomMessage04 + DISPLAY contents
5	(empty)	CustomMessage05 + DISPLAY contents
6	(empty)	CustomMessage06 + DISPLAY contents

<Table 3-4>

- COLOR: Selection of Display message color [Selectable colors : RED, GREEN, BLUE, YELLOW, CYAN, PURPLE, WHITE].



How to use the SOLT Read Write (SRW-Web)

·Call data registered in SM7 can be read, edited, written and converted to Excel file.

3 Device information

- Model: Model name of connected device.
- Name: Product name of connected device.
- Rx Frequency: Receiving frequency of connected device.
- Tx Frequency: Transmitting frequency of connected device.
- Display Time: Call display keeping time(call only mode), Unit is seconds, If [0](zero) is selected, call displays are kept continuously.
** In call-cancel mode it is display turning time to next call display.
- Sound Repeat: Call alarm sound repeat time, Selectable among [1,2,3,4,5,10,15,20,25,30], If [0] is select, the call alarm sound is repeated until The relevant cancel is made.
- Duplicate Time: Repeated call blocking time, Unit is second, Settable from [1] to [60].
- Tx Delay Time: Settable for devices with Repeater function. Unit is msec., Signal sending after this time from signal receiving.
- Display Type: Selectable among [1,2], If [1] selected, display in a line and if [2] selected, display in two lines.
- Calling Type: Selectable among [1,2], If [1] selected, call only functioning set and if [2] selected, call-cancel function set.
- Firmware Ver: Firmware version of connected device.

4 Keycode messages, 5 Custom messages

- See page 31 <Table 3-4>

Checkup prior to a notification

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

Trouble	Check
No power-on on main receiver.	Check if the power connection state of a main receiver and the connection of adaptor to an outlet are done correctly. ※ As an adaptor is a consumptive goods, we recommend to AC100~240V 50/60Hz input, DC12V 2A for your direct purchasing.
Main display does not receive calls.	Check if the bells are registered to main receiver. (Refer to " All registered call ID list " on page 26)
When push a bell, it does not make a call, not lighting a LED.	If the battery of a bell is consumed or reached to a low voltage, please change to new one. ※ The Bell includes batteries usable for 1years.

※ 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.

MEMO

Handwriting practice lines consisting of 20 horizontal dotted lines.

MEMO

SÔLT