



Direct Pager SB-650

User Manual

Please read the user manual carefully before start using the device.

Safety Information

- ◆ Please use the device only with the power AC adapter (5V/1A) provided by manufacturer.
 - Using the device with unauthorized accessories may cause a fire, electric shock, and product malfunction.
 - Please do not use high-speed charger (9V), it causes the damage of charging circuit and this will be not in warranty.
- ◆ Please do not disassemble, modify or repair this device without permission from the manufacturer.
 - It may cause a fire, electric shock, and product malfunction.
- ◆ Please keep the device away from water or watery area.
 - It may cause electric shock and product malfunction if you keep using it with wet hands or when the device is wet.
- ◆ Please do not subject it to shock.
 - It may cause a crack of the screen and product malfunction, if you drop or handle the device roughly.

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1. Components & Specification

Components



Pager



Charging dock



Power Adapter
and Charging Cable
(DC5V 1A, Micro USB)



User Manual

Specification

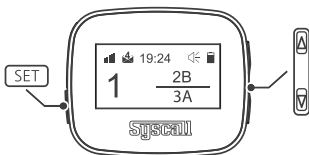
Frequency	FSK/433.42MHz
Power	AC 100~240V/DC 5V/1A
Battery	3.7V / 320mAh (Li-polymer)
Dimension	W46.7 x L38.1 x H13.5(mm)
Weight	50g
Color	Red Black, Silver Black

Features

1. Watch-type portable pager
2. Water-resistance
3. Longer-lasting battery
4. Firmware update through software
5. Wireless bell data copy
6. Alphanumeric pager, can add icons

2. Buttons & Charging the Battery

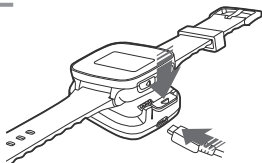
a. Buttons



Button	Function	
Short press to 	In setting mode	- Enter the setup menu. - Change text [Press the button until the desired number, alphabet, special character and/or icon appears]
	In home screen	- Read new message

Press and hold for 2sec to 	In setting mode	- Enter the 'Setting mode'
	In home screen	- Switch the text type – from the numbers to the alphabet to the special character. (Only applicable while the cursor is blinking.)
	In inbox	- Delete message
	Press and hold for 5sec to turn power on/off.	
Press to 	In setting mode	- Menu shift - Cipher shift (or increment cursor position) - Add icons in the text mode (Only applicable when the cursor stops blinking)
	In home screen	- Move to the next page
	In inbox	- Move to the next message
Press to 	In setting mode	Save & exit or cancel
	In home screen	Check battery level
	In inbox	Exit from the inbox

b. Charging the Battery



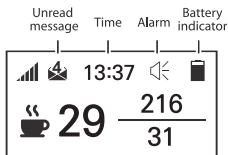
- 1 Connect the USB cable to the power adapter.
- 2 Insert the Micro-USB jack into the charging dock.
- 3 Put the pager onto the charging dock for charging.
- 4 Press the right side of the charging dock to remove the pager.

⚠ Caution

- Please use the device only with the power AC adapter (5V/1A) provided by manufacturer.
- If you use high-speed charger (9V), it causes the damage of charging circuit.
- It should be connected to a power source with AC110~240V.

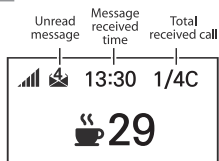
3. Display

Home Screen Display



- The pager goes to the sleep mode if not in use for 15sec. Tap  button to wake it up.
- When message received, it will be displayed on the screen with sound and/or vibration.
- You can check more than 2 messages depending on the display type.
- You can check the battery level on the top right corner. If there are received messages, tap  button to check.
- The pager can be programmable through the bundled software.

Message Display



- Tap **[SET]** button to read a new message.
- The Bell ID can be created up to 10 digits using the combination of alphanumeric, special characters and icons.
- The messages can be stored up to 20, and you can check the number of unread messages
- Touch and hold **[SET]** button for 1 sec to delete each message, and tap **[A]** button once more to delete all messages.

4. About SB-650

There are four setup menus in SB-650, and each setup menu contains sub-setup menus as below.



- 1 Bell Setting**
- 2 Sound Setting**
- 3 Display Setting**
- 4 Tools**

Num	Function	Default	Scope	Description
①	Bell Registration	-	Up to 10 digits	New bell registration and re-registration
	Pn/Gn Setting	1/0,0~0	1/0~99	Set Pn/Gn when it works with a multi-transmitter
	Delete the Bell	-	-	Delete the registered bell
		Call	Call/etc	Set ① button icon
		Bill	Bill/etc	Set ② button icon
Clear		Call/Bill/Clear/etc	Set ③ button icon	
②	Sound Setting	Vibr	Sound/Vibr/Sound+Vibr/Mute	Choose the type of alarm
③	Time Setting	00:00	23h 59m 59s	24h digital watch
	Display Type	430	430/440/350/A10	4 type of display mode
	Delay Time	0sec	0~60(sec)	To prevent alarm duplicated
	Alarm Setting	1sec	0~60(sec)	Set the alarm time
	Clr-bell Sound	on	on/off	Clear bell alarm ON/OFF
④	Test Mode	-	-	Self-test of button keys, sound, RF and screen
	Device Info	-	-	Version, user ID, number of registered bell
	Data Copy	-	-	Wireless data copy
	Initialization	-	-	Initializing all data

5. Bell Setting

5-1. Bell Registration

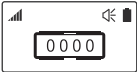
New bell registration and re-registration under different Bell ID.

1. Password Field



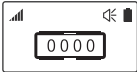
Touch and hold 'SET' button for 1sec

2.Enter Password "0000"



Tap 'Δ' button 3 times

3.Go to Settings



Tap 'Δ' button once

4.Select Bell Setting



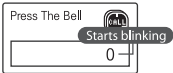
Tap 'SET' button once

5.Select Bell Registration



Tap 'SET' button once

6.Enter the Bell ID



Tap 'SET' button once more to enter the ID

7.Create the Bell ID



Touch and hold 'SET' for 1sec to change text options

Button	Motion	Function
SET	Tap	Change 0 to 1~9
	Touch and hold 1sec	Number->Special characters-> Alphabet
Δ	Tap	Shift the cursor position
V	Tap after stop blinking	Choose the icon
	Tap	Exit

8.Bell Registration



Press the bell once
(Press the bell once more to re-register.)

*If the bell is already registered, 'Re-registration' message will appear, press the bell once more to re-register.

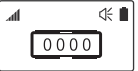
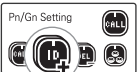
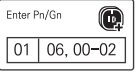
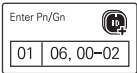
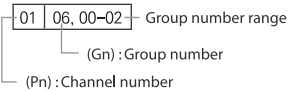
*Repeat no.7 & 8 for bell registration.

*After bell registration, the Bell ID will be updated automatically. (ex. A1->A2)

*You can create the Bell ID up to 10digits, but it will not display all depending on display type setting. From Message Display, you can check all digits. (Refer to p14, 7-2.Display Type Setting)

5-2. Channel/Group Number Setting

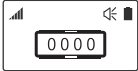
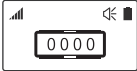
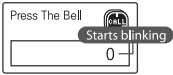
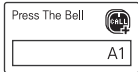
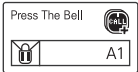
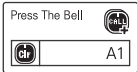
Set Pn/Gn when it works with a multi-transmitter.

1. Password Field  Touch and hold 'SET' button for 1sec	2. Enter Password "0000"  Tap 'Δ' button 3 times	3. Go to Settings  Tap 'Δ' button once
4. Select Bell Setting  Tap 'SET' button once	5. Select Pn/Gn Setting  Tap 'Δ' once then 'SET' once	6. Enter Pn/Gn  SET : Increase number Δ : Shift the cursor position
7. Save & Exit		
 Tap 'V' button  (Pn) : Channel number (Gn) : Group number range		

*If a Channel/Group number is registered in the product, it may be used in separation among products, with ID allocated. Channel numbers may be set 01~99 and group numbers 00~99. And multiple group numbers may be selected in a range.

5-3. Clear Bell Registration

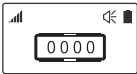
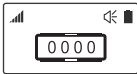
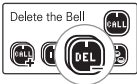
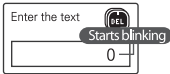
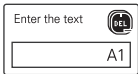
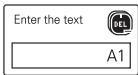
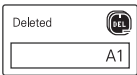
Register a clear bell for each registered bell.

1.Password Field  Touch and hold 'SET' button for 1sec	2.Enter Password "0000"  Tap 'Δ' button 3 times	3.Go to Settings  Tap 'Δ' button once
4.Select Bell Setting  Tap 'SET' button once	5.Select Bell Registration  Tap 'SET' button once	6.Enter the Bell ID  Tap 'SET' button once more to enter the ID
7.Registered Bell ID Input  To be written the same as registered bell ID	8.Icon Selection  Tap 'Δ' button after stop blinking	9.Clear Bell Icon Selection  Tap 'SET' button to find icon
10.Clear Bell Registration  Press the bell once (It is completed when 'Registered' appears.)	*Example  Register 'A1' clear bell to delete as it is 'A1' is cleared from the pager	

⚠ Clear bell could be applied only to the bells that do not use any icons.

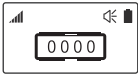
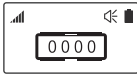
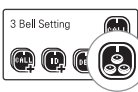
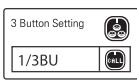
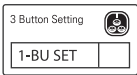
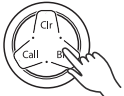
5-4. Delete the Registered Bell

A Bell registered in SB-600 can be deleted.

1. Password Field	2. Enter Password "0000"	3. Go to Settings																
 Touch and hold 'SET' button for 1sec	 Tap 'Δ' button 3 times	 Tap 'Δ' button once																
4. Select Bell Setting	5. Select Delete the Bell	6. Enter the Bell ID																
 Tap 'SET' button once	 Tap 'Δ' twice then 'SET' once	 Tap 'SET' button once more to enter the ID																
7. Enter the Bell ID to Delete *The function of buttons for creating the Bell ID																		
 Enter the bell ID and wait until stop blinking	<table border="1"> <thead> <tr> <th>Button</th> <th>Motion</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td rowspan="2">SET</td> <td>Tap</td> <td>Change 0 to 1~9</td> </tr> <tr> <td>Touch and hold 1sec</td> <td>Number->Special characters-> Alphabet</td> </tr> <tr> <td rowspan="2">Δ</td> <td>Tap</td> <td>Shift the cursor position</td> </tr> <tr> <td>Tap after stop blinking</td> <td>Choose the icon</td> </tr> <tr> <td>▽</td> <td>Tap</td> <td>Exit</td> </tr> </tbody> </table>		Button	Motion	Function	SET	Tap	Change 0 to 1~9	Touch and hold 1sec	Number->Special characters-> Alphabet	Δ	Tap	Shift the cursor position	Tap after stop blinking	Choose the icon	▽	Tap	Exit
Button	Motion	Function																
SET	Tap	Change 0 to 1~9																
	Touch and hold 1sec	Number->Special characters-> Alphabet																
Δ	Tap	Shift the cursor position																
	Tap after stop blinking	Choose the icon																
▽	Tap	Exit																
8. Bell deletion	9. Exit																	
 Touch and hold 'SET' button for 1sec	 Tap '▽' button																	

5-5.3 Button Bell Setting

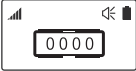
3 button bell may be used for Call/Bill/Clr/3bell image respectively.

1.Password Field  Touch and hold 'SET' button for 1sec	2.Enter Password "0000"  Tap 'Δ' button 3 times	3.Go to Settings  Tap 'Δ' button once
4.Select Bell Setting  Tap 'SET' button once	5.Select 3Bell Setting  Tap 'Δ' 3 times then 'SET' once	6.3Button Setting  SET : Choose icon Δ : Set the next button
*Button Function Setting   1/3BU  Choose ① button icon 2/3BU  Choose ② button icon 3/3BU  Choose ③ button icon 3-BU SET Use basic functions (Call/Bill/Clr) 1-BU SET Use it as an individual button		7.Individual Button Setting  Each button can be registered with a different bell ID individually
8.Bell Registration  Tap 'SET' button once more to enter the ID (Refer to p7, 7.Create the bell ID)	9.3 Button Bell Registration  Press Call or Bill button to register a 3 button bell	10.Individual Button Registration  Press each button to register individually

* 'Clear' button cannot be individually registered under '1-BU SET'.

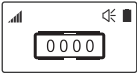
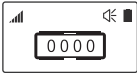
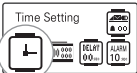
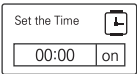
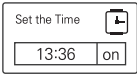
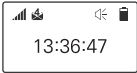
6.Sound Setting

You can choose the type of alarm.

1.Password Field  Touch and hold 'SET' button for 1sec	2.Enter Password "0000"  Tap 'Δ' button 3 times	3.Go to Settings  Tap 'Δ' button once
4.Shift the Menu  Tap 'Δ' button once	5.Select Sound Setting  Tap 'SET' button once	6.Choose Alarm Type  SET : Choose the alarm sound Δ : Choose the alarm type
7.Save & Exit  Tap '▽' button	*Types of Alarm     Sound Vibration Sound+Vibr Mute Each alarm has 4 types.	

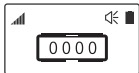
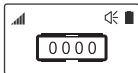
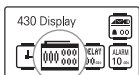
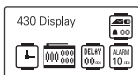
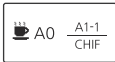
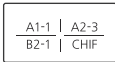
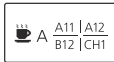
7.Display Setting

7-1.Time Setting

1.Password Field  Touch and hold 'SET' button for 1sec	2.Enter Password "0000"  Tap 'Δ' button 3 times	3.Go to Settings  Tap 'Δ' button once
4.Shift the Menu  Tap 'Δ' button twice	5.Select Display Setting  Tap 'SET' button once	6.Select Time Setting  Tap 'SET' button once
7.Time Setting  SET : Number and on/off setting Δ : Shift the cursor position		8.Save & Exit  Tap '▽' button
**on' mode  Time displayed	**off' mode  User ID displayed (Refer to p17 for User ID Setting)	

7-2. Display Type Setting

Set the display type (430/440/350/A10).

1. Password Field	2. Enter Password "0000"	3. Go to Settings	
			
Touch and hold 'SET' button for 1sec	Tap 'DEL' button 3 times	Tap 'DEL' button once	
4. Select Display Setting	5. Set Display Type	6. Save & Exit	
			
Tap 'DEL' twice then 'SET' once	Tap 'DEL' once then set the type with 'SET' button	Tap 'V' button	
*Display Type			
 430 Display 	 440 Display 	 350 Display 	 A10 Display 
4 digits 3 display	4 digits 4 display	3 digits 5 display	10 digits 2 display

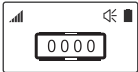
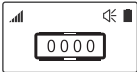
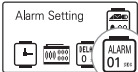
*Some alphabets could not be displayed up to 10 digits.

*With icon, it could not be displayed all digits.

*In A10 Display, please choose each message to check full messages.

7-3.Delay Time/ Alarm Time/ Clear Bell Sound Setting

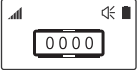
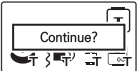
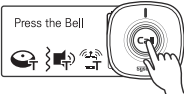
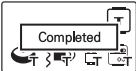
- **Delay Time Setting:** To prevent from receiving a duplicated signal when using it with a repeater.
- **Alarm Time Setting:** Set the alarm time when getting the signal.
- **Clear Bell Sound Setting:** Clear bell alarm ON/OFF

1. Password Field	2.Enter Password "0000"	3.Go to Settings
 Touch and hold 'SET' button for 1sec	 Tap 'Δ' button 3 times	 Tap 'Δ' button once
4.Shift the Menu	5.Select Display Setting	6.Select the Sub-setup Menu
 Tap 'Δ' button twice	 Tap 'SET' button once	 Δ: Select the menu
Delay Time Setting	 *Range: 0~60sec *Default: 0sec Tap 'SET': Change the last digit number Touch and hold 'SET': Change the number in tens	
Alarm Time Setting	 *Range: 0~60sec (Available: 1,3,5,7,10,20,30,40,50,60sec and 00(infinity)) *Default: 1sec 'SET' button: Set the number	
Clear Bell Sound Setting	 'SET' button: Turn on/off the Clr-bell sound	

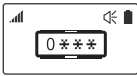
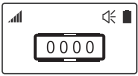
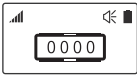
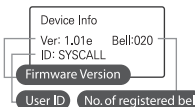
8.Tools

8-1. Self-Test Mode

Self-test of button keys, sound, RF and screen.

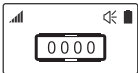
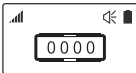
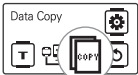
1. Password Field  Touch and hold 'SET' button for 1sec	2.Enter Password "0000"  Tap 'DEL' button 3 times	3.Go to Settings  Tap 'DEL' button once
4. Select Tools  Tap 'DEL' 3 times then 'SET' once	5.Select Test Mode  Tap 'SET' button once	6.Start Self-Testing  Tap 'SET' button once
7.Button Key Test  Tap all the button keys	8.Sound Test  Tap 'SET' button after check the sound	9.RF Test  Press the bell to check RF receiving then tap 'SET' button
10.Screen Test  Check the screen then tap 'SET' button	11.Test Completed 	

8-2. Device Info & User ID Setting

1. Password Field  Touch and hold 'SET' button for 1sec	2. Enter Password "0000"  Tap 'Δ' button 3 times	3. Go to Settings  Tap 'Δ' button once
4. Select Tools  Tap 'Δ' 3 times then 'SET' once	5. Select Device Info  Tap 'Δ' once then 'SET' once	6. Check Device Info  Tap 'SET' for User ID setting *ID must be created with more than one character

8-3. Wireless Data Copy

You can copy the registered bell information and the setup data into other pagers wirelessly.

1. Password Field  Touch and hold 'SET' button for 1sec	2. Enter Password "0000"  Tap 'Δ' button 3 times	3. Go to Settings  Tap 'Δ' button once
4. Select Tools  Tap 'Δ' 3 times then 'SET' once	5. Select Data Copy  Tap 'Δ' twice then 'SET' once <u>'Receiving Mode' setting has to be done first.</u> *Continued in p18.	

6.Receiving Mode Setting

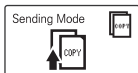


The pager which is 'Receiving Mode' has to be set first.

*Multiple pagers can receive copy data

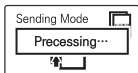
Tap 'SET' button then data copy is ready

7.Sending Mode Setting



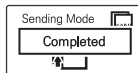
Tap 'Δ' button once

8.Start Data Copy



Tap 'SET' button to start

9.Data Copy Completed



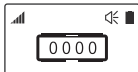
8-4.Initialization

1. Password Field



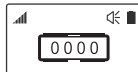
Touch and hold 'SET' button for 1sec

2.Enter Password "0000"



Tap 'Δ' button 3 times

3.Go to Settings



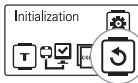
Tap 'Δ' button once

4. Select Tools



Tap 'Δ' 3 times
then 'SET' once

5.Select Initialization



Tap 'Δ' 3 times
then 'SET' once

6.Initialization



Tap 'SET' to initialize
Tap 'V' to cancel

syscall



Syscall

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242 boulevard de Stalingrad 94500 Champigny sur Marne France**

Manufacturer

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413-9 NTTWORKS Bldg, Galhyun-Dong, Eunpyong-Gu Seoul, Korea**