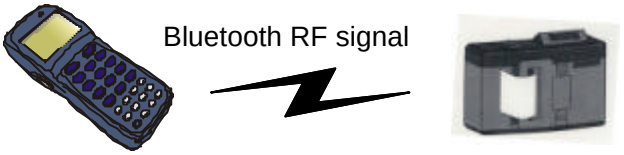
Operation manual

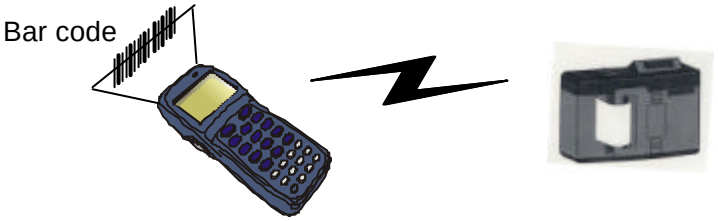
1. Data communication with potable printer.

(1) Registration of portable printer and selection of the portable printer



- Transmits the registration signal from potable printer and register the portable printer at the BHT-8000.
- Transmits the selection signal from BHT-8000 to the portable printer and connect the BHT-8000 with portable printer.

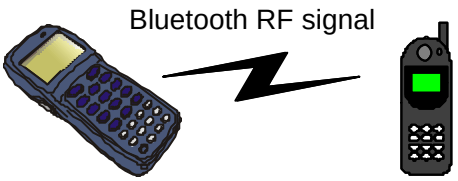
(2) Bar code reading and data transfer



BHT-8000 reads the bar code and transmits the reading data to portable printer. Portable printer prints the receipt.

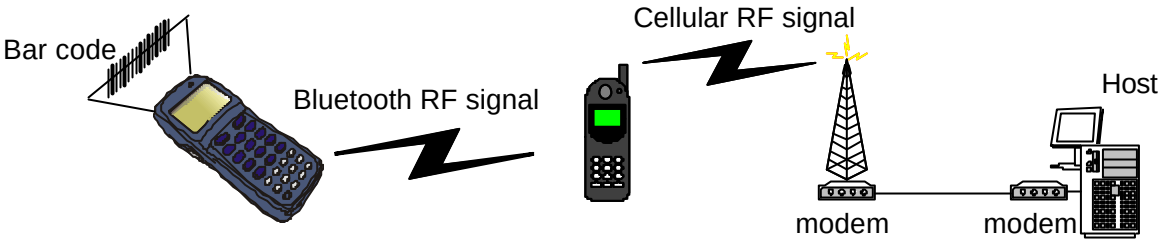
2. Data communication in public circuit

(1) Registration of cell phone and selection of the cellular phone



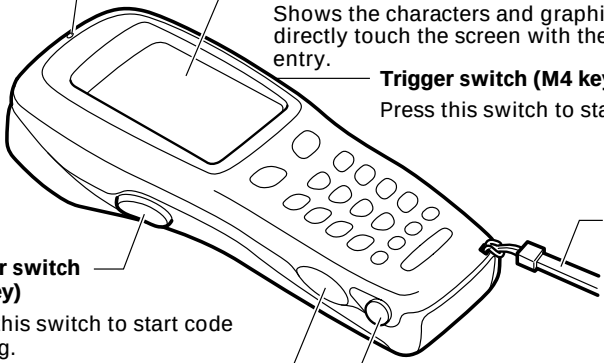
- Transmits the registration signal from cellular phone and register the cellular phone at the BHT-8000.
- Transmits the selection signal from BHT-8000 to the cell phone and connect the BHT-8000 with cellular phone.

(2) Bar code reading and call



When BHT-8000 reads the bar code, the reading data is transmitted from cellular phone to the host by public circuit.

Components and Functions



Indicator LED

Illuminates in green when the BHT has successfully read a 2D code or bar code.

Touch screen LCD (liquid crystal display)

Shows the characters and graphic patterns. You may directly touch the screen with the stylus for data entry.

Trigger switch (M4 key)

Press this switch to start code reading.

Hand strap

Be sure to put your hand through this strap to prevent you from dropping the BHT accidentally.

Trigger switch (M3 key)

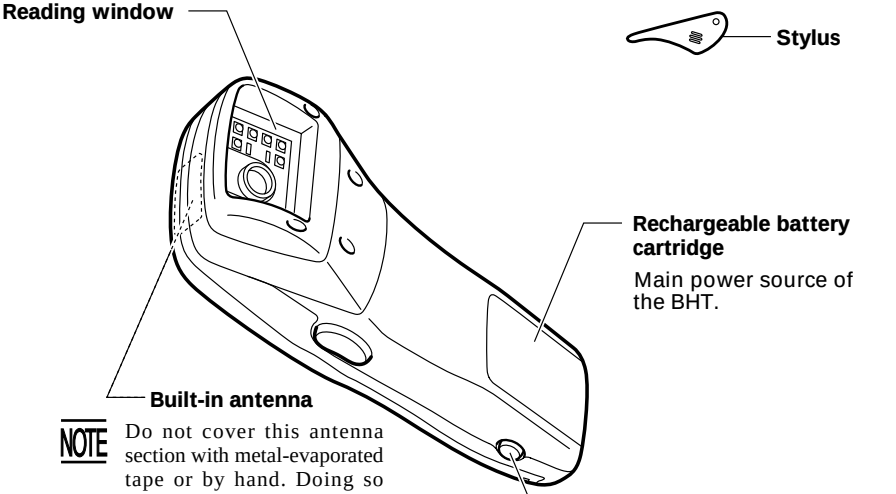
Press this switch to start code reading.

Optical interface port

Used to exchange data/programs with the host computer via its integrated IR port or via the optical communication unit CU-7000.

Connector cover

Inside this cover is the direct-connect interface port.



Reading window

Stylus

Rechargeable battery cartridge

Main power source of the BHT.

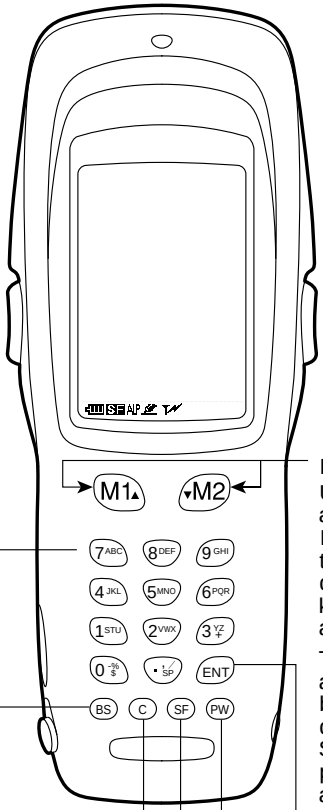
Built-in antenna

NOTE Do not cover this antenna section with metal-evaporated tape or by hand. Doing so may result in communications failures.

Release button

Press this button to remove the battery cartridge.

The functions of the keys may be set by user programs. Shown below is a set of sample functions.



Numerical keys
Used for numerical input.

BS (Backspace) key
Moves back one character.

C (Clear) key
Clears the last inputted data or returns to the original screen.

M1/M2 (Magic) keys
Up- and down-arrow keys are assigned to the M1 and M2 keys by default, respectively. If the SF key is held down, left- and right-arrow keys are assigned to the M1 and M2 keys, respectively.

These keys may be used as an SF key, ENT key, or backlight function on/off key depending upon definition in System Mode or in user programs. They may be also assigned string data in user programs.

ENT (Enter) key
Finalizes the inputted data or operations, and starts the corresponding processing.

PW (Power) key
Turns the BHT on or off.

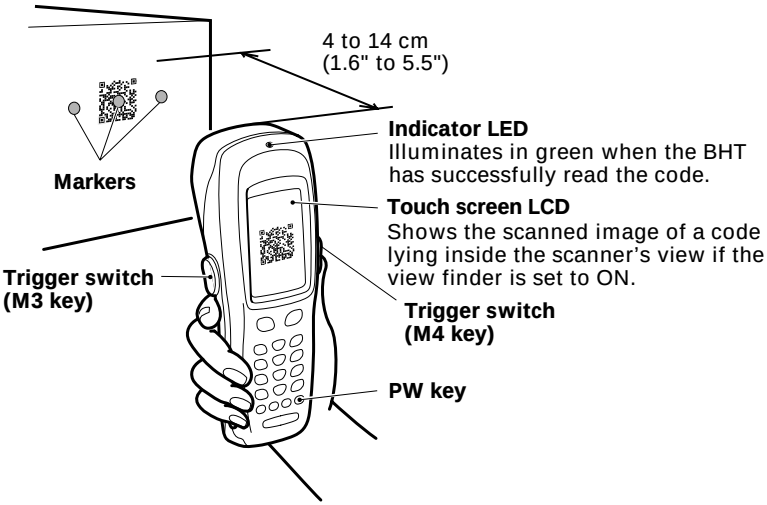
SF (Shift) key
Used in combination with numerical keys for special input procedures.

Reading 2D Codes and Bar Codes

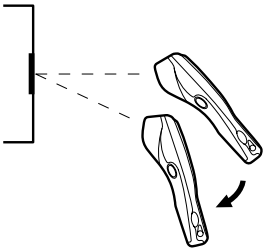
Turn the BHT power on, bring the reading window to the target code, and press the trigger switch. The BHT turns three marker LEDs on to indicate the scanning range and the illumination LED to scan the code. Keep the BHT stationary in a position where the target code lies between the right and left markers and the center marker comes to the center of the target code.

Hold the reading window 4 to 14 cm (1.6 to 5.5 inches) away from codes to be scanned.

When the BHT has read the code successfully, the indicator LED will illuminate in green and the markers will go off.



- The markers show the left-to-right scanning range. When the scanning distance is 8.5 to 9.5 cm (3.3 to 3.7 inches), they indicate almost the center of the up-down scanner's view. If the distance is out of the range, those markers will deviate from the center.
- If the BHT fails to read due to specular effects or other factors, change the scanning angle of the reading window or the distance from codes as shown at right, and try it again. (Specular effects occur when the reflection of the light from the code becomes excessively strong. This can easily happen when the reflecting surface is polished or covered with vinyl.)



- The code reading procedure may differ depending upon the application used, so follow the application's manual.

NOTE

- Before reading 2D codes or bar codes, clean those labels if stained.
- Avoid using the BHT in direct sunlight. The BHT might fail to read correctly.
- To read 2D codes or bar codes on curved surfaces, apply the BHT to the target code so that the code comes to the center of the scanning range indicated by the markers.
- Depending upon the code size or cell pitch, the proper scanning distance from 2D codes or bar codes will differ.

TIP

At the scanning time, the marker LEDs and illumination LED will come on. The illumination LED may not come on where it is bright enough for the BHT to scan. The light intensity of those LEDs will vary depending upon the scanning conditions and variation of their elements.