

HR2280/2180 Cordless Barcode Scanner Quick Guide

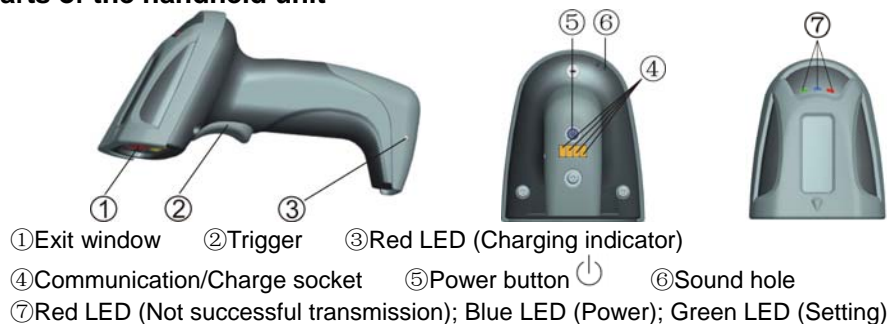
☞ A standard kit contains: a handheld unit, a cradle (with PS2, or USB, or RS232 cable), a 5V AC/DC adaptor (for battery charge) and a CD-ROM (containing software and electrical manuals).

☞ Use dry and soft cloth to clean the handheld unit and the cradle.

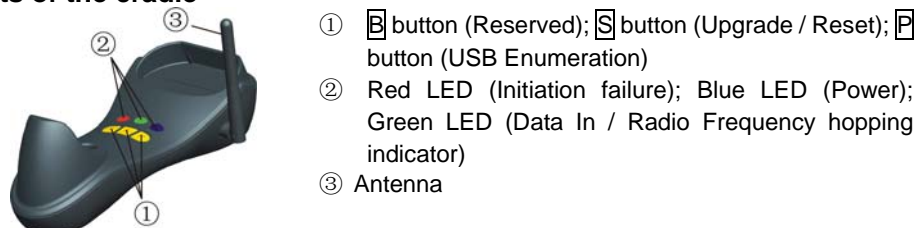
Introduction to LR-433-WPAN protocol

The scanner utilize 430.5~432.0MHz, 433.05~434.79MHz RF wireless communication with LR-433-WPAN wireless communication protocol. LR-433-WPAN protocol first time introduces adaptive frequency hopping technique. With this new protocol, cordless scanner is able to pick up a higher-performance RF channel from a group of channels in terms of consolidated communication. LR-433-WPAN protocol supports up to 128 handheld units (16 handheld-units/cradle x 8 cradle = 128) within the same effective communication range. A circle of response time for one cradle with 16 handheld units is 1 second, while the response time for one cradle with one handheld unit is less than 0.1 second.

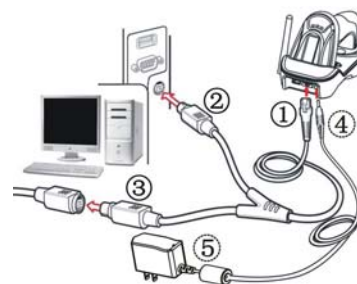
Parts of the handheld unit



Parts of the cradle

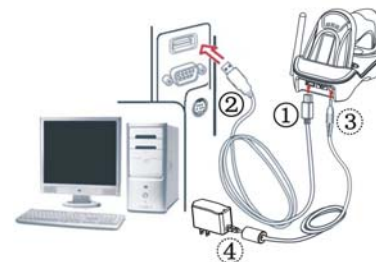


Installation of cradle



With PS2 cable

1. Plug one end of the PS2 cable to the cradle, one end to PS2 port on PC, and one end to the keyboard.
2. Plug the output of the AC/DC adaptor into the power terminal of on the cradle. Plug the AC/DC adaptor provided by the manufacturer into an electrical outlet.



With USB cable

1. Plug one end of the USB cable to the cradle. Plug the other end into the USB port of the computer.
2. Plug the output of the AC/DC adaptor into the power terminal of on the cradle. Plug the AC/DC adaptor provided by the manufacturer into an electrical outlet.



With RS-232 cable

1. Connect the DB9 serial communication cable with the cradle and the COM port of the computer.
2. Plug the output of the AC/DC adaptor into the power terminal of on the cradle. Plug the AC/DC adaptor provided by the manufacturer into an electrical outlet.

Charge battery



1. Please charge the battery before the first time of use. The charge indicator (red LED) on the handheld unit is turned on when the charging is in process. When the charging process completes, the red LED is turned off.
2. Charging time: 8 hours for fully charged.

Power on handheld unit: Press the power button  on handheld unit for two seconds.

Power off handheld unit: Press the power button  on handheld unit for two seconds.

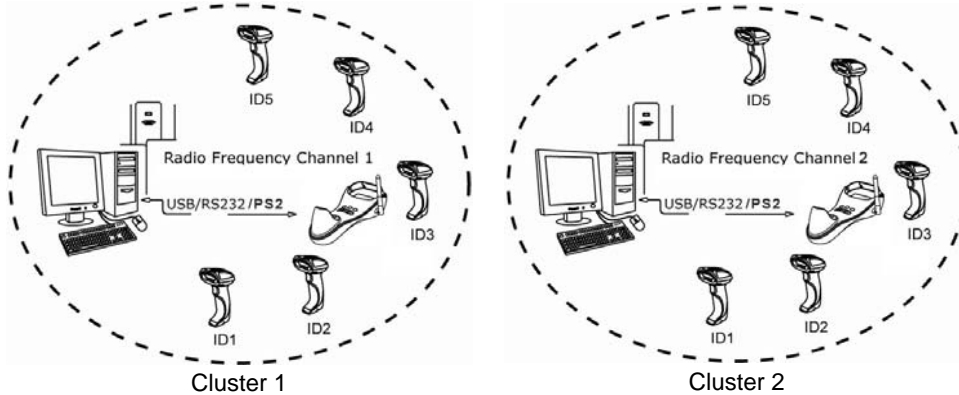
Effective data communication range

To achieve longer communication range, avoids concrete, wall and metallic storage racks between the barcode scanner and the cradle. Obstacle between the barcode scanner and the cradle would decrease the communication severely. Test result is up to 200 meters for free space data communication range under the condition of clear weather, temperature at 27°C, visibility of 5 kilometers.

Visual and audio indication of handheld unit for RF transmission

Successful Transmission	Audio (Beeper)	Red LED on handheld unit
Yes	None	Off
No	Three beeps	On

RF communication as clusters



Default setting of Cradleⁱ



Firmware version of Cradle



Show channel information of Cradleⁱ



Configuration alphanumeric entry barcode



RF communication setting for handheld unit



Option barcode	Option	Alpha. entry
Handheld unit RF channel No. 	01-08	01-08 06*
Handheld unit ID	01-16	01-16

		01*
		END

RF communication setting for cradle



Option barcode	Option	Alpha. entry
Cradle RF channel No. ⁱ 	01-08	01-08 06*
Bind the first handheld unit ID ⁱ 	01-16	01-16 01*
Join a next handheld unit ID ⁱ 	01-16	01-16



Note: 1) The factory default settings are indicated with asterisks (*);

2) The settings indicated with (ⁱ) are valid only when the cradle is in **upgrade ready mode**.

Cradle entering upgrade ready mode

Keep pressing the button on the cradle, until the blue LED is flashing. Then three LEDs will all be turned ON, this indicates the cradle being upgrade ready mode.