

# **2.4G Wireless Barcode Scanner**

User 's manual

# **BROCHURE**



# Notices

1. Please read the user manual carefully before using this product.
2. The working voltage of this barcode scanner is 3.3V, charging voltage 5V.  
Please use our original USB cable to ensure the scanner work properly.

## 3. Copyright and Patent Right

Our company has applied for patent rights, copyrights and software copyrights for this product and its accessories(including hardware, setting software, documentations,appearance,etc. )

4. The company reserves all rights and the company reserves the right to make any changes to the product to improve its reliability, improve its function or design. The company shall not be responsible for any product liability related to or arising from the application or use of any products, circuits, or other applications described herein.

## 5. Package Includes:

Standard Package: : Barcode scanner (1 piece),  
2.4G dongle (1 piece),  
USB cable (1 piece),  
User manual (1 piece).

Optional Accessory: Stand / Cradle

Optional Function: Vibration

6. The contents of this manual are subject to change without prior notice.

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# Introduction

Our company's barcode scanner series are with strong scanning light source and enhanced long distance scanning technology, making it possible for long distance fast scanning capability for damage, dirty and poor quality printed barcodes under various ambient light conditions.

It is durable in use, since it is protected by the industrial safety technique. High volume buzzer is another hint of success scanning besides LED light.

# Features

Wired and wireless dual mode freely switching.

Large capacity storage, safe and reliable.

Stores barcodes more than 50000pcs off-line scanning.

Unique power management system, ultra-long standby time.

Rich symbologies supported.

Adopting imported trigger button, long lifespan, fitting perfectly in your hand for comfortable use.

Ultra low power consumption and standby time setup available.

2.4G transmission distance: up to 100 meters in open areas.

Support upload data and charge the battery via USB cable at the same time.

滚滚长江东逝水

# Application

- \* Applicable to Business (electrical, book, clothing, medicine, cosmetics, etc.), retail industry, postal service, telecommunications industry, warehousing, logistics industry, public security system, customs systems, banking system, medical system.
- \* Multi-national keyboard language

# Parameters

Wireless protocol: 2.4G

Memory: 16Mb

Processor: ARM Cortex 32bits

Supported symbologies: 1D: Codabar, Code 11, Code93, MSI, Code 128, UCC/EAN-128, Code 39, EAN-8, EAN-13, UPC-A, ISBN, Industrial 25, Interleaved 25, Standard 25, 2/5 Matrix,  
2D: QR, DataMatrix, PDF417, Aztec, Hanxin , Micro PDF417(option)

Indicator: Led、 Buzzer、 Vibrator(option)

Battery capacity: 1800mA

Charging voltage/current: 5V/1A

Endurance: 1D ≤ 24H 2D ≤ 16H (5seconds/scan)

Charge time: ≤ 4hours

Standby: >30days

## Working Environment

Working Temperature: 32° F to 104° F/0° C to 40° C

Storage Temperature: -40° F to 140° F/-40° C to 60° C

Humidity: 5% to 95% relative humidity (no condensation)

Ruggedness: Resist about 6 times drops from 1.5m to concrete ground

Ambient Light Immunity: Under normal office and factory ambient lighting conditions, or exposed to the sun won't take any effect to it.

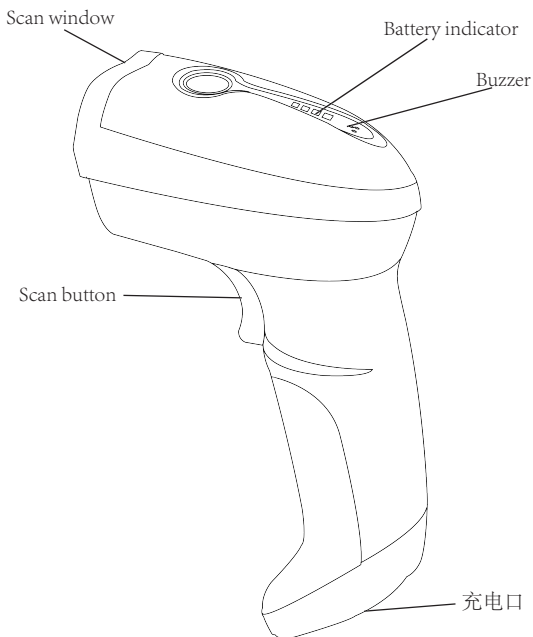
Electrostatic discharge: In line with 15KV air discharge and 8KV contact discharge requirements

## Related Regulations

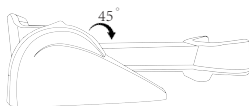
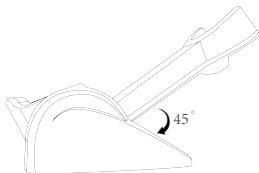
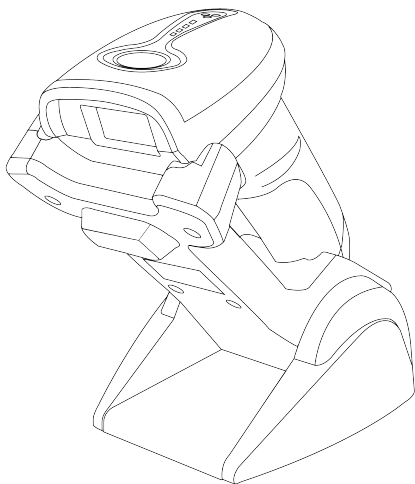
Electrical safety: In accordance with UL1950、CSA C22.2 No.950、EN60950/IEC950 EMI/RFI:FCC Part 15 Class B、European Union EMC Directive、Taiwan EMC、

Environment Terms: In accordance with RoHS directive 2002/95/EEC

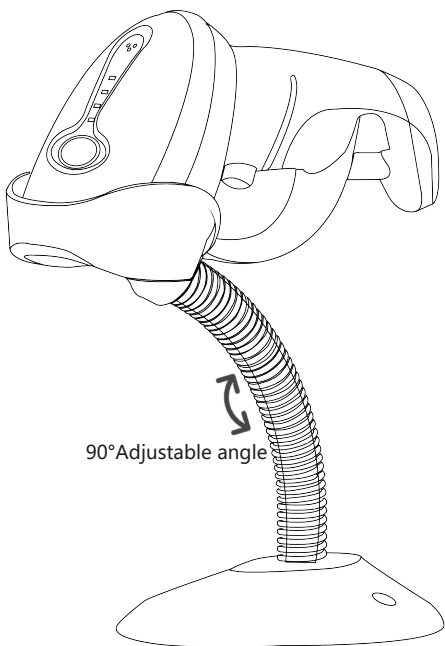
### Appearance



①Cradle (Optional)



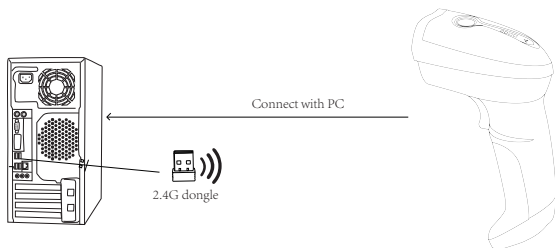
### ②Stand (Optional)



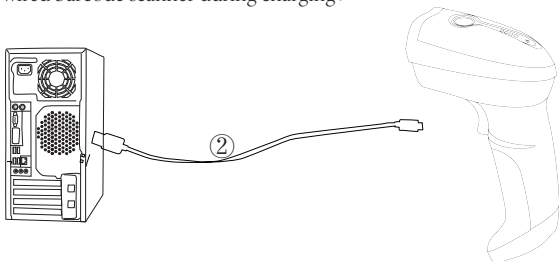
# Usage Methods

Barcode Scanner without stand/cradle:

A: The scanner can be connect with all kinds of Computers by 2.4G wireless conenction, support XP、Win7、Win8、Win10 system as well。 (Pls refer to page 13)



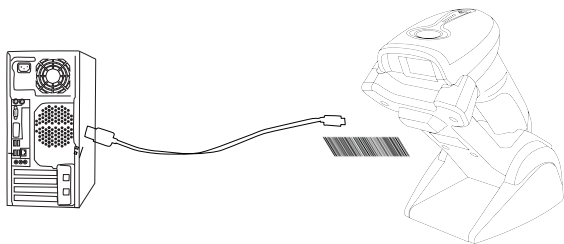
C: When the scanner connect PC with USB cable, It also can be used as a wired barcode scanner during charging。



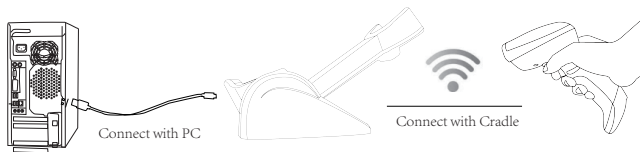
### (Optional) ① Cradle with built-in 2.4GHz Dongle

Pls connect scanner with cradle first. (Pls refer to page 13)

1. When you put the scanner on the cradle, the scan mode is going to be Autosense, and scanner get charged as well.



2. When the scanner is used alone, the scan mode is manual

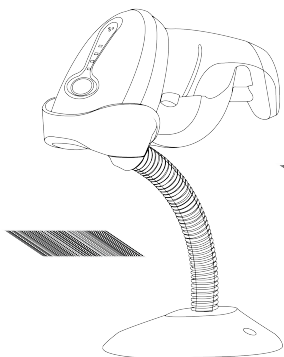


3. Wireless 2.4GHz long-distance transmission. Indoor transmission distance can reach 30 meters. outdoor transmission can reach 100 meters in open area.

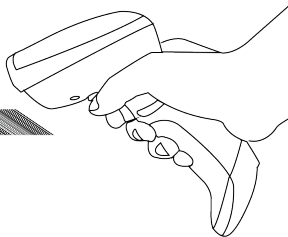
## (Optional) ② Stand

Usage:

1. When the scanner equipped with stand, the scan mode is Autosense
2. When the scanner is used alone, the scan mode is manual



Autosense Mode



Manual Mode

## Initialization Settings&Version Information

A: You can scan the setting code “Initialization Settings” to make the scanner back to factory default settings

B: If you have after-sales problems and need to contact our customer service staff, please provide version information by scanning setting code “Version Information”



Initialization Settings



Version Information

## Caps Lock Switch



All Lowercase



All Uppercase



Do not convert case



Case Interchange

## 2.4G Wireless Pairing Method:

A: Scan the setting code of Dongle.



B: Scan the setting code Forced Pairing with Dongle, The scanner will enter pairing state, and the blue light on the left flashes quickly.



C: Insert Dongle into the device, after a beep prompt sound, the scanner is paired successfully, and the blue light on the right is always on.

Notes: When the scanner is entered 2.4G pairing status and it does not get connected with your device within 1 minutes, it will beep twice lowly and longly. You need to repeat above-mentioned 3 steps to make it connect with you device. (When the scanner is in the 2.4G pairing status, double-click can make it exit the pairing mode).

## Sound/Vibration Setting



Sound OFF



Sound ON



Vibration OFF(optional)



Vibration ON(optional)

## Sleep Time Setting



1 min



5 min



10 min



30 min



Never Sleep



Sleep Immediately

## Ending Character Setting



Add CR(Carriage Return)



Add LF(Linefeed)



Add CR+LF



Cancel CR+LF



Add TAB

# Keyboard Language Setting



English(USA)



German



French



Spanish



Italian



Japanese



International Universal Keyboard



Belgian



Portuguese



English(UK)



Portuguese(Brazil)



French(Switzerland)



Russian



Czech



French(Canada)



Hungarian



Polish



Sweden / Finland



Spanish(Mexico)



Argentine(Latin America)



Norwegian



German(Switzerland)

# Transmission Speed Setting

Choosing the transmission speed according to the receiving speed of the device



Fast



Middle



Slow



Super Slow

## Working Modes

Under “Normal Mode”, the data of the code you scanned will be transferred to your device via bluetooth, 2.4G or USB. A short and low beep shows the data is transferred successfully. If not, the scanner will beep 3 times shortly and lowly.

Under “Normal Mode”, if scans failure, the data you just scanned will be lost.



Normal Mode

Under “Storage Mode”, the data of the code you just scanned will be stored in the scanner. And scanner beeps once shortly and slowly after each scanning.

Scanner will beep 3 times after scanning a code if its storage space is full.



Storage Mode

You can check the storage data amount by scanning following setting code



Storage Data Amount

Scanning following setting code to upload the data you have scanned to your device via bluetooth, 2.4G wireless or USB.

Notes: Making sure that scanner is got connected with your device.  
After uploading data, the data which have been stored in the scanner will not be deleted from the scanner



Upload Data

Scanning following setting code to clear all the data which is stored in the scanner. All data will be deleted after scanning setting code "Clear Data", so please confirm that you have uploaded those data to your device if you need them.



Clear Data

## Hide Pre-characters/Post-characters

1st: Scanning following setting code “Hide Pre-characters” or “Hide Post-characters”



Hide Pre-characters



Hide Post-characters

2nd: Choosing how many characters you need to hide.



1



2



3



4



5



6



7



8



9



11



13



10



12



14



16



15

Notes: If you need to cancel hiding characters setting, you can scan following setting code



Cancel Hiding Pre-characters



Cancel Hiding Post-characters

# Add Time As Prefix or Suffix

A.Scanning setting code “Add Time as Prefix” ,then there is scanning time in front of barcode data.



Add Time as Prefix

B.Scanning setting code “Add Time as Suffix” , then there is scanning time behind barcode data.



Add Time as Suffix

C.If you do not need scanning time as prefix or suffix,you can scan following setting code “Cancel Setting” .



Cancel Setting

# Update Time

## 1. Run the Web as below:

|                                                                                                                      |                    |
|----------------------------------------------------------------------------------------------------------------------|--------------------|
|  jquery.min                         | 2020-06-03 3:04 PM |
|  jquery.qrcode.min                  | 2020-06-03 3:04 PM |
|  JsBarcode.all.min                  | 2020-06-03 3:04 PM |
|  Scanner QR and BarCode Time Adjust | 2020-06-03 3:12 PM |

## 2. Scan Below codes to Calibrate Time of Scanner.



Notes: “Scanner Time Setting Offline Web Version” program can be downloaded in website:

<https://symcode.cn/public/upload/Scanner%20Time%20Setting%20Offline%20Web%20Version.rar>

or scan QR-code below



## Prefix/Suffix Setting

The setting prefix and suffix is divided into two parts, displayable characters and controlled characters

1st Part: Displayable characters

Step1: Scanning following setting code “Add Prefix” or “Add Suffix”



Add Prefix



Add Suffix

Step2: Finding the character which you need to add as prefix or suffix in appendix B, and scanning the barcode corresponding to the character.

## 2nd Part: Controlled Characters

Step1: Finding the character which you need to add as prefix or suffix in appendix A, and scanning the barcode corresponding to the character set.



Character Set 0



Character Set 1



Character Set 2



Character Set 4



Character Set 3

Step2: Scanning following setting code “Add Prefix” or “Add Suffix”



Add Prefix



Add Suffix

Step3: Finding the character which you need to add as prefix or suffix in appendix A, and scanning the barcode corresponding to the character.

Notes: Scanning following setting code if you need to cancel prefix and suffix setting



Cancel Prefix Setting



Cancel Suffix Setting

# 2.4G Wireless COM-Port Mode Setting

Step1: Scanning setting code “COM-Port Mode”



COM-Port Mode

Step2: Scanning setting code “Enter Pairing Mode”



Enter Pairing Mode

Step3: Insert the 2.4G wireless receiver into USB port in your device. One beep shows that scanner and receiver connected. And it will generate a COM port in your device.

Notes: When the scanner is entered 2.4G COM-Port Mode pairing status and it does not get connected with your device within 1 minutes, it will beep twice lowly and longly. You need to repeat above-mentioned 3 steps to make it connect with your device. (When the scanner is in the 2.4G COM-Port pairing status, double-click can make it exit the pairing mode).

Once you scan 2.4G COM mode, the scanner is under virtual COM port even it is connected by USB cable.

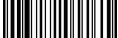
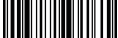
| Decimal | ASCII | Character Set 0 | Character Set 1 | Character Set 2 | Character Set 3 | Character Set 4 | Setting Code                                                                         |
|---------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------------------------------------------------------------------------|
| 1       | SOH   | NULL            | Home            | Ctrl+A          | Alt+001         | CR              |    |
| 2       | STX   | Ctrl+B          | End             | Ctrl+B          | Alt+002         | Cap Lock        |    |
| 3       | ETX   | Ctrl+C          | Up Arrow        | Ctrl+C          | Alt+003         | Right Arrow     |    |
| 4       | EOT   | NULL            | Down Arrow      | Ctrl+D          | Alt+004         | Up Arrow        |    |
| 5       | ENQ   | NULL            | Left Arrow      | Ctrl+E          | Alt+005         | NULL            |    |
| 6       | ACK   | NULL            | Right Arrow     | Ctrl+F          | Alt+006         | NULL            |    |
| 7       | BEL   | NULL            | Shift+Tab       | Ctrl+G          | Alt+007         | Enter           |    |
| 8       | BS    | Back Space      | Back Space      | Back Space      | Alt+008         | Left Arrow      |    |
| 9       | HT    | Tab             | Tab             | Tab             | Alt+009         | Tab             |  |
| 10      | LF    | Enter           | Enter           | Ctrl+P          | Alt+010         | Down Arrow      |  |
| 11      | VT    | NULL            | NULL            | Ctrl+Q          | Alt+011         | Tab             |  |
| 12      | FF    | NULL            | NULL            | Ctrl+R          | Alt+012         | delete          |  |
| 13      | CR    | Enter           | Enter           | Enter           | Alt+013         | Enter           |  |

## 2.4G Wireless Barcode Scanner

| Decimal | ASCII | Character Set 0 | Character Set 1 | Character Set 2 | Character Set 3 | Character Set 4 | Setting Code                                                                         |
|---------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------------------------------------------------------------------------|
| 14      | S0    | F1              | Page Up         | Ctrl+N          | Alt+014         | Insert          |    |
| 15      | S1    | F2              | Page Down       | Ctrl+O          | Alt+015         | Esc             |    |
| 16      | DLE   | F3              | F11             | Ctrl+P          | Alt+016         | F11             |    |
| 17      | DC1   | F4              | NULL            | Ctrl+Q          | Alt+017         | Home            |    |
| 18      | DC2   | F5              | NULL            | Ctrl+R          | Alt+018         | Print Screen    |    |
| 19      | DC3   | F6              | NULL            | Ctrl+S          | Alt+019         | Back Space      |    |
| 20      | DC4   | F7              | NULL            | Ctrl+T          | Alt+020         | Shift tab       |    |
| 21      | NAK   | F8              | F12             | Ctrl+U          | Alt+021         | F12             |    |
| 22      | SYN   | F9              | F1              | Ctrl+V          | Alt+022         | F1              |   |
| 23      | TB    | F10             | F2              | Ctrl+W          | Alt+023         | F2              |  |
| 24      | CAN   | F11             | F3              | Ctrl+X          | Alt+024         | F3              |  |
| 25      | EM    | F12             | F4              | Ctrl+Y          | Alt+025         | F4              |  |
| 26      | SUB   | NULL            | F5              | Ctrl+Z          | Alt+026         | F5              |  |
| 27      | Esc   | Esc             | F6              | Ctrl+[          | Alt+027         | F6              |  |

[illegible]

# Appendix B: Displayable Characters

| Decimal | ASCII | Setting Code                                                                        | Decimal | ASCII | Setting Code                                                                        |
|---------|-------|-------------------------------------------------------------------------------------|---------|-------|-------------------------------------------------------------------------------------|
| 32      | 空格    |    | 45      | -     |    |
| 33      | !     |    | 46      | .     |    |
| 34      | "     |    | 47      | /     |    |
| 35      | #     |    | 48      | 0     |    |
| 36      | \$    |    | 49      | 1     |    |
| 37      | %     |    | 50      | 2     |    |
| 38      | &     |    | 51      | 3     |    |
| 39      | '     |   | 52      | 4     |   |
| 40      | (     |  | 53      | 5     |  |
| 41      | )     |  | 54      | 6     |  |
| 42      | *     |  | 55      | 7     |  |
| 43      | +     |  | 56      | 8     |  |
| 44      | ,     |  | 57      | 9     |  |

| Decimal | ASCII | Setting Code                                                                        | Decimal | ASCII | Setting Code                                                                        |
|---------|-------|-------------------------------------------------------------------------------------|---------|-------|-------------------------------------------------------------------------------------|
| 58      | :     |    | 72      | H     |    |
| 59      | ;     |    | 73      | I     |    |
| 60      | <     |    | 74      | J     |    |
| 61      | =     |    | 75      | K     |    |
| 62      | >     |    | 76      | L     |    |
| 63      | ?     |    | 77      | M     |    |
| 64      | @     |    | 78      | N     |    |
| 65      | A     |    | 79      | O     |    |
| 66      | B     |   | 80      | P     |   |
| 67      | C     |  | 81      | Q     |  |
| 68      | D     |  | 82      | R     |  |
| 69      | E     |  | 83      | S     |  |
| 70      | F     |  | 84      | T     |  |
| 71      | G     |  | 85      | U     |  |

| Decimal | ASCII | Setting Code                                                                        |
|---------|-------|-------------------------------------------------------------------------------------|
| 86      | V     |    |
| 87      | W     |    |
| 88      | X     |    |
| 89      | Y     |    |
| 90      | Z     |    |
| 91      | [     |    |
| 92      | \     |    |
| 93      | ]     |    |
| 94      | ^     |   |
| 95      | _     |  |
| 96      | `     |  |
| 97      | a     |  |
| 98      | b     |  |
| 99      | c     |  |

| Decimal | ASCII | Setting Code                                                                        |
|---------|-------|-------------------------------------------------------------------------------------|
| 100     | d     |    |
| 101     | e     |    |
| 102     | f     |    |
| 103     | g     |    |
| 104     | h     |    |
| 105     | i     |    |
| 106     | j     |    |
| 107     | k     |    |
| 108     | l     |   |
| 109     | m     |  |
| 110     | n     |  |
| 111     | o     |  |
| 112     | p     |  |
| 113     | q     |  |

| Decimal | ASCII | Setting Code |
|---------|-------|--------------|
|---------|-------|--------------|

|     |     |                                                                                     |
|-----|-----|-------------------------------------------------------------------------------------|
| 114 | r   |    |
| 115 | s   |    |
| 116 | t   |    |
| 117 | u   |    |
| 118 | v   |    |
| 119 | w   |    |
| 120 | x   |    |
| 121 | y   |    |
| 122 | z   |    |
| 123 | {   |   |
| 124 |     |  |
| 125 | }   |  |
| 126 | ~   |  |
| 127 | DEL |  |

| Decimal | ASCII | Setting Code |
|---------|-------|--------------|
|---------|-------|--------------|

[illegible]

# FAQ (Frequently Asked Questions)

- ▶ What should I do if the scanner can not pair with my bluetooth device?
  - A.Making sure the scanner is in the pairing state under the required Bluetooth protocol
  - B.If the devices has connected successfully with other barcode scanner via bluetooth,or other devices.Please delete the bluetooth connection record before connecting
  - C.The wireless module has been damaged
- ▶ Why can not the scanner read some codes?
  - A.The scan engine does not support that code type or disabled defaultly  
You can contact with us to enable it.
- ▶ Why can not the scanner transfer data to my device when they are connected?
  - A.Please confirm if the scanner is under“Storage Mode”,you need to turn it to“Normal Mode”or scanning setting code“Upload Data” to transfer data to your device.
  - B.The wireless module may has been damaged.
- ▶ Why does the data which show in my device is not the same as code?
  - A.Please confirm that if the keyboard language of the scanner is the same as your devices’ .
- ▶ Why can not the scanner charge?
  - A.Please choose the correct charge head and charge cable.
  - B.Charging circuit or battery may has been damaged.
- ▶ How to make more settings?
  - Please contact with us for more settings.

## Buzzer description

| Buzzer Proformancc                       | Introduction                              |
|------------------------------------------|-------------------------------------------|
| one/long beep<br>low to high frequency   | power on                                  |
| one/long beep<br>high to low frequency   | power off                                 |
| one/short beep<br>low frequency          | read a code under normal mode             |
| one/short beep<br>low to high frequency  | read a code under storage mode            |
| one/short beep<br>high to high frequency | read a setting mode                       |
| three/short beeps<br>low frequency       | transfer failure or storage space is full |

## LED Light Introduction

| Indicator light color             | Explanation                         |
|-----------------------------------|-------------------------------------|
| Blue light flashing               | Enter 2.4G mode pairing mode        |
| Red light always on               | Charge Full Red Light Off           |
| Flashing red light                | No battery detected                 |
| Blue light on but off immediately | Identify and emit short drip sounds |





Battery Display

#### FCC Warning Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement.