Uer's Manual

BS03-B
Bluetooth Barcode Scanner

Introduction:

BS03-B Bluetooth scanner is a handheld barcode recognition device based on the international standard Bluetooth protocol (HID and SPP). It is used mainly with portable devices such as mobile phone, tablet and PC. Compared with the traditional corded equipment, BS03-B is more convenient, fast and applicable.

Features:

1. Common 1D barcode recognition;
2. Standard Bluetooth 2.1 protocol supported (HID and SPP);
3. Transmission distance reaches 30 meters in open area;
4. Suitable for Bluetooth protocol (HID and SPP) supported data terminals and handheld devices;
5. Detachable large capacity polymer lithium battery;
6. Barcode reading stops automatically when out of signal or being disconnected to avoid misoperation.
7. Ergonomic design.

Safety Cautions :

Please read the following concise rules. Violation of these rules may cause danger or infringement of the law.

Boot in Safety: Don't switch on the handheld when wireless device is forbidden or is to cause interference and danger.

Laser Safety: class 2 laser, maximum 1.0mW. Please do not stare at the laser beam or aim at others' eyes.

Maintenance: Please don't install on the device replacement parts or perform any unauthorized modification. Just send the device back to factory to repair for safety.

Accessories and battery: use only approved accessories and battery. Don't connect to inconsistent products.

Connection: If in need of connecting to other devices, please obtain necessary safety instructions from their manual or manufacturer. Never connect to an inconsistent device.

After-sale Service and Warranty

The Bluetooth Scanner is warranted for a period of 12 months from the delivery date and the accessories 3 months. For maintenance, please send the scanner back to factory or to appointed partners.

Limited Warranty:

Warranty terms do not apply to damage caused by the following conditions:

Incorrect or inappropriate repair of the scanner;

Unauthorized connection to software or interface;

Unauthorized modification or misoperation;

Model/serial number has been changed, deleted or illegible;

Accidental damage including but not limited to water, fire, lightning, abuse or neglect.

Chapter I   Inspection & Installation

1.1 Packing List

Ensure you have received all the following accessories in addition to the scanner. If any missing, please contact the nearest dealer or the manufacturer.

| Item	Piece(s)	Description
Battery	1	1500mA Polymer Lithium-ion
Charger	1	INPUT:100-240AC,50/60Hz,0.3A,OUTPUT:5V-1A DC
Quality Certificate	1	Certification of Conformity

1.2 Cleaning

Wipe the scanner lightly using a soft damp cloth. Pay much attention to the scan window, otherwise it may cause barcode identification delay.

1.3 Installation and Structure Diagram

First insert the battery into the scanner body, then ram the scanner base home as shown at the arrow.

Be careful not to damage the battery contacts

LED lamp

scan window

buzzer

trigger

charging port
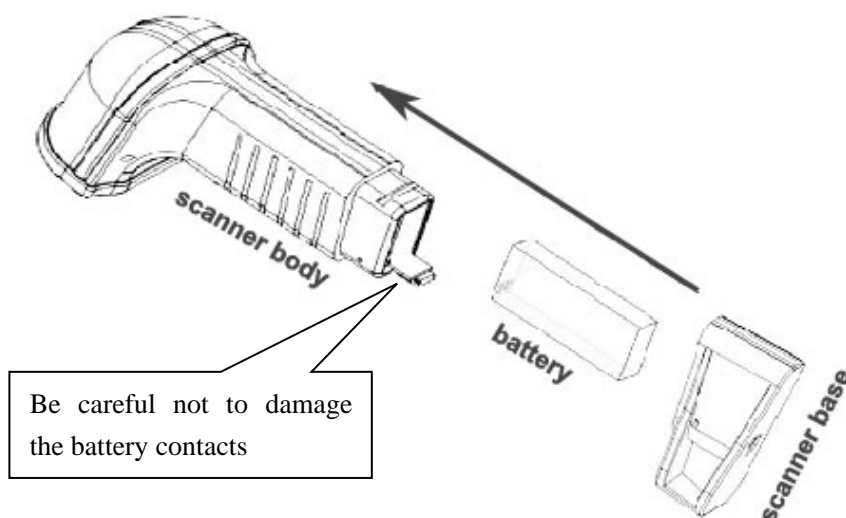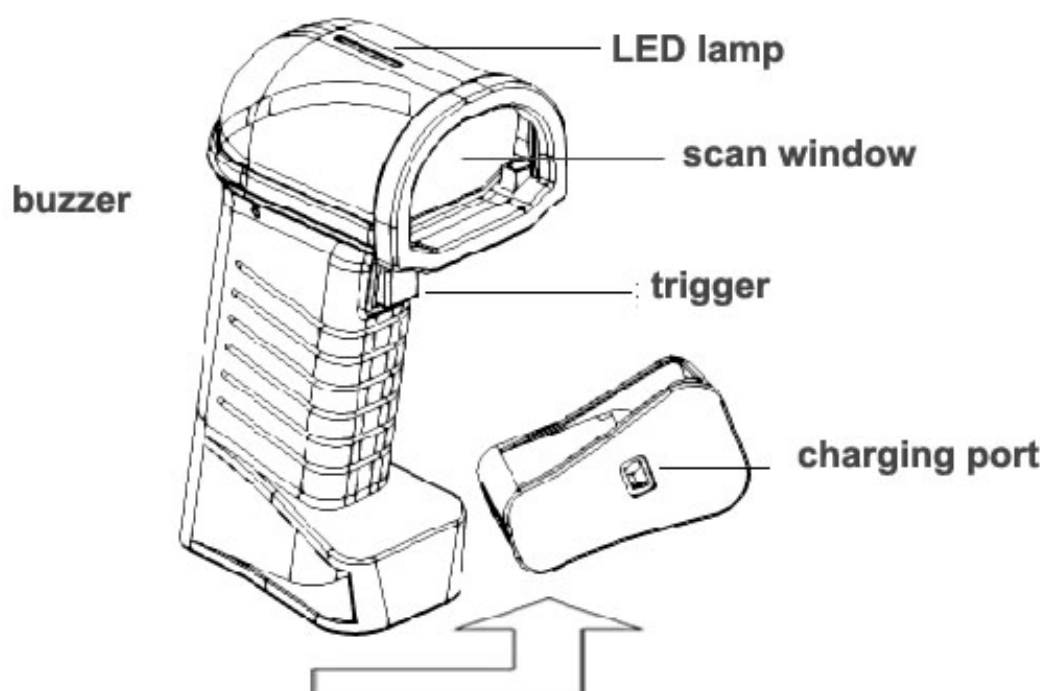
Chapter II   Quick Guide

2.1 Connect with Bluetooth devices (HID and SIP supported)

1) Make sure that the device supports HID and SIP protocol;

2) With the scanner off, press and hold the trigger for 5 seconds till two beep tones sounded to enter the configuration status.

3）Scan the "DEL ALL CONNECTED MEMORY DATA" barcode to clean up the old connection records. This helps in making faster connection with new terminal devices;

DEL ALL CONNECTED MEMORY DATA

4) Scan the barcode below to specify a Bluetooth protocol for the scanner and the terminal device. If the Bluetooth standard of the terminal device is less than 2.1, then only the SPP protocol could be used. The pairing password is "0000";
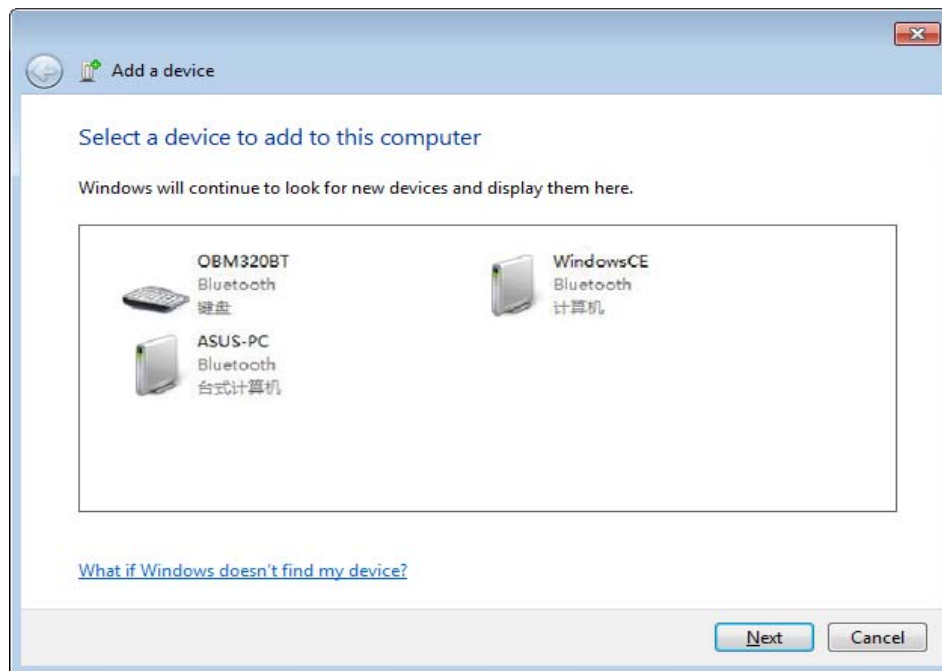

HID COMMUNICATION MODE   SPP COMMUNICATION MODE

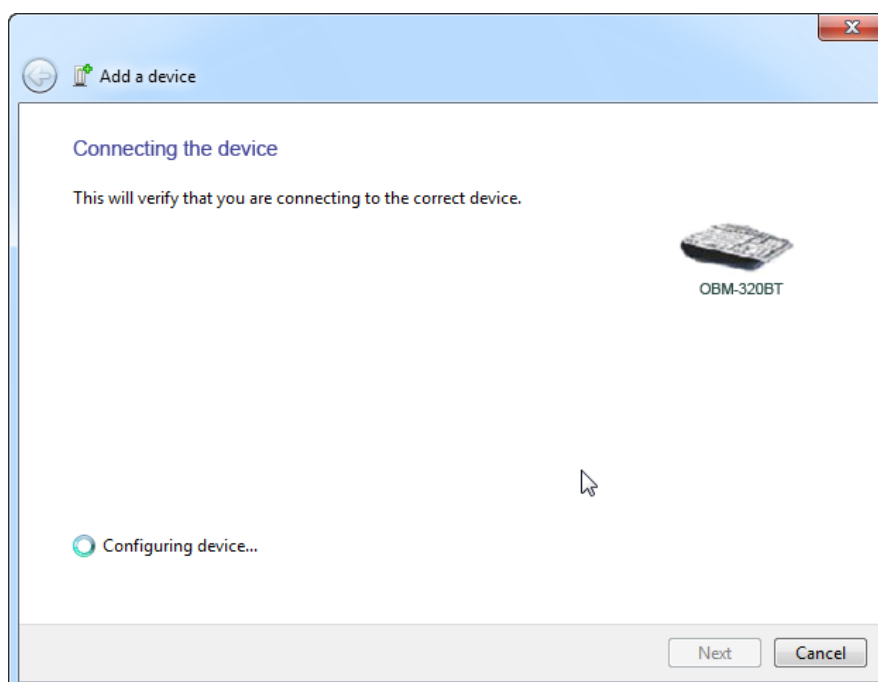5) Scan the "Save Settings" barcode to reboot the scanner and start pairing;

Save Settings

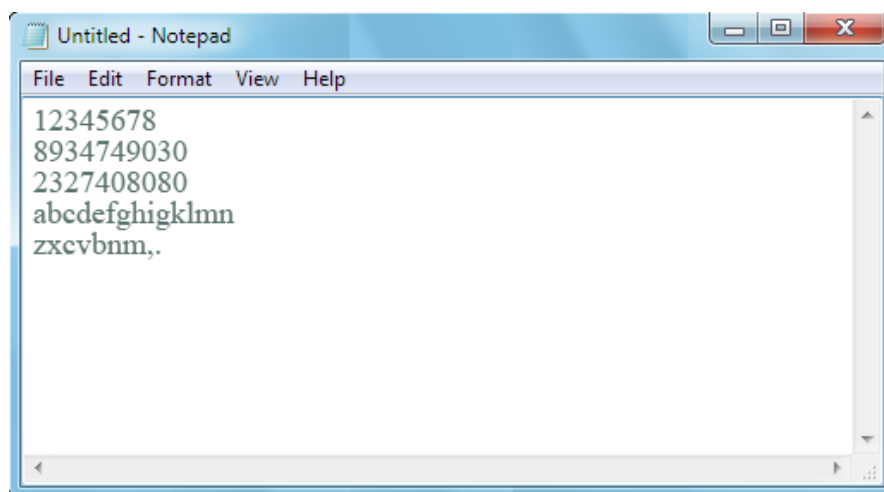6）Open the Bluetooth communication of the terminal device, select BS03-BT in the Add New Device Wizard;

7）Configuring device;

8）Device added successfully;

9) Open a text processor (eg. Notepad, WordPad, word) on the terminal device and start reading barcode with the Bluetooth scanner. Data scanned is shown in a simulated keyboard input mode.


Note: if SPP protocol is specified, a software other than the common text processor (eg. Notepad, WordPad, word) is asked to acquire data through the serial port. Please consult your software vendor, computer technician or the device manufacturer for such configuration.

2.2 Bootup

Short press the trigger, the scanner boots up and starts self test for 1 second. When a beep tone sounds, the scanner is ready to work and the LED lamp turns red.

2.3 Scanning Operation

1) One press on the trigger emits one laser beam. Direct the beam on the barcode to get a decode as the figure shown bellow:
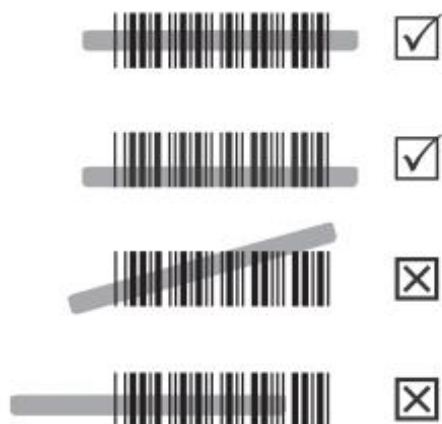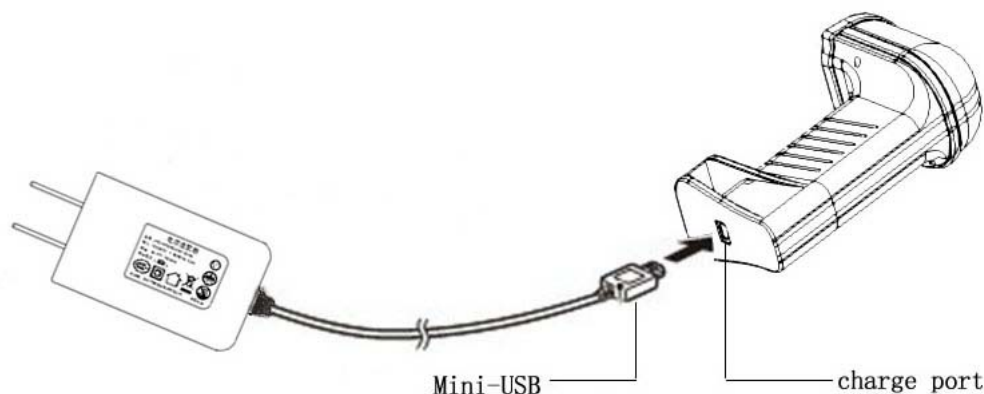

2.4 Shut-down

1)   Hold the trigger for 5 seconds and release when a beep tone sounds.

2)   Put aside the scanner for 20 minutes, it may enter standby mode and shut-down automatically.

2.5 Charging

The LED lamp lights green when charging or connecting to an external power supply.

Mini-USB   charge port

Charper III   Technical Parameters

3.1 Physical

1) Dimension: 140mm(H)*78mm(D)*58(W)
2) Weight：212g (with battery)
3) Battery：1500mAh Polymer Lithium-ion Battery
4) Charging Time：4.5 hours

3.2 Performance

1) Light Source: 650nm Laser
2) Scanning Angle: elevation±65°，inclination±60°
3) Resolution: 0.1mm（Min.）
4) Scan Rate: 50 scans/sec.
5) Supported Barcode: EAN-8，EAN-13，UPC-A，UPC-E，Code 39，Code 93，Code 128，EAN128，Codabar，Industrial 2 of 5，Interleave 2 of 5，Matrix 2 of 5，MSI …
6) Standby current: 60mAh
7) Working current:120mAh，480mW

3.3 Environment

1）Working Temperature：-4℉ to 122℉, -20℃ to 50℃
2）Storage Temperature：-40℉ to 158℉, -40℃ to 70℃
3）Working Humidity： 5% to 95%, non-condensing
4）Impact test: 30 times drop from 1.2 m
5）Lumination：86000 lux
6）Anti static: 15kV air discharge, 8kV contact discharge

3.4 Bluetooth Standard

1） Bluetooth V2.1 Standard
2） HID and SPP Protocol
3) ClassII Power Grade, 100mW Power consumption
4) Frequency: 2.402 to 2.480 GHz
5) Transmission Rate: 2Mkbps

6) Transmission Distance：300M (open area)

3.5 Charging

1) Input: AC 100-240V, 50/60Hz, 0.3A
2) Output: DC5V, 1000mA
3) Interface: Min-USB
4) Certification: 3C

3.6 Safety

1) Electrical equipment safety: UL60950-1,CSA C22.2 No. 60950-1, EN 60950-1 / IEC 60950-1

2) Laser safety：EN 60825-1,IEC 60825-1,21CFR1040.10, CDRH Class II, IEC Class 2

3) Electromagnetic compatibility：FCC Part 15 Class B, ICES-003 Class B, EN 55022, EN 55024, AS/NZS4268:2008, Japan VCCI

4) Environmental Safety：Compliant with RoHS directive 2002/95/EEC

Charpter IV   Barcode Setting

RESET CONFIGURATION TO DEFAULTS   OUTPUT MODE – SERIAL

GOOD READ BEEP TONE – NONE   GOOD RAED BEEP TONE – RESET

LASER MODE – SINGLE SCAN   LASER MODE – PULSE

LASER MODE – CONTINUOUS SCAN   TERMINATION CHAR – CR

TERMINATION CHAR – LF   TERMINATION CHAR – DISABLE

TERMINATION CHAR – CR+ LF   DEL ALL CONNECTED MEMORY DATA

HID COMMUNICATION MODE   SPP COMMUNICATION MODE