



Fujian Newland Auto-ID Tech Co., Ltd.



NLS-BS80
Barcode Scanner
User Guide

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Please read through the manual carefully before using the product and operate it according to the manual. It is advised that you should keep this manual for future reference.

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<http://www.nlscan.com>

NOTICE

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.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be located or operating in conjunction with any other antenna or transmitter.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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Preface

Introduction

This manual provides detailed instructions for setting up and using the NLS-BS80 barcode scanner (hereinafter referred to as “**the BS80**” or “**the scanner**”).

Chapter Descriptions

- ✧ *Chapter 1, Getting Started* : This chapter provides information on getting the scanner up and running for the first time.
- ✧ *Chapter 2, System Settings* : This chapter describes the barcode programming procedure and shows you how to configure system parameters.
- ✧ *Chapter 3, Symbologies* : This chapter lists all compatible symbologies and describes how to configure the relevant parameters.
- ✧ *Appendix* : This chapter offers factory defaults table and a bunch of frequently used programming barcodes.

Safety Instructions

Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions on proper handling in this manual, we assume no liability for any resulting personal injury or damage to property.

- ✧ Don't put the scanner in places with excessively high temperatures, such as exposure to direct sunlight.
- ✧ Don't use the scanner in extremely humid area or drastic temperature change.
- ✧ The rechargeable battery is permanently built into the scanner and cannot be replaced.
- ✧ Never damage the rechargeable battery. Damaging the casing of the rechargeable battery might cause an explosion or a fire!

Chapter 1 Getting Started

Introduction

The BS80 is a wireless pocket barcode scanner equipped with 1D or 2D scan engine to meet different needs. It is a great space-saver for busy or limited workspaces. It also supports iOS, Android, and Windows devices through Bluetooth HID or SPP communication.

An illustrated introduction to the BS80 is included in this chapter. If you have the scanner at hand, make good use of it to develop a better understanding of this manual. This chapter is written for normal users, maintenance staff and software developers.

Unpacking

Open the package and take out the scanner and its accessories. Check to make sure everything on the packing list is present and intact. If any contents are damaged or missing, please keep the original package and contact your dealer immediately for after-sale service.

BS80 Scanner



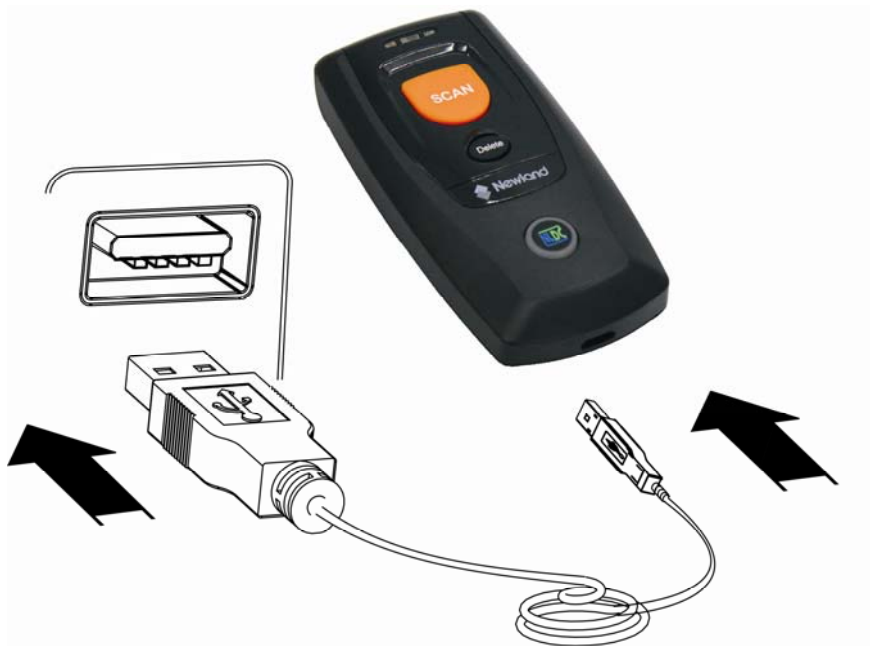
1	Charging/Battery LED	2	Good Read LED
3	Data LED	4	Scan/Power Button
5	Delete/Reset Button	6	Function Button/Function LED
7	Micro USB Port	8	Product Label
9	Scan Window: Please remove the protective sticker from the window before use.		

Functions of the Buttons

Scan/Power Button
*Press the button to scan barcode when the scanner is on. *Hold down the button for 3 seconds to power it on when the scanner is off.
Delete/Reset Button
*Press the button to remove the corresponding data from the FLASH memory in the USB mode before scanning the barcode to be deleted. *Hold down the button for 7 seconds to reset it when the scanner is on.
Function Button
*Press the button to turn on the HID keyboard of the connected iOS device in the Wireless mode. *Hold down the button for 5 seconds to unpair paired Bluetooth device from the scanner in the Wireless mode. *Hold down the button for 3 seconds to start data transmission via USB in the USB mode (Make sure that the scanner is connected to PC first.)
Scan/Power Button + Function Button
*Hold down the two buttons at the same time for 3 seconds to toggle between the Wireless mode and USB mode when the scanner is on.
Delete/Reset Button + Function Button
*Hold down the two buttons at the same time for 7 seconds to upgrade the firmware via USB after clicking the "Start" button of the firmware upgrade utility on PC that the scanner is connected to.
Scan/Power Button + Delete/Reset Button
*Press the two buttons at the same time to check the battery level with the Charging/Battery LED when the scanner is on.

Charging the Battery

Charge the scanner by connecting it to a host device with USB cable, as shown below.



Note: Low battery may result in failure or misoperation of the scanner. Before your first use, charge the battery for 3-4 hours.

Connecting the BS80 to Smartphone/Tablet

1. Make sure your device has HID or SPP profile.
2. Turn off the Power-Saving mode of your smartphone/tablet first. If the red Function LED on the scanner illuminates, hold down the Scan/Power button and Function button at the same time for 3 seconds or scan the barcode below to switch to the Wireless mode.



Wireless Mode (Default)

3. Scan the appropriate barcode below to choose HID or SPP profile before connecting to smartphone/tablet. If you don't know what profile your device is, please try HID profile first, then SPP profile.



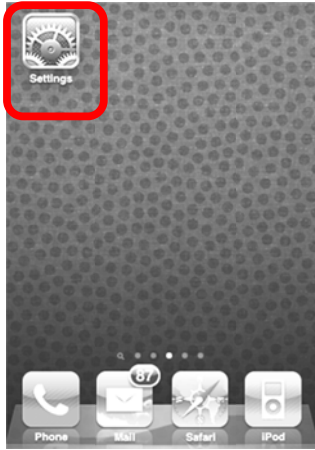
HID (Default)



SPP

4. Complete the following connection procedure (example: pairing with iPhone). If the BS80 does not appear in the search results in step (5), you might need to delete existing pairing information on the scanner by holding down the Function button on the scanner for 5 seconds (see **Functions of the Buttons** in this chapter) or by scanning the **Delete Bluetooth Pairing** barcode (see **Delete Bluetooth Pairing** in Chapter 2).

(1) Click "Settings".



(2) Click "General".



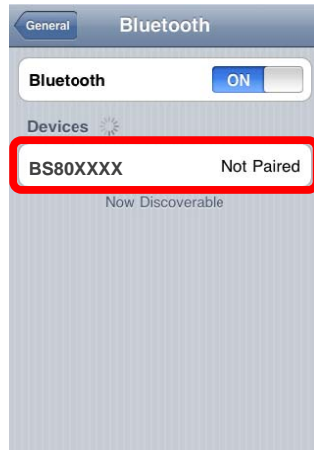
(3) Click "Bluetooth".



(4) Turn it on and search the devices.



(5) Select "BS80XXXX" to connect.



(6) The "Connected" message means the connection is OK.



5. After the connection is completed, the blue Function LED on the scanner will illuminate.

6. Before using WordPad file or relative APP, please set keyboard language of the device to USA language. Then, scan the barcodes and the barcode data will show on the cursor side. If the data cannot send to smartphone/tablet, please scan the **Restore Factory Defaults** barcode.

Note: This product complies with Bluetooth standards. The device that communicate with this product must support the same SPP or HID. For other Bluetooth devices with other profiles, we cannot guarantee a connection before the product has been tested.

The communication speed and range of the product may vary due to obstacles and radio wave condition between the product and device to which it is connected. Condition on the host device may also affect the communication speed and range of the scanner.

LED Notifications

Charging/Battery LED	
Red LED on	Charging in progress.
Green LED on	Fully charged.
Red and green LEDs flash alternately	Battery not found.
Red LED flashes	Low battery alert.
If the scanner is on and it is not connected to PC via USB cable, pressing the Scan/Power button and Delete/Reset button at the same time can display the battery level with the Charging/Battery LED.	
Green LED on	Battery level is high.
Red and green LEDs on	Battery level is medium.
Red LED on	Battery level is low.

When the battery voltage is too low, the scanner will beep with flashing red Charging/Battery LED. Please charge it immediately before the scanner shuts down mandatorily. When it shuts down, please charge it fully before turning it back on.

Good Read LED	
Green LED flashes	Good read.
Data LED	
Red LED flashes	Data being stored in FLASH.
Red LED on	FLASH memory depleted.
Function LED	
Blue LED flashes slowly with longer off state	Bluetooth turned on, but no Bluetooth connection established and the BS80 not found.
Blue LED flashes slowly with longer on state	Bluetooth turned on, but no Bluetooth connection established and the BS80 found.
Blue LED on	Bluetooth connection established.
Blue LED flashes quickly	Data transmission via Bluetooth in progress.
Red LED on	USB mode enabled.
Red LED flashes quickly	Batch data transmission via USB in progress.

Turning the BS80 On/Off

Turn the scanner on: Press the Scan/Power button.

Turn the scanner off: By default, the scanner automatically powers off if no operation is performed on the scanner for 30 minutes. You can adjust the auto power-off time. You can also turn off the scanner by scanning the **Power Off** barcode. For more information, see **Automatic/Manual Power-Off** section in Chapter 2.

Scanning Instructions

Scanning 1D Barcode

Adjust the scan angle (Do not read barcode at vertical degree) or the distance between barcode and the scanner to ensure that the length of the scan line is roughly 8mm greater than that of the barcode, as shown below.



Right	Wrong

Chapter 2 System Settings

Introduction

This chapter describes how to configure the basic system parameters on the scanner.

Restore Factory Defaults



Restore Factory Defaults

Operating Modes

The scanner provides two operating modes: Wireless mode (Bluetooth mode) and USB mode.

1. Wireless mode



Wireless Mode (default)

When the scanner is in the Wireless mode, scanning the following barcodes can switch between Bluetooth HID and SPP profiles. When the scanner is in the USB mode, scanning the following barcodes can switch between USB HID-KBW and USB COM Port Emulation.



Wireless Mode: HID (default)

USB Mode: USB HID-KBW (default)



Wireless Mode: SPP

USB Mode: USB COM Port Emulation

There are two data transmission modes: Synchronous mode and Asynchronous mode.

(1) Synchronous mode: When you scan barcodes, the data will be sent to smartphone/tablet directly. If you are out of Bluetooth service range, scanned data will be lost.

(2) Asynchronous mode: When you are out of Bluetooth service range, scanned data will be saved in the FLASH memory. Once you are back to service range, the data will be sent to smartphone/tablet automatically. The scanner will automatically remove it from the FLASH memory after smartphone/tablet receives the data.



Synchronous Mode



Asynchronous Mode (default)

2. USB mode

When you scan barcodes, the data will be saved in the FLASH memory. You can sync the data acquired in USB mode from the FLASH memory to your PC by following the procedure described below.

Data transmission from FLASH to PC via USB:

Step 1: Install the required driver on your PC.

Step 2: Connect the scanner to your PC with USB cable. The scanner beeps when the connection between them is established.

Step 3: Open Notepad or Office Word on your PC and make sure that your cursor is always positioned in it. Hold down the Function button on the scanner for 3 seconds or longer to start data transmission from the FLASH memory to your PC. To suspend or resume the transmission, press the Function button briefly. The scanner beeps when the transmission is completed.



USB Mode

Note:

1. When the scanner switches from one operating mode to the other, it beeps along with corresponding LED notification (For more information, see **LED Notifications** in Chapter 1)
2. Besides the method mentioned above, you can also hold down the Scan/Power button and Function button at the same time for 3 seconds to toggle the Wireless mode and USB mode.

Query Scanner Information



Query the Firmware & Hardware Versions of Scanner



Query the Firmware Version of Scan Engine



Query the Manufacture Date of Scanner



Query the Serial Number of Scanner

Query/Delete the Data in FLASH

The FLASH memory is divided into a USB storage area (used to save the data acquired in the USB mode) and a Bluetooth storage area (used to save the data acquired in Bluetooth asynchronous mode). You should note that removing data from the USB storage area may take a longer time.



Delete All Barcodes in FLASH



Query the Number of Barcodes in USB Storage Area



Only Delete Barcodes in USB Storage Area



Query the Number of Barcodes in Bluetooth Storage Area



Only Delete Barcodes in Bluetooth Storage Area

Sound Notifications

Turn sound notifications on or off by scanning the appropriate barcode below. After this feature is enabled, the scanner beeps when one of the following events occurs:

1. The scanner is turned on.
2. The scanner resets.
3. A barcode is decoded (including good read for removing barcode data from the FLASH memory).
4. The scanner switched to the Wireless mode or USB mode.
5. Transmitting data via Bluetooth failed.
6. iOS soft keyboard is turned on or off.
7. Data transmission via USB starts.
8. Data transmission via USB is interrupted.
9. Data transmission via USB is completed.
10. Paired Bluetooth device is unpaired from the scanner.
11. The scanner is turned off.
12. USB connection between the scanner and the host established.
13. USB connection between the scanner and the host lost.
14. Bluetooth connection between the scanner and the host established or lost.



Sound Notifications On (default)



Sound Notifications Off

Vibration Notifications

Turn vibration notifications on or off by scanning the appropriate barcode below. After this feature is enabled, the scanner vibrates when one of the following events occurs:

1. A barcode is decoded (including good read for removing barcode data from the FLASH memory).
2. The scanner switched to the Wireless mode or USB mode.
3. iOS soft keyboard is turned on or off.
4. Paired Bluetooth device is unpaired from the scanner.
5. Data transmission via USB starts.
6. The scanner is turned off.



Vibration Notifications On



Vibration Notifications Off (default)

Terminating Character Suffix



Append CRLF as Terminating Character Suffix (default)



Disable Terminating Character Suffix

Inter-Character Delay for Bluetooth HID

Select an appropriate inter-character delay to avoid data loss during transmission. This parameter is only valid in the Bluetooth HID mode.



5ms



15ms (default)



25ms



35ms



45ms



Query Inter-Character Delay

Delete Bluetooth Pairing



Delete Bluetooth Pairing

Automatic/Manual Power-Off

By default, the scanner automatically powers off if no operation is performed on the scanner for 30 minutes. This feature can help to extend battery life.



5 Minutes



10 Minutes



20 Minutes



30 Minutes (default)



60 Minutes



Disable Auto Power-Off



Query Auto Power-Off Timer

You can power off your scanner manually by scanning the barcode below.



Power Off

Note: After the Power Off barcode is scanned, the scanner emits a long beep and then turns off.

Time Stamp

You can decide whether to send date and time or not by enabling or disabling time stamp.



Enable Time Stamp (default)



Disable Time Stamp

Set Date Format



Format 1: mm/dd/yyyy
(example: 01/23/2011)



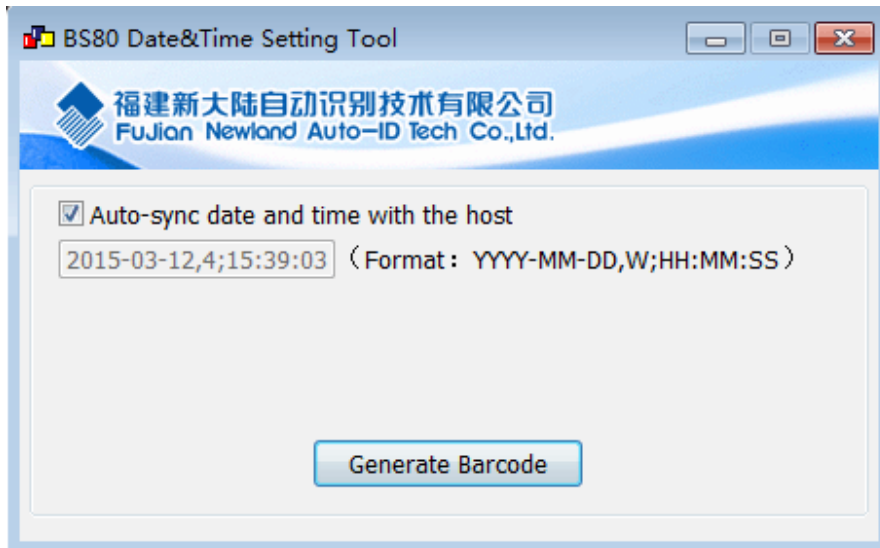
Format 2: dd/mm/yyyy
(example: 23/01/2011)



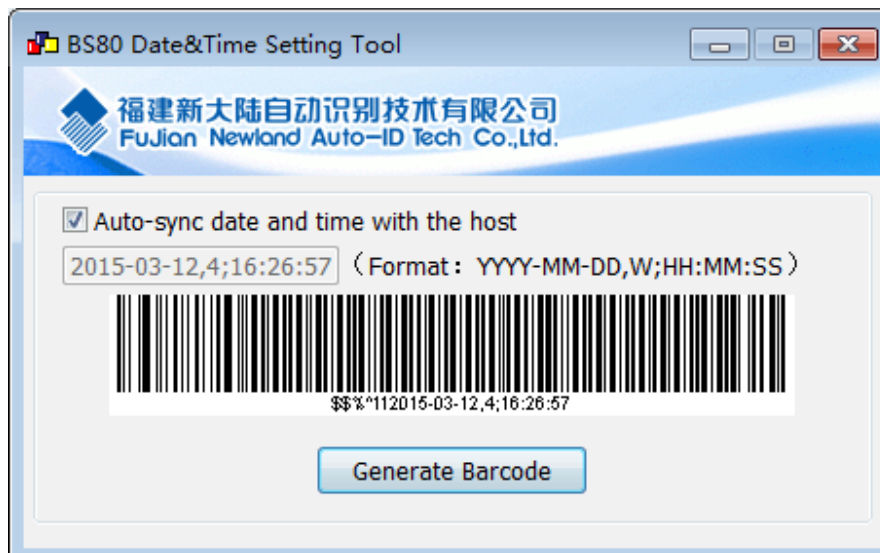
Format 3: yyyy/mm/dd (default)
(example: 2011/01/23)

Set Date & Time

Step 1: Double click on BS80Setting.exe to BS80 Date&Time Setting Tool. Then check the “Auto-sync date and time with the host” item on it.



Step 2: After the time in the box is in sync with the system clock, click the “Generate Barcode” button.



Step 3: Scan the barcode generated to set the date and time on the scanner.

Note: You need to run this tool on the Windows XP or WIN7 operating system.

Parameters of USB HID-KBW

USB Country Keyboard Types



US English (default)



Japan



Denmark



Finland



France



Turkey_F



Italy



Norway



Spain



Turkey_Q



U.K.

Convert Case



No Case Conversion (default)



Convert All to Upper Case



Convert All to Lower Case



Invert Upper and Lower Case Characters

Inter-Keystroke Delay for KBW

To set the inter-keystroke delay, scan the following barcode and a digit barcode (0~F).

Note: 0~F corresponds to 3ms (default), 8ms, 13ms, 18ms, 23ms, 28ms, 33ms, 38ms, 43ms, 48ms, 53ms, 58ms, 63ms, 68ms, 73ms and 78ms respectively.



Inter-Keystroke Delay for KBW

Upgrade the Firmware

Step 1: Install the driver: Run the CDC - Virtual COM Driver v1.1.0 program and then follow the on-screen instructions to complete the installation process. (Skip this step if it is already installed on your PC.) Make sure that the driver is properly installed. You cannot upgrade the firmware without it.

Step 2: Run the BS80Update program. Then click "Start".



Step 3: Turn on the scanner and connect it to your PC with the USB cable.

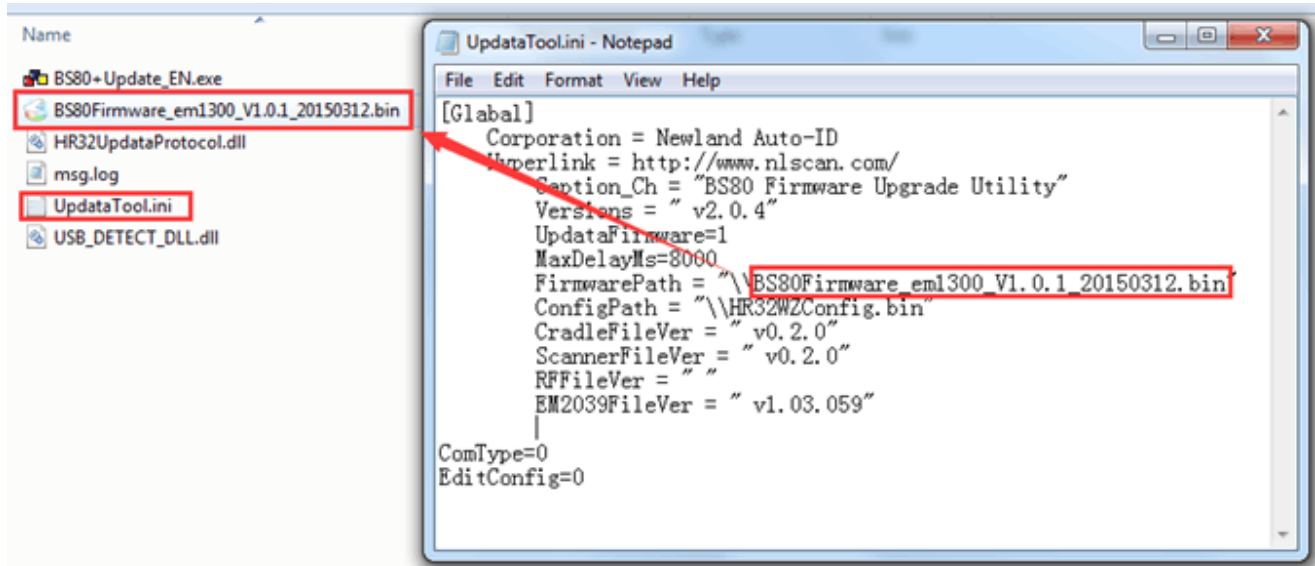
Step 4: Hold down the Function button and the Delete/Reset button on the scanner at the same time for 7 seconds to upgrade the firmware. The red and blue Function LEDs flash alternately during the updating process.



Step 5: Wait for the “Firmware upgraded!” window to pop up and click “OK” to exit the program.



Note: If this utility does not operate normally, check to see if the FirmwarePath in the UpdataTool.ini file is correct (its value should be identical with the name of the .bin file). If there is a higher version of firmware, replace the .bin file.



Chapter 3 Symbolologies

Introduction

Every symbology (barcode type) has its own unique attributes. This chapter provides programming barcodes for configuring the scanner so that it can identify various barcode symbologies. It is recommended to disable those that are rarely used to increase the efficiency of the scanner.

1D Symbolologies

Code 39



Enable (default)



Disable

Transmit Code 39 Start/Stop Character



Enable (default)



Disable

Code 39 FULL ASCII



Enable (default)



Disable

Code 128



Enable (default)



Disable

UCC/EAN-128



Enable (default)



Disable

EAN-8



Enable (default)



Disable

EAN-13



Enable (default)



Disable

ISSN



Enable (default)



Disable

ISBN



Enable (default)



Disable

UPC-E



Enable (default)



Disable

UPC-A



Enable (default)



Disable

Interleaved 2 of 5

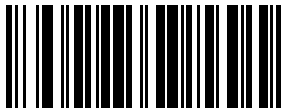


Enable (default)

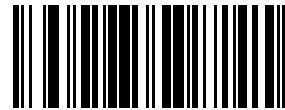


Disable

Matrix 25



Enable (default)



Disable

Industrial 25



Enable (default)



Disable

Codabar



Enable (default)



Disable

Code 93



Enable (default)



Disable

GS1 Databar (RSS)



Enable (default)



Disable

Code 11



Enable (default)



Disable

Plessey



Enable (default)



Disable

MSI-Plessey



Enable (default)



Disable

Appendix

Factory Defaults Table

Parameter	Factory Default	Remark
System Settings		
Operating Mode	Wireless mode (Bluetooth mode)	
Bluetooth Profile	HID	
USB Interface Type	USB HID-KBW	
Data Transmission Mode for Bluetooth	Asynchronous mode	
Sound Notifications	Enabled	
Vibration Notifications	Disabled	
Terminating Character Suffix	Append CRLF as Terminating Character Suffix	
Inter-Character Delay for Bluetooth HID	15ms	
Auto Power-Off Timer	30 minutes	
Time Stamp	Enabled	
Date Format	Format 3: yyyy/mm/dd	
USB Country Keyboard Types	US English	USB HID-KBW
Convert Case	No Case Conversion	USB HID-KBW
Inter-Keystroke Delay for KBW	3ms	USB HID-KBW

Parameter	Factory Default	Remark
Symbologies		
Code 39		
Code 39	Enabled	
Transmit Start/Stop Character	Enabled	
Code 39 Full ASCII	Enabled	
Code 128		
Code 128	Enabled	
UCC/EAN-128		
UCC/EAN-128	Enabled	
EAN-8		
EAN-8	Enabled	
EAN-13		
EAN-13	Enabled	
ISSN		
ISSN	Enabled	
ISBN		
ISBN	Enabled	
UPC-E		
UPC-E	Enabled	
UPC-A		
UPC-A	Enabled	
Interleaved 2 of 5		
Interleaved 2 of 5	Enabled	
Matrix 25		
Matrix 25	Enabled	
Industrial 25		
Industrial 25	Enabled	
Codabar		
Codabar	Enabled	

Code 93		
Code 93	Enabled	
GS1 Databar (RSS)		
GS1 Databar (RSS)	Enabled	
Code 11		
Code 11	Enabled	
Plessey		
Plessey	Enabled	
MSI-Plessey		
MSI-Plessey	Enabled	

NLS-BS80 Specifications

Performance		
Light Source	620 nm visible red LED	
Symbologies	1D: Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, ISSN, Interleaved 2 of 5, ISBN, Code 93, UCC/EAN-128, GS1 Databar, etc. 2D: PDF417, QR code, Data Matrix	
Resolution	1D (5 mil) – Code 39 2D (10 mil) – Data Matrix	
Scan Angle**	Pitch	±55° @ 0°Roll and 0°Skew
	Roll	±25° @ 0°Pitch and 0°Skew
	Skew	±75° @ 0°Roll and 0°Pitch
Minimum Symbol Contrast	30%	
Scan Rate	300 scans per second	
Interfaces	Micro USB, Bluetooth HID/SPP profiles	
Bluetooth Transmission Range	50m (open space)	
Wireless Standards	2.402–2.480GHz ISM band, compatible with Bluetooth 4.0 only	
Memory Capacity	1MB	
Mechanical/Electrical		
Dimensions (L x W x H)	88.0 x 46.0 x 24.5mm	
Weight	62g	
Notification	Sound, LED and vibration	
Battery	3.7V 900mA rechargeable Li-ion battery	
Power Adaptor (optional)	Output: DC 5V, 500mA Input: AC 100 ~ 240V, 50~60Hz	
Current	Operating Current	75mA (Bluetooth is on)
	Sleep Current	5mA
Environmental		
Operating Temperature	-20°C ~55°C	
Storage Temperature	-40°C ~ 80°C	
Humidity	5%~ 95% (non-condensing)	
Static Discharge	±8 KV (Contact discharge); ±15 KV(Air discharge)	
Drop	1.2m	
Sealing	IP42	

****Test conditions:**

Code 39, 3 Bytes; Resolution=10mil; W:N=3:1; PCS=0.8; Barcode Height=11mm; Scan Distance=120mm, T=23°C, Illumination=300 LUX

Digit Barcodes

0 ~ 9



0



1



2



3



4



5



6



7



8



9

A ~ F



A



B



C



D



E



F



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【Exit Setup】