Newland



NLS-BS8080 Series
Barcode Scanner
Quick Start

V1.0

About the BS8080

This manual is suitable for NLS-BS8080 Series barcode scanners.
The models for NLS-BS8080 Series are following:
NLS-BS8080-2D, NLS-BS80-2D, WDI-BS80-2D, BS80-2D, WDS-BS8080-2D, BS8080-2D, NLS-BS8080-1D, NLS-BS80-1D, WDS-BS80-1D, BS80-1D,WDS-BS8080-1D, BS8080-1D, NLS-BS80-1D

Introduction

The BS8080 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 or BLE communication.

Useful tips

1. The scanner will be turned off automatically after 30 minutes of inactivity. To turn it off manually,scan the Power Off barcode.
2. To turn on the scanner for the first time, hold down the Scan/Power button for 3 seconds until the scanner beeps.
3. When using Bluetooth HID profile,users need to enable input method(Google Pinyin or those that come with the host's operating system recommended)and switch to English input mode on the connected host.

About the BS8080

Delivery content

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Safety instructions

Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and operating instructions, Newland AIDC does not assume no liability for any resulting personal injury or damage to property.
1. Don't put the scanner in places with excessively high temperature, such as expose under direct sunlight.
2. Don't use the scanner in extremely humid area or drastic temperature change.
3. The rechargeable battery is permanently built into the product and cannot be replaced.
4. Never damage the rechargeable battery. Damaging the casing of the battery might cause an explosion or a fire.

Charging Instructions

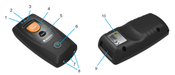
Low battery may result in failure or misoperation of the scanner. Please charge the scanner for 3~4 hours before your first use. Refer to Page 4 for an interpretation of the Charging/Battery LED status.



Charge the scanner by connecting it to a host with the Type C cable

Note: The scanner may not be powered on when the battery is very low. Please charge the battery for at least 15 minutes before turning on the scanner.

Overview



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 Type-C Port	8 Charged Contactor
9 Scan Window	10 Product Label

LEDs/Buttons

1 Charging/Battery LED

Red LED on	Charging in progress.
Green LED on	Fully charged.
Red LED flashes	Low battery alert.

If the scanner is on and it is not connected to PC via Type-C 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	High battery level.
Red and green LEDs on	Medium battery level.
Red LED on	Low battery level.

When the battery 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 repowering on the scanner.

2 Good Read LED

Green LED flashes	Good read.

3 Data LED

Red LED flashes	There is data in flash memory.
Red LED on	Flash memory depleted.

LEDs/Buttons

6 Function LED

Blue LED flashes slowly	Bluetooth mode enabled, but no Bluetooth connection established.
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	Data transmission via USB in progress.

4 Scan/Power Button

Press the button to scan barcode.
Hold down the button for 3s to power the scanner on.

5 Delete/Reset Button

Press the button to remove the corresponding data from the flash memory in one of the following conditions before scanning the barcode to be deleted: (i) Bluetooth mode enabled but no Bluetooth connection established; (ii) Bluetooth mode & Batch Transmission enabled; (iii) Bluetooth mode, connection established, and Batch mode; or (iv) USB mode & Batch Transmission enabled.
Hold down the button for 7s to power the scanner off.

LEDs/Buttons

6 Function Button

Press the button to turn on/off the HID keyboard of the connected iOS device in Bluetooth mode.
Hold down the button for 3s to start data transmission in either of the following conditions: (i) Bluetooth mode & Batch Transmission enabled; or (ii) USB mode enabled and the scanner connected to PC via USB cable.

4 Scan/Power Button+5 Delete/Reset Button

Press the two buttons at the same time to check the battery level with the Charging/Battery LED.
Hold down the two buttons at the same time for 3s to delete all stored data in the memory in either of the following conditions: (i) Bluetooth mode enabled, Bluetooth connection established, and Batch Transmission & Verify Receipt of Data enabled; or (ii) USB mode enabled, the scanner connected to PC via USB cable and Verify Receipt of Data enabled.

4 Scan/Power Button+6 Function Button

Hold down the two buttons at the same time for 3s to toggle between Bluetooth and USB mode.

LEDs/Buttons

5 Delete/Reset Button+6 Function Button

Press the two buttons at the same time to unpair the paired Bluetooth device from the scanner in Bluetooth mode and to make the scanner discoverable by other Bluetooth device.

Barcode Programming

Scan "Enter Setup" before barcode setting and scan "Exit Setup"after barcode setting

1 Enter/Exit Setup

1.1【Enter Setup】

#SETUPE1

1.2【Exit Setup】

#SETUPE0

Barcode Programming

2 Good Read Beep

2.1【Good Read Beep On】

@GRBLNA1

2.2【Good Read Beep Off】

@GRBLNA0

Barcode Programming

3 Good Read Vibration

3.1【Good Read Vibration On】

@GRVENA1

3.2【Good Read Vibration Off】

@GRVENA0

Barcode Programming

4 Time Stamp
The default setting of BS8080 time stamp is Beijing time. For more about setting time stamp, please refer to user guide.

4.1【Disable Time Stamp】

@WLSTSE0

4.2【Enable Time Stamp】

@WLSTSE1

Barcode Programming

4.3【Time Stamp Format】

@WLSTSF0

Format:(YYYY/MM/DD,HH:MM:SS)

@WLSTSF1

Format:DD/MM/YYYY,HH:MM:SS)

@WLSTSF2

Format:MM/DD/YYYY,HH:MM:SS)

Barcode Programming

5 Operating Mode

5.1.1【Bluetooth HID-KBW】

@INTERF10

5.1.2【Bluetooth SPP】

@INTERF9

Barcode Programming

5.1.3【Bluetooth BLE】

@INTERF11

5.2.1【USB HID-KBW】

@INTERF3

5.2.2【USB CDC】

@INTERF8

Barcode Programming

6 Batch Mode

6.1 Automatic Batch Mode

@WLSBAT1

6.2 Manual Batch Mode

@WLSBAT2

6.3 Disable Batch Mode

@WLSBAT0

Optimum Scanning for 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.



Correct	Wrong

Optimum Scanning for 2D Barcode

Adjust the scan angle and the distance between barcode and the scanner to make them fall into the following ranges:
1. Aim the scan line across the center of the barcode.
2. Optimum scan distances: 5-20cm.



FCC

FCC WARNING

Any Changes expressly or modifications not approved by the party responsible for compliance could void the user's authority to operate the 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.

Note: 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.

FCC

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .

Tested to comply with FCC Standards

Newland AIDC
Scanning Made Simple

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