

# NLS-BS80

## Barcode Scanner



The NLS-BS80 2D, a portable pocket scanner, is based on Bluetooth wireless communication. It can read international standard 1D barcode compatible with iOS and Android systems.

The NLS-BS80 2D has three data transmission modes: Synchronous/Asynchronous/Batch modes. Its excellent ultra-low power design delivers an outstanding battery life.

The NLS-BS80 2D can be connected to PDA, smart phone and PAD application via Bluetooth. It can be not only widely applied in traditional market such as Mobile Clinic, Store Visit but also O2O market like electronic ticketing and electronic order.

### Features

- **Superior Performance**

Its core technology **UIMG<sup>®</sup>** is solely developed by Newland, demonstrating an unprecedented decoding capability on standard 1D and mainstream 2D symbologies. Compatible with Bluetooth 4.0, 3.0 and 2.1, the barcode scanner enjoys enhanced data rate.

### Depth of Field

Symbology	Barcode Density	Depth of Field (mm)
Code 39	20mil	55 - 335
Data Matrix	10mil	60 - 175
QR Code	20mil	40 - 270

Note: Test conditions: T=23°C, Illumination=300 LUX

## NLS-BS80 2D Specifications

### Performance

<b>Image Sensor</b>	752x480 CMOS
<b>Symbologies</b>	<b>1D:</b> 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. <b>2D:</b> PDF417, QR Code, Data Matrix.
<b>Resolution</b>	≥5 mil
<b>Scan Angle**</b>	<b>Pitch</b> ±50°@ 0°Roll and 0°Skew <b>Roll</b> ±360°@ 0°Pitch and 0°Skew <b>Skew</b> ±50°@ 0°Roll and 0°Pitch
<b>Minimum Symbol Contrast</b>	30%
<b>Interfaces</b>	Micro USB, Bluetooth HID/SPP profiles
<b>Bluetooth Transmission Range</b>	50m (open space)
<b>Wireless Standards</b>	2.4 – 2.5GHz ISM band, compatible with Bluetooth 4.0/3.0/2.1+EDR
<b>Memory Capacity</b>	1MB (capable of storing the data of over 20,000 EAN-13 barcodes)

### Mechanical/Electrical

<b>Dimensions(L x W x H)</b>	88.0 x46.0 x 24.5mm
<b>Weight</b>	62g
<b>Notification</b>	Sound, LED and vibration
<b>Battery</b>	3.7V 900mA rechargeable Li-ion battery
<b>Battery Life</b>	6 hours of continuous operation (Synchronous mode, scan and send data once per 6s)
<b>Charging Time</b>	3.5 hours
<b>Power Adaptor(optional)</b>	Output: DC 5V, 500mA Input: AC 100 ~ 240V, 50~60Hz
<b>Current</b>	<b>Operating Current</b> 275mA (Bluetooth is on) <b>Sleep Current</b> 45mA

### Environmental

<b>Operating Temperature</b>	-20°C ~50°C
<b>Storage Temperature</b>	-40°C ~ 80°C
<b>Humidity</b>	5%~ 95%(non-condensing)
<b>Static Discharge</b>	±8 KV (Contact discharge); ±15 KV(Air discharge)
<b>Drop</b>	1.2m
<b>Sealing</b>	IP42

### Certifications

FCC Part15 Class B, CE EMC Class B

**\*\*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

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