



WIRELESS 2D COMPANION BARCODE SCANNER

NLS-BS80

Scanning made simple.

The pocket-sized BS80 companion scanner pairs over Bluetooth 4.0 Class 1 for an enhanced data rate up to five times faster than standard Bluetooth. It reads 1D and 2D barcodes on paper or screen, works with both iOS and Android, and its IP42-sealed housing withstands repeated 1.2 m drops to concrete.



NEWLAND AIDC, AVAILABLE THROUGH VERITRONICS

FEATURES

Reliable Bluetooth Communication

Bluetooth 4.0 Class 1 with an enhanced data rate up to five times faster than standard Bluetooth.

iOS & Android Compatible

Supports both iOS and Android operating systems, outperforming competitors on compatibility.

Industrial-Grade Durability

A rugged IP42-sealed housing withstands multiple 1.2 m drops to concrete.

KEY SPECIFICATIONS

Image Sensor 1280×800 CMOS (2D) · 2500 linear imager (1D)

Radio Technology Bluetooth 4.0 Class 1

Transmission Range 50m / 164ft (open space)

Battery 3.7V 900mAh Li-ion

Memory 1MB (20,000+ barcodes)

Dimensions (L×W×H) 88×46×24.5mm (3.46×1.81×0.96in)

Drop 1.2m / 3.94ft to concrete

Sealing IP42

Resolution ≥5 mil (0.127mm / 0.005in)

Operating Temperature -20°C to 50°C (-4°F to 122°F)

Technical Specifications

NLS-BS80

PERFORMANCE

Image Sensor	2D: 1280×800 CMOS · 1D: 2500 linear imager
Symbologies	1D: Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar, ISSN, Interleaved 2 of 5, ISBN, Code93, UCC/EAN-128, GS1 Databar, etc. 2D: PDF417, QR Code, Data Matrix, etc.
Resolution*	≥5 mil (0.127mm / 0.005in)
Typical Depth of Field*	EAN-13 (13mil): 50–540mm (1.97–21.26in) Code 39 (5mil): 65–260mm (2.56–10.24in) · QR Code (15mil): 20–320mm (0.79–12.6in) · PDF417 (6.7mil): 50–195mm (1.97–7.68in) · Data Matrix (10mil): 40–250mm (1.57–9.84in)
Min. Symbol Contrast*	25%
Scan Angle**	Pitch: ±60°, Roll: 360°, Skew: ±60°

WIRELESS

Radio Technology	Bluetooth 4.0 Class 1
Wireless Standards	2.4GHz ISM band; compatible with Bluetooth 4.0 / 3.0 / 2.1+EDR
Transmission Range	50m / 164ft (open space)
Interface	USB; Bluetooth HID / SPP / BLE profiles

PHYSICAL & ELECTRICAL

Battery	3.7V 900mAh rechargeable Li-ion
Expected Charge Time	3.5 hours
Operating Current	185mA (2D: up to 280mA), Bluetooth on
Standby Current	11mA
Memory	1MB (stores 20,000+ EAN-13 barcodes)
Dimensions (L×W×H)	88×46×24.5mm (3.46×1.81×0.96in)
Notification	Beep, LED, vibration

ENVIRONMENTAL

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Charging Temperature	0°C to 45°C (32°F to 113°F)
Humidity	5% to 95% (non-condensing)
ESD	±4kV (contact); ±12kV (air)
Drop	1.2m / 3.94ft to concrete
Sealing	IP42

CERTIFICATES

Certificates & Protection	CE RED, FCC, TELEC, IEC62471, RoHS, IEC60825
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*Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample printed barcodes made by Newland.

**Test conditions: Scan Distance=(min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp; 1D: EAN-13 (13mil). Specifications are subject to change without notice.