



NLS-BS20

BARCODE SCANNER

FEATURES

O Scan Hands Free

The BS20 is capable of reading a wide range of 1D and 2D barcodes with outstanding performance. It was designed to fit comfortably on your left or right hand without getting in the way of daily tasks, like carrying boxes. Its trigger button is positioned to be easy to operate with one hand.

Exceptional Battery Life

With 670mAh battery, it will run a comfortable 10 hours of continuous operation (depending on the application and environmental conditions). The provided USB cable allows convenient charging.

O Reliable Wireless Communication

With the click of a button, the BS20 pairs to your preferred device via Bluetooth 5.0 wireless technology. Whether your system runs on Windows, Android or iOS and whether you use a tablet, a smartphone, a computer or another Newland device, connecting the ring scanner is always easy. It provides freedom of movement up to 50 meters from the host.

Small but strong

The BS20 is reliable, even in semi-rough operational environments.











Performance

Image Sensor 640×480 CMOS
Illumination White LED
Aiming Red LED (625nm)

Symbologies 1D Code128, UCC/EAN-128, AIM128, EAN-8, EAN-13, ISBN/ISSN, UPC-E, UPC-A, Interleaved 2 of 5,

ITF-6, ITF-14, Standard 25, Codabar, Industrial 25, Code39, Code 93, Code 11, Plessey,

MSI-Plessey, GSI-DataBarTM(RSS), Matrix 2 of 5

2D PDF417, QR Code, Data Matrix, Aztec, Micro PDF, Micro QR

≥3mil

Typical Depth of Field* EAN-13 55mm-280mm (13mil)

 QR Code
 30mm-195mm (15mil)

 Code 39
 55mm-145mm (5mil)

 PDF 417
 40mm-130mm (6.67mil)

 Data Matrix
 40mm-140mm (10mil)

Scan Angle**

Pitch: ±60°, Roll: 360°, Skew: ±60°

Field of View

Horizontal 45°, Vertical 34°

Min Symbol Contrast* 20

Wireless

Resolution*

Communication Mode Bluetooth BLE, Bluetooth HID Modes

Radio Technology Bluetooth 5.0

Communication Distance*** 50m (open space)

Battery 670 mAh lithium-ion battery

Expected Charge Time <2 hours

Expected Battery Life 10 hours (depending on the application and environmental conditions).

Physical

Dimensions (L×W×H) 38×52.5×44.2mm

Weight 49g

Notification Beep, LED, vibration

Operating Voltage 5VDC±5%

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)
Battery Charge Temperature 0°C to 45°C (32°F to 113°F)
Humidity 5%-95% (non-condensing)

±12 KV (air discharge); ±8 KV (direct discharge)

Drop 1.2m Sealing IP42

Certificates

Certificates & Protection FCC, CE, RoHS, IEC62471, BIS, WPC

 ${\tt *Test \ conditions: T=23\%; Illumination=300 lux \ using \ incandescent \ lamp; sample \ printed \ barcodes \ made \ by \ Newland.}$

**Test conditions: Scan Distance= (min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp; ID: EAN-13 (13mil).

Specifications are subject to change without notice.

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