



NLS-BS20

BARCODE SCANNER

FEATURES

- **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.
- **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.



CMOS



1D Barcode



2D Barcode



IP sealing



Bluetooth

NLS-BS20

Performance

| | | |
|-------------------------|-------------|---|
| Image Sensor | | 640×480 CMOS |
| Illumination | | White LED |
| Aiming | | Red LED (625nm) |
| Symbologies | ID | 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 |
| Resolution* | | ≥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

| | |
|---------------------------|---|
| 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 | 11000 times (1 scan per second, 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) |
| ESD | ±12 KV (air discharge); ±8 KV (direct discharge) |
| Drop | 1.2m |
| Sealing | IP42 |

Certificates

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

*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;

ID: EAN-13 (13mil).

Specifications are subject to change without notice.

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