



## WIRELESS INDUSTRIAL BARCODE SCANNER

# NLS-NVH220B-HD

## Scanning made simple.

A wireless NVH220B, this scanner pairs Newland's latest decoding algorithm and dual-core platform with low-latency, interference-resistant transmission out to 150 m. Red/blue direct and white diffuse illumination plus optional OCR master demanding DPM and low-contrast marks, while a removable 2900 mAh battery runs 17+ hours.



NEWLAND AIDC, AVAILABLE THROUGH VERITRONICS

## FEATURES

### Excellent DPM Decoding

Newland's latest-generation algorithm excels on complex barcodes and laser-etched, dot-peened DPM codes.

### Reliable Wireless

New-generation wireless delivers low-latency, interference-resistant transmission out to 150 m line of sight.

### All-Shift Battery

A removable 2900 mAh battery runs 17+ hours and up to 60,000 scans per charge.

## KEY SPECIFICATIONS

|                        |                              |                       |                                          |
|------------------------|------------------------------|-----------------------|------------------------------------------|
| Image Sensor           | 1280×800 CMOS                | Dimensions (L×W×H)    | 68×86×180mm (2.68×3.39×7.09in) (scanner) |
| Aiming                 | 650nm crosshair laser        | Weight                | 218g (7.69oz, scanner w/ battery)        |
| Communication Distance | 150m / 492ft (line of sight) | Drop                  | 1.8m / 5.91ft                            |
| Battery                | 2900 mAh (removable)         | Sealing               | Scanner IP64 / Cradle IP42               |
| Interface              | USB, RS232                   | Operating Temperature | -20°C to 50°C (-4°F to 122°F)            |

# Technical Specifications

NLS-NVH220B-HD

## PERFORMANCE

|                        |                                                                                                                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Illumination           | Direct: red & blue LEDs; Diffuse: white LEDs                                                                                                                                                                                                                                                                |
| Aiming                 | 650nm crosshair laser                                                                                                                                                                                                                                                                                       |
| Symbologies            | 2D: QR Code, PDF417, Micro QR, Data Matrix, Aztec<br>1D: EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code128, Code93, ITF-6, ITF-14, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, Code39, AIM 128, GS1 Composite, GS1-128 (UCC/EAN), ISBT 128, Code11, MSI-Plessey, Plessey |
| OCR                    | Optional                                                                                                                                                                                                                                                                                                    |
| Resolution             | 1D: ≥1.85 mil (0.047mm) · 2D: ≥3 mil (0.076mm)                                                                                                                                                                                                                                                              |
| Typical Depth of Field | EAN-13 (13mil): 10–280mm (0.39–11.02in)<br>Code39 (5mil): 30–180mm (1.18–7.09in) · Code39 (20mil): 50–440mm (1.97–17.32in)<br>Data Matrix (10mil): 15–140mm (0.59–5.51in) · QR Code (20mil): 10–250mm (0.39–9.84in)                                                                                         |
| Min. Symbol Contrast   | 15%                                                                                                                                                                                                                                                                                                         |
| Scan Angle             | Roll: 360°, Pitch: ±50°, Skew: ±50°                                                                                                                                                                                                                                                                         |
| Field of View          | Horizontal 42°, Vertical 28°                                                                                                                                                                                                                                                                                |

## WIRELESS

|                        |                                                |
|------------------------|------------------------------------------------|
| Communication Distance | 150m / 492ft (line of sight)                   |
| Expected Battery Life  | ≥17 hrs continuous · up to 60,000 scans/charge |
| Expected Charge Time   | 3 hours                                        |

## PHYSICAL & ELECTRICAL

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Interface          | USB, RS232                                                                       |
| Rated Power        | 1400mW (typical)                                                                 |
| Current @3.8VDC    | 370mA (operating, red LED default) · 90mA standby · 40mA idle                    |
| Battery            | 2900 mAh (removable)                                                             |
| Dimensions (L×W×H) | Scanner: 68×86×180mm (2.68×3.39×7.09in)<br>Cradle: 103×127×123mm (4.06×5×4.84in) |
| Weight             | Scanner: 218g (7.69oz, w/ battery) · Cradle: 217g (7.65oz)                       |
| Notification       | Beep, LED indicator, vibrator                                                    |

## ENVIRONMENTAL

|                       |                                |
|-----------------------|--------------------------------|
| Operating Temperature | -20°C to 50°C (-4°F to 122°F)  |
| Battery Charging Temp | 0°C to 45°C (32°F to 113°F)    |
| Storage Temperature   | -40°C to 70°C (-40°F to 158°F) |
| Humidity              | 5% to 95% (non-condensing)     |
| ESD                   | ±16kV (air); ±8kV (direct)     |
| Drop                  | 1.8m / 5.91ft (repeated)       |
| Sealing               | Scanner: IP64 · Cradle: IP42   |

## CERTIFICATION

|                |                                                     |
|----------------|-----------------------------------------------------|
| Certifications | CE, CCC, FCC, KC, BIS, RoHS 2.0, IEC62471, IEC60825 |
|----------------|-----------------------------------------------------|

Accessories: USB cable, RS-232 cable, removable 2900 mAh battery, wall-mount bracket. Specifications are subject to change without notice. Version: V1.0