



WIRELESS INDUSTRIAL DPM SCANNER

NLS-NVH300B-DP

Scanning made simple.

The cordless NVH300B-DP brings Newland's UIMG® DPM engine to the production floor without the cable — a stable wireless link reaches 150 m line of sight, and a 3200 mAh battery with charging cradle keeps shifts covered. White direct plus red/blue diffuse ring lighting reads laser-etched and dot-peened marks on reflective, curved and low-contrast surfaces.



NEWLAND AIDC, AVAILABLE THROUGH VERITRONICS

FEATURES

Excellent DPM Decoding

The UIMG® engine lifts success rates on complex and DPM barcodes, including laser-etched and dot-peened marks.

Reliable 150 m Wireless

A stable wireless link reaches 150 m (492 ft) line of sight, with 900KB flash buffering scans beyond range.

All-Shift Battery & Cradle

A 3200 mAh battery charges in 4 hours on the included cradle, keeping the floor moving.

KEY SPECIFICATIONS

Image Sensor	1280×960 CMOS	Dimensions (W×D×H)	76×107×179mm (2.99×4.21×7.05in) (scanner)
Aiming	650nm laser diode	Weight	271g (9.56oz, scanner)
Communication Distance	150m / 492ft (line of sight)	Sealing	Scanner IP54 / Cradle IP42
Battery	3200 mAh	Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Radio Technology	Bluetooth 5.0 BLE (2.4GHz ISM)	Interface	USB, RS232, Ethernet

Technical Specifications

NLS-NVH300B-DP

PERFORMANCE

Image Sensor	1280×960 CMOS
Illumination	Direct: white LED; Diffuse: ring of red & blue LEDs
Aiming	650nm laser diode
Symbologies	2D: QR Code, Micro QR Code, PDF417, Data Matrix 1D: EAN-8, EAN-13, UPC-A, UPC-E, Code 128, UCC/EAN128, Interleaved 2 of 5, ITF-14, ITF-6, Matrix 2 of 5, MSI Plessey, AIM 128, ISBT 128, COOP 25, Deutsche14, Deutsche12
Typical Depth of Field*	Code 39 (3.3mil): 38–68mm (1.5–2.68in) · QR Code (5mil): 20–50mm (0.79–1.97in) Code 39 (5mil), Data Matrix (10mil) & QR Code (10mil): to 90mm (3.54in) Data Matrix (5mil): to 58mm (2.28in)
Scan Angle**	Roll: 360°, Pitch: ±60°, Skew: ±55°
Min. Symbol Contrast*	15%

WIRELESS

Radio Technology	Bluetooth 5.0 BLE, 2.4–2.4835GHz ISM band
Communication Distance	150m / 492ft (line of sight)
Flash Memory	900KB
Battery	3200 mAh
Expected Charge Time	4 hours

PHYSICAL & ELECTRICAL

Interface	USB, RS232, Ethernet
Operating Voltage	5VDC±5%
Rated Power	2246mW (typical)
Current @5VDC	562mA (operating); 116mA (idle); 43mA (sleep)
Dimensions (W×D×H)	Scanner: 76×107×179mm (2.99×4.21×7.05in) Cradle: 195×89×67mm (7.68×3.5×2.64in)
Weight	Scanner: 271g (9.56oz) · Cradle: 285g (10.05oz)
Notification	Buzzer, LED indicator, vibrator

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)
Humidity	5% to 95% (non-condensing)
Ambient Light	0–100,000lux (natural light)
ESD	±16kV (air discharge); ±8kV (direct discharge)
Sealing	Scanner: IP54 · Cradle: IP42

CERTIFICATES

Certificates & Protection	CE, FCC, RoHS
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*Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample barcodes made by Newland. **Scan Distance=(min. DOF + max. DOF)/2. Specifications are subject to change without notice. Version: V2.1 2023/05/04