



HANDHELD INDUSTRIAL DPM SCANNER

NLS-NVH300-DP

Scanning made simple.

Built for direct-part-marking, the NVH300-DP reads laser-etched and dot-peened codes with Newland's latest UIMG® engine. White direct plus red/blue diffuse ring lighting adapts to reflective, curved and low-contrast surfaces, and AI positioning with intelligent learning tunes itself to each scene — all in an IP64 body rated for 2.4 m drops.



NEWLAND AIDC, AVAILABLE THROUGH VERITRONICS

FEATURES

Excellent DPM Decoding

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

Advanced Ring Illumination

White direct plus red/blue diffuse ring lighting handles reflective surfaces, curved shapes and varied barcode colors.

AI-Powered & Rugged

AI barcode positioning and intelligent learning aid low-contrast reads; an IP64 body withstands 2.4 m drops.

KEY SPECIFICATIONS

Image Sensor	1280×960 CMOS	Dimensions (W×D×H)	76×107×185mm (2.99×4.21×7.28in)
Aiming	650nm laser diode	Weight	245g (8.64oz)
Interface	USB, RS232, Ethernet	Drop	2.4m / 7.87ft
Field of View	Horizontal 41°, Vertical 31°	Sealing	IP64
Min. Symbol Contrast	15%	Operating Temperature	-20°C to 50°C (-4°F to 122°F)

Technical Specifications

NLS-NVH300-V2-DP

PERFORMANCE

Illumination	Direct: white LEDs; Diffuse: red & blue LED ring
Aiming	650nm laser diode
Symbologies	2D: QR Code, PDF417, Micro QR, Data Matrix, Aztec 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
Resolution*	1D: ≥1.67 mil (0.042mm) · 2D: ≥3 mil (0.076mm)
Typical Depth of Field*	Code39 (3.3mil): 10–100mm (0.39–3.94in) · Code39 (5mil): 10–130mm (0.39–5.12in) · Data Matrix (5mil): 25–90mm (0.98–3.54in) · Data Matrix (10mil): 0–130mm (0–5.12in) · QR Code (5mil): 10–85mm (0.39–3.35in) · QR Code (15mil): 0–170mm (0–6.69in)
Min. Symbol Contrast*	15%
Scan Angle**	Roll: 360°, Pitch: ±60°, Skew: ±55°
Field of View	Horizontal 41°, Vertical 31°

PHYSICAL & ELECTRICAL

Interface	USB, RS232, Ethernet
Operating Voltage	5VDC±5%
Rated Power	2190mW (typical)
Current @5VDC	438mA (typ.), 476mA (max.)
Dimensions (W×D×H)	76×107×185mm (2.99×4.21×7.28in)
Weight	245g (8.64oz)
Notification	Beep, 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)
ESD	±16kV (air); ±8kV (direct)
Drop	2.4m / 7.87ft
Sealing	IP64

CERTIFICATION

Certifications	FCC Part15 Class B, CE, RoHS
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*Test conditions: T=23°C; Illumination=300lux incandescent; sample barcodes made by Newland. **Scan Distance=(min.+max. DOF)/2; 2D: QR Code, 10 Bytes, 15mil, PCS=0.8. Specifications are subject to change without notice. Version: V2.0