



Newland AIDC
Scanning Made Simple



NLS-NVH300-DP

HANDHELD INDUSTRIAL DPM BARCODE SCANNER

FEATURES

Excellent DPM Decoding Capability

With the new generation of industrial decoding algorithm, it has strong decoding ability for DPM barcodes such as radium carving and dotting barcodes.

Advanced Illumination system

Provide white direct illumination, red and blue diffuse ring lights, rich lighting system can meet different materials (such as reflection), shape (curved surface), background and bar code color of all kinds of complex scanning code needs.

Intelligent Light Selection & Rich

Configuration Functions

It is equipped with intelligent light source selection function, which can automatically adjust the light source type according to the decoding efficiency. And software NSet provides a variety of configuration functions.

High Protection Industrial Structure Design

The NLS-NVH300, built into an IP64-sealed and can withstand repeated falls from 1.8 meters to the ground, with excellent reliability and stability.

○ Snappy On-screen Barcode Capture

Optimized for digital barcode reading, this CPU-based scanner is capable of reading 1D as well as high-volume 2D barcodes on a screen covered with protective film.

○ Superior Motion Tolerance

Exceptional motion tolerance (2.7m/s) and large FOV (horizontal 68°, vertical 51°) enhance user experience.



2D Barcode



1D Barcode



Drop



NSet



RS232



USB

1.8m

NLS-NVH300-DP

Performance

Image Sensor		1280 × 960 CMOS
Illumination		Direct: white light LED;
Aiming		Diffuse: Ring of red&blue LEDs;
		650nm laser diode
Symbologies	2D	QR Code, PDF417, Micro QR, Data Matrix.
	1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code128, Code93, Code11, COOP25, GSI-128 (UCC/EAN-128), ITF-6, ITF-14, AIMI28, ISBT128, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, MSI Plessey, Code 39, Plessey, Deutsche 14, Deutsche 12.
Resolution*		≥3mil
Product Type		NLS-NVH300-DP
Typical Depth of Field*	Code 39 (3.3mil)	38mm-68mm
	Code 39 (5mil)	18mm-90mm
	Data Matrix (5mil)	18mm-58mm
	Data Matrix (10mil)	0mm-90mm
	QR Code (5mil)	20mm-50mm
	QR Code (10mil)	0mm-90mm
Motion Tolerance*		2m/s
Min. Symbol Contrast*		20%
Scan Angle**		Roll: 360°, Pitch: ±60°, Skew: ±5°
		Horizontal 41°, Vertical 31°

Physical

Interface		USB, RS232
Operating Voltage		5VDC±5%
Rated Power Consumption		2250mW (typical)
Current@5VDC	operating (typical)	450mA
	operating (max.)	475mA
Dimensions		76.0 (W) × 107.0 (D) × 185.0 (H) mm
Weight		245g
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			±16 KV (air discharge); ±8 KV (direct discharge)
Drop			1.8m
Sealing			IP64
Certifications			FCC Part15 Class B, CE EMC Class B
Accessories	Cable	USB	Used to connect the NVH300 to a host device.
		RS-232	Used to connect the NVH300 to a host device.

*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;

2D QR Code; 10 Bytes; Resolution=15mil; PCS=0.8.

Specifications are subject to change without notice.

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