Newland AIDC
Scanning Made Simple

NLS-NVH300X-HDP

HANDHELD INDUSTRIAL DPM BARCODE SCANNER

FEATURES

Excellent DPM Decoding Capability

Featuring the latest UIMG $^{®}$ decoding system, it enhances decoding success rates for complex barcodes, optimizing workflows and improving overall decoding efficiency. It also delivers exceptional decoding performance for DPM barcodes, including laser-etched and dot-peened markings.

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.

AI Function and Intelligent Learning

Equipped with the latest AI-powered barcode positioning technology, the NLS-NVH300 improves decoding performance for low-contrast barcodes. Additionally, intelligent learning enables automatic parameter adjustments based on different scenarios.

High Protection Industrial Structure Design

The NLS-NVH300, built into an IP64-sealed and can withstand repeated falls from 2.4 meters to the ground, with excellent reliability and stability.

2D Barcode	1D Barcode	NSet	RS232	USB	Drop
					2.4m

NLS-NVH300X-HDP

Performance

Image Sensor		1920 × 1200 CMOS
Illumination		Direct: white light LEDs;
		Diffuse: Ring of red&blue LEDs;
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, Code 39
Resolution*		1D≥1.25mil 2D≥1.67mil
Product Type		NLS-NVH300X-V2-HDP
Typical Depth of Field*	Code 39 2mil	20mm-33mm
	Code 39 5mil	15mm-40mm
	Data Matrix 1.67mil	25mm-28mm
	Data Matrix 5mil	16mm-36mm
	QR Code 1.67mil	22mm-26mm
Min. Symbol Contrast*		15%
Scan Angle**		Roll: 360º, Pitch: ±60º, Skew: ±55º
Field of View		Horizontal 33.6º, Vertical 21.4º

Physical

Interface		USB,RS232,Ethernet
Operating Voltage		5VDC±5%
Rated Power Consumption		2190mW (typical)
Current@5VDC	operating(typical)	438mA
	operating(max.)	476mA
Dimensions		76(W) ×107(D) ×185(H) mm
Weight		245g
Notification		Beep, LED indicator, Vibrator

Environmental

Operating Temperature			-20ºC to 50ºC(-4°F to 122°F)
Storage Temperature			-40ºC to 70ºC(-40°F to 158°F)
Humidity			5% to 95% (non-condensing)
ESD			±16 KV (air discharge); ±8 KV (direct discharge)
Drop			2.4m
Sealing			IP64
Certifications			FCC Part15 Class B, CE EMC Class B，BIS
Accessories	Cable	USB	Used to connect the NVH300 to a host device.
		RS-232	Used to connect the NVH300 to a host device. Adapter: input 100~240V,Output 5VDC/1.5A
		Ethernet	Used to connect the NVH300 to a host device. Adapter: input 100~240V,Output 5VDC/1.5A

*Test conditions: T=23℃; Illumination=300lux using incandescent lamp; sample printed barcodes made by Newland.

**Test conditions: Scan Distance= (min. DOF + max. DOF)/2; T=23ºC; Illumination=300lux using incandescent lamp;

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

Specifications are subject to change without notice.   Version: V2.0   2026/03/03

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