Newland AIDC
Scanning Made Simple

NLS-NVH220-HXD

HANDHELD INDUSTRIAL 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.

Upgraded Dual-Core Processing Platform

The NLS-NVH220-XD features an upgraded dual-core processing platform that enhances computing capability and efficiency, enabling faster, more stable decoding with lower power consumption.

Advanced Illumination System

Provides red and blue direct illumination and white diffuse lights. The versatile lighting system accommodates various materials (such as reflective surfaces), shapes (such as curved surfaces), backgrounds, and barcode colors, meeting diverse and complex scanning requirements.

AI Function and Intelligent Learning

Equipped with the latest AI-powered barcode positioning technology, the NLS-NVH220-HXD 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-NVH220-HXD, built into an IP64-sealed and can withstand repeated falls from 2.4 meters to the ground, chemical-resistant housing, with excellent reliability and stability.

| AI | 1D Barcode | 2D Barcode | IP sealing | RS232 | USB | Drop |

NLS-NVH220-HXD

Performance

Image Sensor		1280 × 800 CMOS
Illumination		Direct: red & blue LEDs;
		Diffuse: white LED;
Aiming		650nm, crosshair laser
	2D	QR Code, PDF417, Micro QR, Data Matrix, AZTEC.
Symbologies	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, AIM 128, GS1 Composite, GS1-128 (UCC/EAN), ISBT 128
		Code 11, MSI-Plessey, Plessey, etc.
Resolution*		≥2mil
Typical Depth of Field*	EAN-13 (13mil)	20mm-95mm
	Code 39 (5mil)	0mm-75mm
	Code 39 (20mil)	65mm-140mm
	Data Matrix (10mil)	0mm-70mm
	QR Code (20mil)	0mm-120mm
Min. Symbol Contrast*		20%
Scan Angle**		Roll: 360º, Pitch: ±50º, Skew: ±50º
Field of View		Horizontal 33º, Vertical 22º

Physical

		USB, RS232, Ethernet
Operating Voltage		5VDC±5%
Rated Power Consumption		1500mW (typical)
Current@5VDC	Operating (typical)	300mA
	Operating (max.)	450mA
Dimensions		68(W)×86(D)×180(H) mm
Weight		160g (without cable)
Notification		Beep, LED indicator, Vibrator
Communication Protocols		Supports USB CDC, USB HID KBW ,RS232, TCP/IP， Ethernet/IP, Profinet

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

Accessories

Accessories	Cable	USB	USB cable
		RS-232	RS232 cable and AC adapter, Input 100~240V, output DC 5V/1.5A
		Ethernet	Ethernet cable and AC adapter, Input 100~240V, output DC 5V/1.5A

Certification

Certification	CE, FCC, RoHS 2.0, IEC 60825-1, IEC 62471, BIS, KC, ISO 16750-5:2023

*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.

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