



## NLS-NVH220-XD

### HANDHELD INDUSTRIAL BARCODE SCANNER

## FEATURES

### Excellent DPM Decoding Capability

Featuring the latest Ulmage7.3 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, 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-XD 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-XD, built into an IP64-sealed and can withstand repeated falls from 1.8 meters to the ground, with excellent reliability and stability.



AI



1D Barcode



2D Barcode



IP 64



RS232



USB



Drop

# NLS-NVH220-XD

## 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, GSI Composite, GSI-128 (UCC/EAN), ISBT 128 Code 11, MSI-Plessey, Plessey, etc.
Resolution*		≥2mil
	EAN-13 (13mil)	35mm-200mm
	Code 39 (5mil)	15mm-150mm
Typical Depth of Field*	Code 39 (20mil)	75mm-270mm
	Data Matrix (10mil)	10mm-140mm
	QR Code (20mil)	10mm-200mm
Motion Tolerance*		2m/s
Min. Symbol Contrast*		20%
Scan Angle**		Roll: 360°, Pitch: ±50°, Skew: ±50°
Field of View		Horizontal 33°, Vertical 22°

## Physical

Interface		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 TCP/IP

## 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, CE, ROHS, IEC62471, BIS, KC
Accessories	USB	Used to connect the NVH220 to a host device.
	RS-232	Used to connect the NVH220 to a host device.
	Cable	AC adapter, Input 100~240V, output DC 5V/1.5A
	Ethernet	Used to connect the NVH220 to a host device. AC adapter, Input 100~240V, output DC 5V/1.5A

\*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.

Version: V1.0 2025/05/08

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