



**Newland AIDC**  
Scanning Made Simple



## NLS-NVH220-HD

### HANDHELD INDUSTRIAL 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.

### AI Function and Intelligent Learning

Equipped with AI function, it has excellent barcode positioning and barcode reconstruction capabilities. At the same time, intelligent learning can automatically adjust parameters according to different scenarios.

### Advanced Illumination system

Provide white and red direct illumination, 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.

### High Protection Industrial Structure Design

The NLS-NVH220, built into an IP64-sealed and can withstand repeated falls from 1.8 meters to the ground, with excellent reliability and stability.



2D Barcode



1D Barcode



AI Function



RS232



USB



1.8m Drop

# NLS-NVH220-HD

## Performance

Image Sensor		1280 × 960 CMOS
Illumination		Direct: white & red light LED;
Aiming		Diffuse: Ring of blue LEDs;
		LED 532nm
	2D	QR Code, PDF417, Micro QR, Data Matrix, AZTEC.
Symbologies	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, AIM128, 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-NVH220-HD
	EAN-13(13mil)	25mm-160mm
	Code 39(5mil)	40mm-100mm
Typical Depth of Field*	Code 39(20mil)	35mm-210mm
	Data Matrix(10mil)	0mm-125mm
	QR Code(20mil)	20mm-180mm
Motion Tolerance*		2m/s
Min. Symbol Contrast*		20%
Scan Angle**		Roll: 360°, Pitch: ±50°, Skew: ±50°
Field of View		Horizontal 41°, Vertical 31°

## Physical

Interface		USB, RS232, PS/2
Operating Voltage		5VDC±5%
Rated Power Consumption		1600mW (typical)
Current@5VDC	operating(typical)	320mA
	operating(max.)	480mA
Dimensions		67(W)×86(D)×170(H) mm
Weight		165g
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, CE, ROHS, IEC62471, BIS, KC
Accessories	Cable	USB Used to connect the NVH220 to a host device.
	RS-232	Used to connect the NVH220 to a host device.
	PS/2	Used to connect the NVH220 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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### Newland AIDC

Add: No.1 Rujiang West Rd.,  
Mawei, Fuzhou, Fujian 350001, China  
Tel: +86-591-83979500  
Fax: +86-591-83979216  
Email: info@newlandaidc.com  
Web: www.newlandaidc.com

### Newland North America

Add: 46559 Fremont Blvd.,  
Fremont, CA 94538, USA  
Tel: +1 510 490 3888  
North America Channel:  
Tel: +1 408 838 3703  
Email: info@newlandaidc.com

### Newland Latin America

Tel: +1 239 598 0068  
Email: info@newlandaidc.com  
**Brazil**  
Tel: +55 35 9767 6078  
**Chile**  
Tel: +56 9 9337 3177

### Colombia

Tel: +57 319 387 4484  
**Mexico, Central America & Caribbean**  
Tel: +52 155 5432 9079