



# NLS-NVH220B-HD

## HANDHELD INDUSTRIAL BARCODE SCANNER

### FEATURES

#### Excellent DPM Decoding Capability

Powered by Newland's latest-generation **UIMG**<sup>®</sup> decoding algorithm, the NLS-NVH220B-HD significantly improves decoding performance on complex barcodes and excels at decoding laser-etched and dot-peened DPM codes.

#### Upgraded Dual-Core Processing Platform

The NLS-NVH220B-HD features an upgraded dual-core processing platform that delivers higher compute performance at lower power, enabling faster, more stable decoding and superior image capture.

#### Versatile Illumination System

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

#### Advanced OCR Recognition Technology

Equipped with advanced OCR technology, the NLS-NVH220B accurately recognizes alphanumeric characters on products and materials, boosting productivity.

#### High Protection Industrial Structure Design

The NLS-NVH220B built into an IP64-sealed and can withstand repeated falls from 1.8 meters to the ground, with excellent reliability and stability.

#### Wireless Connectivity

Powered by the new generation of wireless communication technology, the scanner delivers low-latency, highly reliable performance with strong interference immunity, ensuring stable, reliable, and accurate data transmission even in complex RF environments.

#### AI Function and Intelligent Learning

Equipped with the latest AI-powered barcode positioning technology, the NLS-NVH220B improves decoding performance for low-contrast barcodes. Additionally, intelligent learning enables automatic parameter adjustments based on different scenarios.



AI



1D Barcode



2D Barcode



IP sealing



Wireless



USB



Drop

# NLS-NVH220B-HD

## Performance

Image Sensor		1280 × 800 CMOS
Illumination		Direct: red & blue LEDs; Diffuse: white LEDs;
Aiming		650nm, crosshair laser
Symbologies	ID	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.
	2D	QR Code, PDF417, Micro QR, Data Matrix, AZTEC.
	OCR	Optional
Resolution	ID	≥1.85mil
	2D	≥3mil
	EAN-13(13mil)	10mm-280mm
	Code 39(5mil)	30mm-180mm
Typical Depth of Field	Code 39(20mil)	50mm-440mm
	Data Matrix(10mil)	15mm-140mm
	QR Code(20mil)	10mm-250mm
Min. Symbol Contrast		15%
Scan Angle		Roll: 360°, Pitch: ±50°, Skew: ±50° Horizontal 42°, Vertical 28°

## Physical

Interface		USB, RS232
Rated Power Consumption		1400mW (typical)
Current@3.8VDC	Operating	370mA (red LED by default)
	Standby	90mA
	Idle	40mA
Dimensions(L×W×H)		Scanner: 68 × 86 × 180mm Cradle: 103 × 127 × 123 mm
		Weight
Weight		Scanner: 218g (with battery), cradle:217g
Notification		Beep, LED indicator, Vibrator

## Environmental

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Battery Charging Temperature	0°C to 45°C (32°F to 113°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	Scanner: IP64
	Cradle: IP42

## Wireless

Communication Distance	150m (line of sight)
Expected Battery Life	≥17 hours of continuous operation, up to 60,000 scans per charge
Expected Charge Time	3 hours

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# NLS-NVH220B-HD

## Certifications

Certifications			CE, CCC, FCC, KC, BIS, RoHS2.0, IEC62471, IEC60825
Accessories	Cable	USB	Used to connect the NVH220B-HD to a host device.
		RS-232	Used to connect the NVH220B-HD to a host device.
Others			Removable battery (2900 mAh), wall-mounted bracket, rubber boot

Specifications are subject to change without notice.

Version: V1.0

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