



Newland AIDC
Scanning Made Simple



NLS-NVH220B-HD

BLUETOOTH 2D BARCODE SCANNER

FEATURES

Excellent DPM Decoding Capability

Armed with Newland's latest-generation industrial decoding algorithm, it has strong decoding ability for DPM barcodes such as radium carving and dotting barcodes.

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.

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..

Wireless Connectivity

Bluetooth 5.0 radio gives users the freedom to scan barcodes from up to 150 meters from the cradle, and the perks of faster data rate, better energy efficiency and much easier pairing over the Bluetooth wireless connection.

High Protection Industrial Structure Design

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



2D Barcode



Ethernet



1D Barcode



NSet



Bluetooth



RS232



USB

NLS-NVH220B-HD

Performance

Image Sensor		1280 × 960 CMOS
Illumination		Direct: white & red light LED;
Aiming		Diffuse: Ring of blue LEDs;
		LED 532nm
Symbologies	2D	QR Code, Micro QR Code, PDF 417, Data Matrix, AZTEC.
	1D	EAN-8, EAN-13, UPC-E, UPC-A, Code 128, UCC/EAN128, Interleaved 2 of 5, ITF-14, ITF-6, Matrix 2 of 5, CodaBar, Code 39, Code 93, ISSN, ISBN, Industrial 25, Standard 25, Plessey, Code11, MSI Plessey, AIM 128, ISBT 128, COOP 25, Deutsche14, Deutsche12.
Resolution*		≥3mil
Product Type		NLS-NVH220B-HD
Typical Depth of Field*	EAN-13(13mil)	25mm-160mm
	Code 39(5mil)	40mm-100mm
	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		2246mW (typical)
Current@4VDC	Power consumption	562mA
	Idle	116mA
	Sleep	43mA
Dimensions		Scanner: 68.0(W) ×105.0(D) ×169.0(H) mm, Cradle: 103(W) × 127(D) ×83(H) mm
Weight		Scanner: 220g, Cradle: 230g
Notification		Buzzer, LED indicator, Vibrator
Communication Distance		150m (line of sight)
Flash Memory		≥30000 pieces of code 128 (20 byte of each Code 128)
Battery		2900mAh
Radio Technology		2.4 to 2.2835 GHz ISM Band, Bluetooth 5.0, BLE
Expected Battery Life		≥20 hours of continuous operation, up to 70,000 scans per charge
Expected Charge Time		2.5 hours

Environmental

Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 70°C
Humidity	5% to 95% (non-condensing)
Ambient Light	0-100,000lux (natural light)
ESD	±16 KV (air discharge), ±8 KV (direct discharge)
Drop	Scanner: 1.8m, Cradle: 1.2m
Sealing	Scanner: IP64, Cradle: IP42

*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;

Specifications are subject to change without notice.

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