Newland AIDC
Scanning Made Simple

NVH220H

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.

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..

High Protection Industrial Structure Design

The NVH220H, 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 | Drop |

NVH220H

Performance

Image Sensor		1280 × 960 CMOS
Illumination		Direct: white & red light LED;
		Diffuse: Ring of blue LEDs;
Aiming		LED 532nm
Symbologies	2D	QR Code, PDF417, Micro QR, Data Matrix, AZTEC.
	1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code128, Code93, Code11, COOP25, GS1-128(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
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: 360º, Pitch: ±50º, Skew: ±50º
Field of View		Horizontal 41º, Vertical 31º

Physical

Interface		USB, RS232
Operating Voltage		5VDC±5%
Rated Power Consumption		2250mW (typical)
Current@5VDC	operating(typical)	450mA
	operating(max.)	475mA
Dimensions		67(W)×86(D)×170(H) mm
Weight		245g
Notification		Beep, LED indicator, Vibrator

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			1.8m
Sealing			IP64
Certifications			FCC,CE,ROHS,IEC63471
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℃; 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.