



**Newland AIDC**  
Scanning Made Simple



**NLS-HR42**

## INDUSTRIAL HANDHELD 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.

#### New Upgrade Of Optical Depth Of Field

It adopts the depth of field design which is more in line with the user's habits.

#### Easy to configure and update

By configuring the software NSet, the scanner's functions can be diversified configuration.

#### High-Resolution Image Sensor

Using 1280×960 megapixels image sensor, the scanner can decode higher precision barcodes.

#### High Protection Industrial Structure Design

The NLS-HR42 adopts a more suitable sound cavity design, high elastic trigger design, which is more ergonomic and has better pull feedback. And it is built into an IP42-sealed, which can withstand repeated falls from 1.8meters to the ground, with excellent reliability and stability.



2D Barcode



IP42



1D Barcode



NSet



Manufacturing



RS232



USB



# NLS-HR42

## Performance

Image Sensor		1280 × 960 CMOS
Illumination		White LED (GHD) Red LED (GAP)
Aiming		650nm laser diode
Symbologies	2D	QR Code, Micro QR Code, PDF 417, Data Matrix.
	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-HR42
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
Min. Symbol Contrast*		25%
Scan Angle**		Roll: 360°, Pitch: ±50°, Skew: ±50°
Motion Tolerance*		2m/s
Field of View		Horizontal 41°, Vertical 31°

## Physical

Interface		USB, RS232, PS/2
Operating Voltage		5VDC±5%
Rated Power Consumption		2220.8mW (typical)
Current@5VDC	Power consumption	401.5mA(Max)
	Idle	109mA
Dimensions		74(W) × 115(D) × 161(H) mm (max.)
Weight		173g
Notification		Buzzer, LED indicator, Vibrator

## Environmental

Operating Temperature	-20°C to 50°C
Storage Temperature	-40°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	1.8m
Sealing	IP42

## Certificates

Certificates & Protection	CE EMC Class B, FCC Part15 Class B, RoHS IEC62471, EN 60825-1:2014
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\*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.

Version: V2.0 2023/01/01

**CDG**

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and Supplies Ltd.

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