



## NLS-HR42-BT

### 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.

### New Upgrade Of Optical Depth Of Field

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

### Wireless Connectivity

Bluetooth 5.0 radio gives users the freedom to scan barcodes from up to 10 meters from the cradle, and the perks of faster data rate, better energy efficiency and much easier pairing over the Bluetooth wireless connection.

### 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 1.8 meters to the ground, with excellent reliability and stability.



2D Barcode



IP42



1D Barcode



NSet



Bluetooth



RS232



USB

# NLS-HR42-BT

## Performance

Image Sensor		1280 × 960 CMOS
Illumination		White LED
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-BT
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		4VDC±5%
Rated Power Consumption		2160mW (typical)
Current@4VDC	Power consumption	500mA
	Idle	45mA
	Sleep	19mA
Dimensions		Scanner: 74.0(W) ×115.0(D) ×161.0(H) mm    Cradle: 195(W) ×82.5(D) ×47.2(H) mm
Weight		Scanner: 230g    Cradle: 146g
Notification		Buzzer, LED indicator, Vibrator
Communication Distance		30m (line of sight)
Flash Memory		900KB
Battery		3200mAh
Radio Technology		2.4 to 2.2835 GHz ISM Band, Bluetooth 5.0, BLE
Expected Battery Life		≥26 hours of continuous operation, up to 44,000 scans per charge
Expected Charge Time		4 hours

## 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: V1.0

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