



Newland AIDC
Scanning Made Simple



NLS-HR2000

HANDHELD 2D BARCODE SCANNER

FEATURES

- **High-performance Versatile Decoding Capability**

Powered by AI-driven platform and Newland's latest self-developed of **UIMG®** decoding technology, the HR2000 delivers powerful, high-speed, and highly accurate barcode reading performance, capable of handling even challenging scanning scenarios with ease.

- **Cost-Effective Solution**

Combining excellent decoding performance, durability, and reliability, the HR2000 offers outstanding value for customers seeking the optimal balance between performance and investment.

- **Ready for GS1-Powered 2D Barcodes**

Fully supports GS1 Digital Link and all major GS1 2D output modes, the HR2000 enables a smooth migration from traditional 1D barcodes to next-generation retail and healthcare applications

- **Ergonomic and Modern Design**

Combining comfort, usability, and aesthetics, the HR2000 enhances the user experience while fitting seamlessly into modern retail settings.

- **Reliable and Durable**

With an IP52 rating and a 1.5m drop resistance, the HR2000 is built to withstand everyday use in retail, logistics, healthcare, and other demanding environments.



CMOS



1D Barcode



2D Barcode



USB



RS232



Drop



IP Sealing

NLS-HR2000

Performance

Image Sensor		600*800 CMOS
Illumination		White LED
Aiming		Red LED
Symbologies	1D	Code 11, Code 128, Code 39, GSI-128(UCC/ENA-128), AIM 128, ISBT 128, Codabar, Code 93, UPC-A, UPC-E, Coupon, GSI Composite, EAN-13, EAN-8, ISSN, ISBN, Interleaved 2 of 5, Matrix 2 of 5, Industrial 2 of 5, ITF-6, ITF-14, Standard 2 of 5, China Post 25, MSI-Plessey, Plessey, GSIDatabar(RSS), Code 49, Code 16K, Deutsche 14, Deutsche 12
	2D	PDF417, QR Code, Aztec, Data Matrix, Micro PDF417, Micro QR, MaxiCode, Dot code
	GSI	Digital Link
Resolution*		≥3mil
Typical Depth of Field*	EAN-13	40mm-370mm (13mil)
	Code 39	30mm-160mm (5mil)
	PDF 417	40mm-140mm (6.7mil)
	Data Matrix	20mm-170mm (10mil)
	QR Code	20mm-230mm (15mil)
Scan Angle**		Pitch: ±60°, Skew: ±60°, Roll: 360°
Field of View		Horizontal 45°, Vertical 34°
Min Symbol Contrast*		≥20%

Physical

Interface		USB, RS-232
Operating Voltage		5VDC±5%
Rated Power Consumption		950mW (typical)
Current@5VDC	Operating	190mA (typical), 300mA (max.)
	Idle	120mA
Dimensions (L×W×H)		117.5 (L)×67.5(W)×144mm(H)
Weight		137g
Notification		Beep, LED, Vibration

Environmental

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5%-95% (non-condensing)
ESD	±15 KV (air discharge); ±8 KV (contact discharge)
Ambient Light	0-100,000LUX
Drop	1.5m
Sealing	IP52

Certificates

Certificates & Protection	CE, FCC, KC, BIS, RoHS 2.0, IEC62471
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*Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample barcodes made by Newland.

**Test conditions: Scan Distance= (min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp.

2D: QR Code; 10 Bytes; Resolution=15mil; PCS=0.8.

Specifications are subject to change without notice.

Version: V2.0

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