



**Newland AIDC**  
Scanning Made Simple



## NLS-HR3000

HANDHELD 2D BARCODE SCANNER

### FEATURES

- High-performance Versatile Decoding Capability**

Powered by Newland's latest self-developed of **UIMG®** decoding technology, the HR3000 delivers powerful, high-speed, and highly accurate barcode reading performance, capable of handling even challenging scanning scenarios with ease.
- AI-Powered OCR Capability**

The NLS-HR3000 features advanced AI-driven OCR, enabling accurate and efficient recognition of passports, dates, and general alphanumeric characters for various application needs.
- Powerful Data Editing Capability**

Enables flexible customization of scanned data, with supporting tools to meet diverse application requirements.
- Support for Digimarc®**

The NLS-HR3000 is enabled with Digimarc® digital watermark technology, enabling faster, frictionless checkout experiences and meeting next-generation application needs, also, supporting Digimarc® with GSI Digital Link.
- Ready for GSI-Powered 2D Barcodes at the Point of Sale**

Future-proof retail systems with our scanner that supports GSI 2D and Digital Link standards, featuring built-in Modes 1, 2, and 3 for a seamless transition.
- Superior Scanning Range and Accuracy**

The HR3000 offers excellent depth of field, delivering a flexible and precise scanning experience across a wide range of applications, including logistics, warehousing, and retail.



CMOS



1D Barcode



2D Barcode



Postal



OCR



USB



RS232



Drop



IP Sealing

# NLS-HR3000

## Performance

Image Sensor		1280×800 (megapixel) CMOS
Illumination		White LED
Aiming		Laser
Symbologies	1D	Code 11, Code 128, Code39, 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, GSI Databar(RSS), Code 49, Code 16K, Deutsche 14, Deutsche 12
	2D	PDF417, QR Code, Micro QR, Data Matrix, Aztec, Maxi Code, Chinese Sensible Code, GM Code, Micro PDF417, Code One, DotCode
	OCR	Passport, European Driver License, Chinese ID Card, and China Travel Permit OCR (default); Optional OCR: date and general alphanumeric recognition.
	Postal	USPS Portnet, USPS Intelligent Mail, Royal Mail, USPS Planet, KIX Post, Australian Postal, Japan Post
	Digimarc®	Digital watermark technology
Resolution*		≥3mil
Typical Depth of Field*	EAN-13	35mm-510mm (13mil)
	Code 39	30mm-270mm (5mil)
	PDF 417	35mm-180mm (6.7mil)
	Data Matrix	20mm-190mm (10mil)
	QR Code	15mm-300mm (15mil)
Scan Angle**		Pitch: ±60°, Skew: ±60°, Roll: 360°
Field of View		Horizontal 48°, Vertical 30°
Min Symbol Contrast*		15%

## Physical

Interface		USB, RS-232
Operating Voltage		5VDC±5%
Rated Power Consumption		1175mW (typical)
Current@5VDC	Operating	235mA (typical), 260mA (max.)
	Idle	100mA
Dimensions (L×W×H)		115.7 (L)×67.5(W)×147mm(H)
Weight		140g
Notification		Beep, LED, Vibration

## Environmental

Operating Temperature	-20°C to 60°C (-4°F to 140°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, IEC60825
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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: V2.1

### Newland AIDC

Add: No.1 Rujiang West Rd.,  
Mawei, Fuzhou, Fujian 350001, China  
Tel: +86-591-83979500  
Fax: +86-591-83979216  
Email: info@newlandaidc.com  
Web: www.newlandaidc.com

### Asia Pacific

Add: 6 Raffles Quay #14-06  
Singapore 048582  
Email: info@newlandaidc.com

### Europe & Middle East

Add: Rolweg 25, 4104 AV Culemborg,  
The Netherlands  
Tel: +31 (0) 345 87 00 33  
Email: sales@newland-id.com  
Tech Support: tech-support@newland-id.com

### North America & Latin America

Add: 46559 Fremont Blvd.,  
Fremont, CA 94538, USA  
Tel: +1 510 490 3888  
Fax: +1 510 490 3887  
Email: info@newlandaidc.com