



**Newland AIDC**  
Scanning Made Simple



# NLS-HR2081

## HANDHELD 2D BARCODE SCANNER

### FEATURES

#### ○ Outstanding Performance

Equipped with an outstanding CPU, this CPU-based scanner can effortlessly capture high-density, high-volume and distorted barcodes printed on paper or displayed on screen.

#### ○ Elegant Appearance

Blending ergonomics and aesthetics in its design, the NLS-HR2081 not only ensures operator comfort and productivity for intensive handheld scanning but also meets the aesthetic needs of the O2O era.

#### ○ Cost-effective Solution

HR2081 provides a cost-effective data capture solution that allows customers to enjoy the capabilities of 2D barcode scanner for the price of ID scanner.

#### ○ Durable Construction

HR2081, built into an IP42-sealed and drop resistant (1.2m) housing with no moving parts, fortifies itself inside and out.



CMOS



ID Barcode



2D Barcode



RS232



USB



Drop



IP sealing



Retail

# NLS-HR2081

## Performance

Image Sensor		640×480 CMOS
Illumination		White LED
Aiming		Red LED (625nm)
Symbologies	ID	Code 11, Code 128, Code 39, GSI-128 (UCC/EAN 128), AIM 128, ISBT 128, Codabar, Code 93, UPC-A, UPC-E, Coupon, GSI Composite, EAN-8, EAN-13, ISBN/ISSN, Interleaved 2 of 5, Matrix 2 of 5, Industrial 25, ITF6, ITF-14, Standard 25, China Post 25, MSI Plessey, Plessey, GSI Databar (RSS).
	2D	PDF417, Micro PDF417, Micro QR, QR Code, Data Matrix, Aztec.
Resolution*		≥3mil
Typical Depth of Field*	EAN-13	50mm-260mm (13mil)
	Code 39	50mm-115mm (5mil)
	PDF 417	50mm-120mm (6.7mil)
	Data Matrix	35mm-125mm (10mil)
	QR Code	30mm-170mm (15mil)
Scan Angle**		Pitch: ±55°, Skew: ±55°, Roll: 360°
Field of View		Horizontal 45°, Vertical 34°
Min Symbol Contrast*		20%

## Physical

Interface		RS-232, USB
Operating Voltage		5VDC±5%
Rated Power Consumption		950mW (typical)
Current@5VDC	Operating	190mA (typical), 201mA (max.)
	Idle	35mA
Dimensions (L×W×H)		145×101×68mm
Weight		111g
Notification		Beep, LED

## 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 (direct discharge)
Drop	1.2m
Sealing	IP42

## Certificates

Certificates & Protection	FCC Part15 Class B, CE EMC Class B, RoHS
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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: V1.3

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