



HANDHELD 2D BARCODE SCANNER

NLS-HR2000

Scanning made simple.

The HR2000 is a corded 2D handheld scanner with a 640×480 CMOS engine that reads a wide range of 1D and 2D barcodes on paper or screen. Lightweight at 111 g, it connects over USB or optional RS-232 and delivers dependable, high-speed decoding for retail and light-industrial use.



NEWLAND AIDC, AVAILABLE THROUGH VERITRONICS

FEATURES

Reliable 1D & 2D Reading

A 640×480 CMOS engine reads a broad range of 1D and 2D symbologies on paper or screen with speed and accuracy.

Lightweight & Ergonomic

At just 111 g, the HR2000 stays comfortable through extended handheld scanning.

Flexible Connectivity

USB out of the box, with optional RS-232 for legacy host systems.

KEY SPECIFICATIONS

Image Sensor	640×480 CMOS	Dimensions (L×W×H)	117.5×144×67.5mm (4.63×5.67×2.66in)
Illumination	White LED	Drop	1.5m / 4.92ft
Aiming	Red LED	Sealing	IP52
Interface	USB, RS-232 (optional)	Resolution	≥3 mil (0.076mm / 0.003in)
Dimensions (L×W×H)	117.5×144×67.5mm (4.63×5.67×2.66in)	Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Weight	111g (3.92oz)		

Technical Specifications

NLS-HR2000

PERFORMANCE

Image Sensor	640×480 CMOS
Illumination	White LED
Aiming	Red LED
Symbologies	1D: Code11, Code128, Code39, GS1-128 (UCC/EAN-128), AIM128, ISBT128, Codabar, Code93, UPC-A, UPC-E, Coupon, GS1 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, GS1 Databar (RSS) 2D: PDF417, QR Code, Data Matrix, Aztec, Micro QR, Micro PDF417
Resolution*	≥3 mil (0.076mm / 0.003in)
Typical Depth of Field*	EAN-13 (13mil): 50–260mm (1.97–10.24in) · Code 39 (5mil): 50–120mm (1.97–4.72in) · PDF417 (6.7mil): 40–120mm (1.57–4.72in) · Data Matrix (10mil): 30–125mm (1.18–4.92in)
Scan Angle**	Pitch: ±60°, Roll: 360°, Skew: ±60°
Field of View	Horizontal 45°, Vertical 34°
Min. Symbol Contrast*	20% (Code128, 10mil)

PHYSICAL & ELECTRICAL

Interface	USB, RS-232 (optional)
Operating Voltage	5VDC±5%
Rated Power	1223mW (typical)
Current @5VDC	Operating 245.7mA (typ.), 248.9mA (max.); Idle 157.12mA
Dimensions (L×W×H)	117.5×144×67.5mm (4.63×5.67×2.66in)
Weight	111g (3.92oz)
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	±15kV (air discharge); ±8kV (direct discharge)
Drop	1.5m / 4.92ft
Sealing	IP52

CERTIFICATES

Certificates & Protection	CE, FCC, RoHS 2.0, IEC62471
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*Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample printed barcodes made by Newland. **Scan Distance=(min. DOF + max. DOF)/2; 2D: QR Code, 10 Bytes, 15mil, PCS=0.8.
Specifications are subject to change without notice. Version: V1.