



Newland AIDC
Scanning Made Simple



NLS-HR2000

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-HR2000 not only ensures operator comfort and productivity for intensive handheld scanning but also meets the aesthetic needs of the O2O era.

○ Cost-effective Solution

HR2000 provides a cost-effective data capture solution that allows customers to enjoy the capabilities of 2D barcode scanner for the price of 1D scanner.

○ Durable Construction

HR2000, built into an IP52-sealed and drop resistant (1.5m) housing with no moving parts, fortifies itself inside and out.



CMOS



1D Barcode



2D Barcode



RS232



USB



Drop



IP Sealing



Retail

NLS-HR2000

Performance

| | | |
|-------------------------|-------------|---|
| Image Sensor | | 640×480 CMOS |
| Illumination | | White LED |
| Aiming | | Red LED |
| Symbologies | 1D | Code 11, Code 128, Code 39, GS1-128(UCC/ENA-128), AIM 128, ISBT 128, Codabar, Code 93, 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, Aztec, Data Matrix, Micro PDF417, Micro QR. |
| Resolution* | | ≥3mil |
| Typical Depth of Field* | EAN-13 | 40mm-260mm (13mil) |
| | Code 39 | 30mm-150mm (5mil) |
| | PDF 417 | 30mm-120mm (6.7mil) |
| | Data Matrix | 20mm-125mm (10mil) |
| Scan Angle** | | Pitch: ±60°, Skew: ±60°, Roll: 360° |
| Field of View | | Horizontal 45°, Vertical 34° |
| Min Symbol Contrast* | | 20% (code128 10mil) |

Physical

| | | |
|-------------------------|-----------|-----------------------------------|
| Interface | | RS-232 (Optional), USB |
| Operating Voltage | | 5VDC±5% |
| Rated Power Consumption | | 1223mW (typical) |
| Current@5VDC | Operating | 245.7mA (typical), 248.9mA (max.) |
| | Idle | 157.12mA |
| Dimensions (L×W×H) | | 117.5×144×67.5mm |
| Weight | | 111g |
| 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 (direct discharge) |
| Drop | 1.5m |
| Sealing | IP52 |

Certificates

| | |
|---------------------------|-----------------------------|
| Certificates & Protection | CE, FCC, RoHS 2.0, IEC62471 |
|---------------------------|-----------------------------|

*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: V1.1

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