# NLS-HR2081

## 2D Handheld Barcode Scanner

CMOS | 1D | 2D
USB | RS-232 | 1.2m DROP
IP42

## Features

**◨ Outstanding Performance**

Equipped with a 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**

The NLS-HR2081 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**

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

## Application Scenarios

O2O applications, purchase-sales-inventory management, ticket/voucher management, office automation.

## 2D Handheld Barcode Scanner

| Performance | Image Sensor | | 640×480 CMOS |
|---|---|---|---|
| | Illumination | | White LED |
| | Aiming | | Red LED (625nm) |
| | Symbologies | 2D | PDF417, Micro PDF417, Micro QR, QR Code, Data Matrix, Aztec. |
| | | 1D | Code 11, Code 128, Code 39, GS1-128 (UCC/EAN 128), AIM 128, ISBT 128, Codabar, Code 93, UPC-A, UPC-E, Coupon, GS1 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, GS1 Databar (RSS). |
| | Resolution* | | ≥3mil (Code 128) |
| | 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° (QR 15mil) |
| | | Roll | 360° (QR 15mil) |
| | | Skew | ±55°(QR 15mil) |
| | Field of View | | Horizontal 45°, Vertical 34° |
| | Min. Symbol Contrast | | 20% |
| Physical | Interfaces | | RS-232, USB |
| | Dimensions (L×W×H) | | 145×101×68mm |
| | Weight | | 111g |
| | Notification | | Beep, LED indicator |
| | Operating Voltage | | 5VDC± 5% |
| | Rated Power Consumption | | 950mW (typical) |
| | Current @ 5VDC | Operating | 190mA (typical), 201mA (max.) |
| | | Idle | 35mA |
| Environmental | Operating Temperature | | -20℃ to 60℃ (-4°F to 140°F) |
| | Storage Temperature | | -40℃ to 70℃ (-40°F to 158°F) |
| | Humidity | | 5% ~ 95% (non-condensing) |
| | ESD | | ±15 KV (air discharge); ±8 KV (direct discharge) |
| | Drop | | 1.2m |
| | Sealing | | IP42 |
| Certifications | | | FCC Part15 Class B, CE EMC Class B |

*Test conditions: T=23☒ ; Illumination=300lux using incandescent lamp; sample barcodes made by Newland.

**Test conditions: Scan Distance= (min. DOF + max. DOF)/2; T=23☒ ; Illumination=300lux using incandescent lamp; 2D: QR Code; 10 Bytes; Resolution=15mil; PCS=0.8.