



NLS-FR80

FIXED MOUNT BARCODE SCANNER

FEATURES

○ Superior Scanning Performance

Armed with Newland's **UIMG®+AIBD** technology, this scanner can scan 1D and 2D barcodes and delivers stunning performance on decoding the wrinkled, reflective and curved barcodes.

○ Powerful OCR Recognition Capability

Equipped with advanced OCR technology, the scanner is ideal for applications requiring accurate data capture from IDs and documents. It instantly scans and extracts text with high accuracy.

○ Advanced Multi-core Processing Platform

Integrated with a multi-core processing platform, the NLS-FR80 offers powerful computing capabilities, ensuring faster and more stable decoding performance.

○ Multiple Status indicators

6 kinds of status indicators show current working status of the scanner, including decoding, configuration, communication and abnormal status.

○ Large Scan Window

Large scan window meets demands of goods with different sizes.

○ High Motion Tolerance

With high motion tolerance, the scanner can quickly capture moving goods.

○ Sound Effect & Volume keys

Sound effect and volume keys are provided for users to select one suitable for their application environment.



CMOS



1D Barcode



2D Barcode



OCR



USB



RS232



IP Sealing

NLS-FR80

Performance

Image Sensor	1280 * 1088 CMOS
illumination	Red LED (610nm~620nm)
Symbologies	1D: Code 11, Code 128, Code 39, GS1-128 (UCC/EAN128), AIM 128, ISBT 128, CodaBar, Code 93, UPC-A/UPC-E, Coupon, EAN-13, EAN-8, ISSN, ISBN, Interleaved 2/5, Matrix 2/5, Industrial 2/5, ITF-14, ITF-6, Standard 2/5, China post 25, MSI-Plessey, Plessey, GS1 Composite, GS1 Databar (RSS) 2D: QR, DataMatrix, PDF417, Aztec OCR: Passport OCR, Chinese ID Card, China Travel Permit OCR Digimarc: Digital watermark technology Resolution ¹ : ≥3mil (1D) Typical Depth of Field ¹ : 50mm~90mm (5mil) Min. Symbol Contrast ² : 15% Scan Angle ² : Roll: 360°, Pitch: ±50°, Skew: ±50° Field of View: Horizontal 42.4°, Vertical 36°
Resolution ¹	≥3mil (1D)
Typical Depth of Field ¹	50mm~90mm (5mil)
Min. Symbol Contrast ²	15%
Scan Angle ²	Roll: 360°, Pitch: ±50°, Skew: ±50°
Field of View	Horizontal 42.4°, Vertical 36°

Physical

Interface	USB, RS-232
Operating Voltage	5 VDC±5%
Current@5VDC ³	Operating: 280mA (typical), 500mA (max.) Idle: 155mA
Dimensions	Without base: 151 (W) ×141.5 (H) ×97.5 (D) mm (max.) With base: 151 (W) ×156.5 (H) ×108.5 (D) mm (max.)
Weight	549g (without base), 681g (with base)
Notification	Speaker, LED

Environmental

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 95% (non-condensing)
ESD	±15 KV (air discharge); ±8 KV (direct discharge)
Sealing	IP52

Certificates

Certificates & Protection	FCC Part 15 Class B, CE EMC Class B
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Accessories

Cable	Optional	2m/3m USB or RS-232 data cable, used to connect the scanner to a host device.
Power Adapter	Standard	DC5V power adapter to power the scanner.
Base	Standard	Used to install the scanner on a desktop

1 Depth of Field: T=23°C; Illumination=300lux using incandescent lamp; sample barcodes made by Newland.

2 Scan Angle: Scan Distance=(min. DOF + max. DOF)/2; 1D: EAN-13; PCS=1; sample barcodes made by Newland.

3 Operating Current: Scan Distance=(min. DOF + max. DOF)/2; test in the normal mode

Specifications are subject to change without notice.

Version: V2.0

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