



Newland AIDC
Scanning Made Simple



NLS-FR4080

DESKTOP BARCODE SCANNER

FEATURES

○ Quick to Switch Mode

The Switch at the top of the scanner allows users to swiftly toggle between the Normal mode and High Motion Tolerance mode.

○ Superior Motion Tolerance

Exceptional motion tolerance (2.5m/s) and large FOV (horizontal 51°, vertical 32°) enhance user experience.

○ IP52-rated Sealing

An IP52-rated seal protects the scanner against the ingress of dust, water and other contaminants

○ Snappy On-screen Barcode Capture

Armed with Newland's sixth-generation of **UIMG[®]** technology, this CPU-based scanner is capable of reading 1D as well as high-volume 2D barcodes on a screen covered with protective film.

○ 1.2m Drop Resistance

The scanner withstands multiple 1.2m drops to concrete (for six sides, one drop per side).

○ IR Trigger

The IR sensor in the scanner enables speedy capture of barcodes presented to it, markedly increasing throughput and productivity.



CMOS



1D Barcode



2D Barcode



USB



RS232



IR



Retail

NLS-FR4080

Performance

Image Sensor		1280×800 CMOS
Illumination		White LED
Symbologies	2D	PDF417, Data Matrix, QR Code, Micro QR Code, Aztec, etc.
	1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128, Code 93, ITF-6, ITF-14, Interleaved 2 of 5, Industrial 25, Standard 25, Matrix 2 of 5, GSI Databar, Code 39, Code 11, MSI-Plessey, Plessey, etc.
Resolution*		≥3mil
Typical Depth of Field*	EAN-13	10-210mm (13mil)
	QR Code	10-180mm (15mil)
Motion Tolerance*		2.5m/s
Scan Angle**		Pitch: ±50°, Roll: 360°, Skew: ±45°
Field of View		Horizontal 51°, Vertical 32°
Min Symbol Contrast*		25%

Physical

Interface		RS-232, USB
Operating Voltage		5VDC±5%
Rated Power Consumption		1041mW (typical)
Current@5VDC	Operating	219mA (typical)
Dimensions		83(W)×81(D)×148(H)mm
Weight		293g
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		±14 kV (air discharge); ±8 kV (direct discharge)
Drop		1.2m drops to concrete (for six sides, one drop per side)
Sealing		IP52

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 printed barcodes made by Newland.

**Test conditions: Scan Distance= (min. DOF + max. DOF) / 2; T=23°C; Illumination=300lux using incandescent lamp;

ID: EAN-13 (13mil).

Specifications are subject to change without notice.

Version: V1.2

Newland AIDC

Add: No.1 Rujiang West Rd.,
Mawei, Fuzhou, Fujian 350001, China
Tel: +86-591-83979500
Fax: +86-591-83979216
Email: info@nlscan.com
Web: www.newlandaidc.com

North America&Latin America

Add: 46559 Fremont Blvd.,
Fremont, CA 94538, USA
Tel: +1 510 490 3888
Fax: +1 510 490 3887
Email: info@nlscan.com
Web: www.newlandamerica.com

Europe & Middle East

Add: Rolweg 25, 4104 AV Culemborg,
The Netherlands
Tel: +31 (0) 345 87 00 33
Email: sales@newland-id.com
Tech Support: tech-support@newland-id.com
Web: www.newland-id.com

Asia Pacific

Taiwan:
Add: 7F-6, No. 268, Liancheng Rd.,
Jhonghe Dist. 235, New Taipei City, Taiwan
Tel: +886 2 7731 5388
Email: info@newland-id.com.tw