



**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<sup>®</sup>** 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

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