



Newland AIDC
Scanning Made Simple



NLS-FR42

WIRED 2D DESKTOP SCANNER

FEATURES

- **Snappy On-screen Barcode Capture**
Armed with Newland's latest **UIMG[®]** technology, this scanner is capable of reading 1D as well as high-volume 2D barcodes on a screen covered with protective film.
- **Superior Motion Tolerance**
Exceptional motion tolerance (2m/s) and large FOV (horizontal 62°, vertical 48°) enhance user experience.
- **IP52-rated Sealing**
An IP52-rated seal protects the scanner against the ingress of dust, water and other contaminants
- **1.5m Drop Resistance**
The scanner withstands multiple 1.5m 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



Drop



IP Sealing



Retail

NLS-FR42

Performance

Image Sensor		640×480 CMOS
Illumination		White LED
Symbologies	2D	PDF417, QR Code, Data Matrix, Micro QR, etc..
	ID	Code 11, Code 128, Code 39, Code 32 (Italian Pharma Code), GS1-128, AMI 128, Codabar, Code 93, UPC-A, UPC-E, EAN-13, EAN-8, ISSN, ISBN, Interleaved 2 of 5, Matrix 2 of 5, Industrial 2 of 5, ITF-14, ITF-6, Standard 2 of 5, MSI-Plessey, Plessey, GS1 Databar, etc.
Resolution*		≥3mil
Typical Depth of Field*	EAN-13	5mm-145mm (13mil)
	QR Code	5mm-195mm (15mil)
Scan Angle**		Pitch: ±55°, Roll: 360°, Skew: ±65°
Field of View		Horizontal 62°, Vertical 48°
Min Symbol Contrast*		25%
Motion Tolerance		2m/s
Scan Mode		Sense mode, continuous mode

Physical

Interface	USB
Operating Voltage	5VDC±5%
Operating Current	85mA (typical), 92mA (max.)
Dimensions (L×W×H)	82.0×77.0×146.0mm
Weight	246g
Notification	Beep, LED
Light Intensity	0-15000lux (screen barcode); 0-120000lux (paper barcode)

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	±12 KV (air discharge); ±8 KV (contact discharge)
Drop	1.5m/4.9ft
Sealing	IP52

Certificates

Certificates & Protection	IEC 62471, RoHS, CE, FCC
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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;

2D: QR Code; 10 Bytes; min. width 15mil; PCS=0.8.

Specifications are subject to change without notice.

Version: 1.1

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