



**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

#### 15m 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		640x480 CMOS
Illumination		White LED
Symbologies	2D	PDF417, QR Code, Data Matrix, Micro QR, etc..
	1D	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: $\pm 55^\circ$ , Roll: $360^\circ$ , Skew: $\pm 65^\circ$
Field of View		Horizontal $62^\circ$ , Vertical $48^\circ$
Min Symbol Contrast*		25%
Motion Tolerance		2m/s
Scan Mode		Sense mode, continuous mode

## Physical

Interface	USB
Operating Voltage	5VDC $\pm 5\%$
Operating Current	85mA(typical), 92mA(max.)
Dimensions (LxWxH)	82.0x77.0x46.0mm
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	$\pm 12$ KV (air discharge); $\pm 8$ KV (contact discharge)
Drop	1.5m/4.9ft
Sealing	IP52

## Certificates

Certificates & Protection	IEC 62471. RoHSCE, 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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