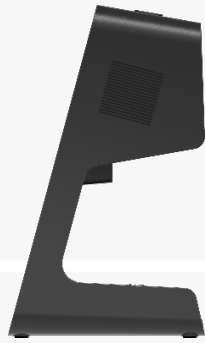




Newland AIDC  
Scanning Made Simple



# NLS-FR42- BT

## WIRELESS 2D DESKTOP SCANNER

### FEATURES

#### Outstanding Performance

The FR42-BT is a barcode scanning powerhouse. The megapixel camera allows users to scan 1D and 2D barcodes, including barcodes displayed in a variety of filmed screens, with impressive speed and ease.

#### Reliable and Stable Wireless Communication

Adopting Bluetooth 5.0 dongle which is strong anti-interference and stable to transmit the data.

#### Superior Motion Tolerance

Exceptional motion tolerance (1.8m/s) and large FOV (horizontal 62 °, vertical 54°) enhance user experience.

#### New Generation Product in Simple Appearance

The first wireless desktop products by Newland whose integrated structure design can be placed on the desktop to scan the code without holding it, and it can also be flexibly grasped on both sides.

#### No Fear of Power off

The battery can be replaced easily and charged respectively.

#### Durable Construction

The FR42-BT, built into an IP 52-sealed and drop resistant ( 15m) housing with no moving parts fortifies itself inside and out, is suitable for the tough outdoor environments.



CMOS



1D Barcode



2D Barcode



USB



Drop



IP Sealing



Bluetooth



Retail

# NLS-FR42- BT

## Performance

Image Sensor		1080*1280 CMOS
Illumination		White LED
Symbologies	2D	PDF417, QR Code, Data Matrix, Micro QR, MICRO PDF 417, GM CODE, Hanxin Code, Maxicode, Aztec, Code ONE
	1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128, Code93, ITF-6, ITF-14, 1D Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, GS1 Databar, Code 39, Code32(Italian Pharma Code), Code 11, MSI-Plessey, Plessey
Resolution*		3mil
Typical Depth of Field*	EAN-13	10mm-130mm (13mil)
	Code 39	35mm -80mm (5mil)
	QR Code	15mm - 110mm (15mil)
Scan Angle**		Pitch: $\pm 60^\circ$ , Roll: $360^\circ$ , Skew: $\pm 65^\circ$
Field of View		Horizontal $62^\circ$ , Vertical $5^\circ$
Min Symbol Contrast*		5%
Motion Tolerance		1.8m/s

## Wireless

Radio Technology		Bluetooth 5.0
Communication Distance	***	Bluetooth 5.0 : 50m/164ft (direct line of sight in the open space)
Battery		2000 mAh lithium-ion battery
Expected Charge Time		5 hours
Expected Battery Life		9.5 hours of continuous operation (scan once per 3 seconds) 16 hours of continuous operation (scan once per 10 seconds)

## Physical

Interface		Bluetooth 5.0 BLE and HID, Bluetooth Dongle CDC/KBW/HID-POS
Operating Voltage		5VDC $\pm 5\%$
Dimensions (LxWxH)		82.0x77.0x46.0mm
Weight		209 g
Notification		Beep, LED

## Environmental

Operating Temperature		-10°C to 55°C (14°F to 131°F)
Storage Temperature		-40°C to 70°C (-40°F to 158°F)
Battery Charge Temperature		0°C to 45°C (32°F to 113°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, RoHS, CE RED (BT only), FCC ID (BT only), IEC 60068-2-31, IEC 60529
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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;

1D: EAN-13 (13mil).

\*\*\* Communication Distance:

- 1, There needs to be a large open space longer than four meters without visible obstacles (buildings, cars, furniture, human bodies and walls, etc.) and serious interference from 2.4G band equipment between the host and the scanner.
- 2, The host and the scanner must be separated from the large-area conductor (earth, metal plate, etc.) by more than 50cm in all directions.
- 3, The communication distance is valid when the host receives the correct barcode 10 times after manually scanning test barcodes (EAN13 13mil) in real-time mode.

Specifications are subject to change without notice.

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### Newland AIDC

Add: No.1 Ruijiang West Rd.,  
Mawei, Fuzhou, Fujian 350001, China  
Tel: +86-591-83979500  
Fax: +86-591-83979216  
Email: info@nlsan.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@nlsan.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