



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 IP52-sealed and drop resistant (1.5m) 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, ID 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: ±60°, Roll: 360°, Skew: ±65°
Field of View	Horizontal 62°, Vertical 54°
Min Symbol Contrast*	15%
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±5%
Dimensions (L×W×H)	82.0×77.0×146.0mm
Weight	209g
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	±12 KV (air discharge); ±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

*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).

***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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