

# 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®** 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.

### Application Scenarios

Cashier counters in department stores/supermarkets/convenience stores, ticket validation, customer service desks, O2O applications, etc.

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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, GS1 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%		
Mechanical/ Electrical	Interfaces	RS-232, USB		
	Dimensions	83(W)×81(D)×148(H)mm		
	Weight	293g		
	Notification	Beep, LED indicator		
	Rated Power Consumption	1041mW (typical)		
	Operating Voltage	5VDC±5%		
	Current@5VDC	Operating	219mA (typical)	
	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		
Certifications	FCC Part15 Class B, CE EMC Class B			
Accessories	Cable	USB	Used to connect the scanner to a host device.	
		RS-232	Used to connect the scanner to a host device.	
	Power Adapter	DC5V power adapter to provide power for the scanner with RS-232 cable.		

\*Test conditions: T=23°C. Illumination=300lux using incandescent lamp; sample 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; Resolution=15mil; PCS=0.8.

Specifications are subject to change without notice.

Version: V1.1

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