

NLS-FM430

Fixed Mount Barcode Scanner



Features

■ IR/Light Triggers

The combination of IR sensor and light sensor exhibits an improved sensitivity in activating the scanner to scan barcodes as they are presented, to achieve higher throughput and productivity.

■ Automatic Exposure Control (AEC)

The sensor in the NLS-FM430 automatically adjusts the supplementary lighting duration based on the light reflected off barcode.

■ IP54-sealed Housing

The NLS-FM430 is environmentally sealed to an IP54 rating to prevent dust, moisture and other contaminant from entering it.

■ Unmatched Reading Performance

Armed with Newland's fifth-generation of **UIMG®** technology, the NLS-FM430 is capable of reading 1D as well as high-volume 2D barcodes on the screen covered with protective film.

■ Highly Visible Laser Aimer

The NLS-FM430 provides a laser-generated crosshair aiming pattern that is clear and bright even in bright sunlight, ensuring first time accurate aim.

■ 1.5m Drop Resistance

The scanner withstands multiple 1.5m drops to concrete (for six sides, three drops per side).

Application Scenarios

Self-service cabinets used in e-commerce, express delivery services and smart homes; ticket validators; kiosks; barrier gates; O2O applications.

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SCANNING MADE SIMPLE

Performance	Image Sensor		1280 * 800 CMOS	
	Illumination		White LED	
	Aiming		650nm Laser or 518nm green LED	
	Symbologies	2D		PDF417, QR Code, Data Matrix, AZTEC, CSC, Maxicode, Micro QR, Micro PDF417, GM, Code One, etc.
		1D		EAN-13, EAN-8, UPC-A, UPC-E, Code 128, Code 39, Codabar, UCC/EAN 128, RSS, ITF, ITF-14, ITF6, Standard 25, Matrix 25, COOP 25, Industrial 25, Plessey, MSI Plessey, Code 11, Code 93, Code 49, Code 16K, etc.
	Resolution*		≥3mil	
	Typical Depth of Field*	EAN-13		55-360mm (13mil)
		Code 39		70-180mm (5mil)
		PDF417		55-160mm (6.7mil)
		Data Matrix		50-170mm (10mil)
		QR Code		40-210mm (15mil)
	Scan Mode			Sense mode, Continuous mode, Level mode, Pulse mode
	Scan Angle**			Roll: 360°, Pitch: ±55°, Skew: ±55°
	Field of View			Horizontal 51°, Vertical 32°
	Min. Symbol Contrast*			25%
Mechanical/ Electric	Interface		RS-232, USB	
	Dimensions		41.5(W)×49.5(D)×24.3(H)mm	
	Weight		75g	
	Notification		Beep, LED indicator	
	Rated Power Consumption		1622mW (typical)	
	Operating Voltage		5VDC±5%	
	Current @ 5VDC	Operating		276.8mA (typical), 322.7mA (max.)
		Standby		83.3mA
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% to 95% (non-condensing)	
	ESD		±14 kV (air discharge), ±8 kV (direct discharge)	
	Drop		1.5m	
	Sealing		IP54	
Certifications			FCC Part15 Class B, CE EMC Class B, RoHS, IEC60825, IEC62471, KC	
Environmental	Cable	USB	Used to connect the NLS-FM430 to a host device.	
		RS-232	Used to connect the NLS-FM430 to a host device.	
	Power Adapter		DC5V adapter to power the NLS-FM430 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.

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