



# 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 ID 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).



1D Barcode



2D Barcode



USB



RS232



Drop



IP sealing

# NLS-FM430

Performance		1280 * 800 CMOS
Illumination		White LED
Aiming		650nm Laser diode 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)
Min. Symbol Contrast*		25%
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°

Physical		RS-232, USB
Operating Voltage		5VDC±5%
Rated Power Consumption		1622mW (typical)
Current@5VDC	Operating	276.8mA (typical), 322.7mA (max.)
	Standby	83.3mA
Dimensions		41.5(W)×49.5(D)×24.3(H)mm
Weight		56g
Notification		Beep, LED indicator

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

Certificates		
Certificates & Protection		FCC Part15 Class B, CE EMC Class B, RoHS, IEC60825, IEC62471, KC

Accessories		
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 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; Resolution=15mil; PCS=0.8.

Specifications are subject to change without notice.

Version: V1.4

