

NLS-FM420
 NLS-FM420-MS-30
 NLS-FM420-MS-38

Fixed Mount Barcode Scanner



FM420



**FM420-MS-30
 FM420-MS-38**

Designed for OEM applications, this high-performance fixed mount barcode scanner can easily be integrated into various devices such as kiosks, ticketing machines, (reverse) vending machines, mobile ticket validators and many more.

Features

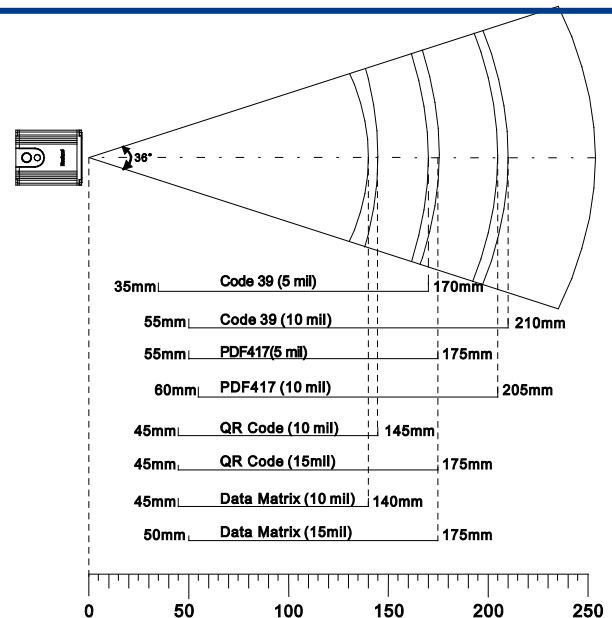
● **Ease of Integration**

This compact, lightweight barcode scanner comes in sturdy IP54-rated housing and allows ease of integration into a variety of devices.

● **Sophisticated Technology**

Its core technology **UIMG®**, solely developed by Newland, comprises optical system, CMOS system, digitizer, decoder, image processor, embedded system, etc. The device demonstrates an unprecedented decoding capability on 1D symbologies. Users can create their own apps with our development tools to identify particular images and symbols.

Depth of Field



Specifications

	FM420	FM420-MS-30	FM420-MS-38
Performance			
Image Sensor		CMOS	
Resolution		752 * 480	
Interface	USB1.1/RS232	USB1.1	RS232
Symbologies	PDF 417, QR Code (Model 1/2), Data Matrix (ECC200, ECC000, 050, 080, 100,140), Aztec, Maxicode, LP Code, Chinese Sensible Code, etc.		
	Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN/ISSN, Code 93, etc.		
Scan Angle**	Pitch	45°	
	Roll	360°	
	Skew	45°	
Reading Precision		≥ 3mil	
Light Source		LED (617.5 nm – 633.5 nm)	
Light Intensity		320 LUX (130 mm)	
Depth of Field		35 mm ~ 210 mm	
Print Contrast Signal		≥ 25%	
Mechanical/Electrical			
Power Consumption		1.75W	
Operating Voltage		DC 5 V	
Current	Maximum Current	420 mA	
	Operating Current	260 mA	
	Idle Current	1 mA	
Dimensions (L x W x H)	49.0 *37.0 * 25.0 mm		49.0 *41.4 * 27.0 mm
Weight	70g		85g
Environmental			
Operating Temperature	-5°C - +45°C		-5°C - +80°C
Storage Temperature		-40°C - +60°C	
Humidity		5% - 95% (non-condensing)	
Ambient Light		0 ~ 100,000 LUX	
Certifications			
FCC Part15 Class B, CE EMC Class B			
Accessories			
Cable	RS232	Used to connect the FM420 to a host device; equipped with a power connector.	
	USB	Used to connect the FM420 to a host device.	
Power Adapter ADP50		Used to provide power for the FM420. Output: DC5V, 0.5A; Input: AC100~240V, 50~60Hz.	

** Test conditions:

Code 39,4 Bytes; Resolution=10mil; W:N=3:1; PCS=1.0; Barcode Height=12mm; Scan Distance=100mm; T=23°C; Illumination=200 LUX

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