FM420

Fixed Mount Barcode Scanner

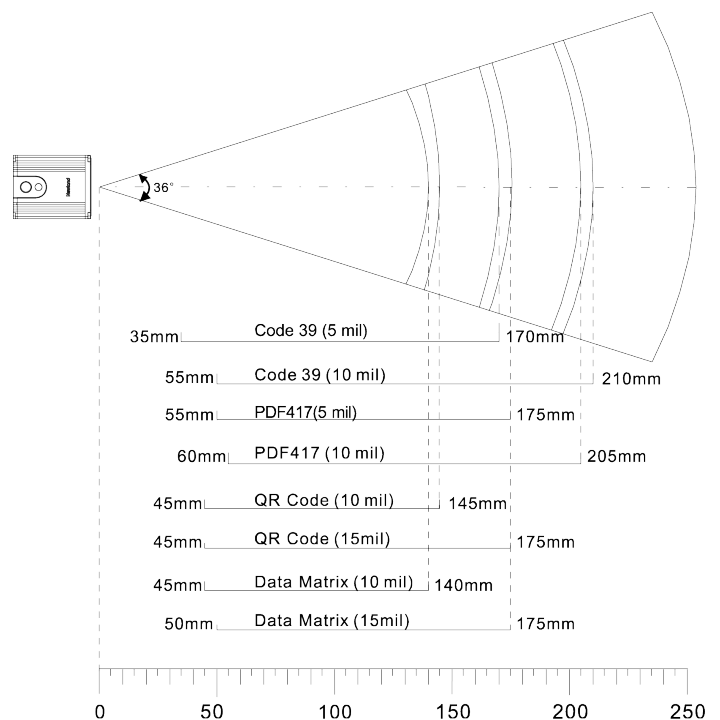|				
1D	2D	CMOS	USB	RS232

Features

◆ **Ease of integration.**

Compact and easy to integrate design. The small form factor enables easy integration into various solutions. This 1D/2D fixed barcode scanner has an IP54 rating making it dust & water-proof.

◆ **Advanced technology.**

Includes core-technology UIMG, which is independently designed and manufactured by Newland Auto-ID. UIMG technology includes the optical, CMOS, digitizer, decoder, image processing & embedded systems. The scanner supports all global standard 1D and 2D barcode symbologies. Its' reading performance reaches and exceeds global standards. By using the accessories provided, the user can ideally set up the scanner to its user environment.

36°

35mm	Code 39 (5 mil)	170mm
55mm	Code 39 (10 mil)	210mm
55mm	PDF417(5 mil)	175mm
60mm	PDF417 (10 mil)	205mm
45mm	QR Code (10 mil)	145mm
45mm	QR Code (15mil)	175mm
45mm	Data Matrix (10 mil)	140mm
50mm	Data Matrix (15mil)	175mm

0   50   100   150   200   250

Application Scenarios

Designed for OEM applications, this high performance fixed 1D/2D CMOS scan engine can easily be integrated into various solutions such as kiosks, ticketing machines, (Reverse) Vending Machines, mobile ticket validators and many more.

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Performance	Image Sensor		CMOS
	Resolution		752×480
	Interface		RS232 / USB 1.1
	Symbologies**	1D	Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN/ISSN, Code 93, etc.
		2D	PDF417, QR Code(Model 1/2), DataMatrix (ECC200, ECC000, 050, 080,100,140), Aztec, Maxicode, etc.
	Reading Precision		≥ 5mil
	Sensitivity	Pitch	±60°@ 0°Roll and 0° Skew
		Roll	360°@ 0°Pitch and 0° Skew
		Yaw	±60°@ 0°Roll and 0° Pitch
	CMOS Acquisition		60 fps
	Light Source		LED(617.5 nm – 633.5 nm)
	Light Intensity		320 LUX (130 mm)
	Depth of Scan Field		35mm ~ 210 mm
	Print Contrast Signal		≥ 30%
Mechanical/ Electrical	Current	Max	420mA
		Working	260mA
		Idle	1mA
	Voltage		DC 5 V
	Power Consumption		1.75W
	Dimensions		49.0(L)*37.0(W)*25.0(H) mm
	Weight		70g
Environmental	Operating Temperature		-5℃~+45℃
	Storage Temperature		-40℃~+60℃
	Humidity		5%~95% (non-condensing)
	Ambient Light		0 ~ 100000 lux
Certificates			FCC Part15 Class B, CE EMC Class B
Accessories	USB Cable		This cable connect to the USB Slave port of FM420 with a RJ45 port. With a standard USB Slave port to connect to standard USB Host port.
	RS232 Cable		This cable connect to the RS232 port of FM420 with a RJ45 port. With a standard female RS232 port to connect to standard male RS232 port. With a power port to accept power adapter supply.
	Power Adapter		The power adapter for FM420 by the CBL-FM420R. Output: DC 5V, 2A; Input: AC100~240V, 50~60HZ.

**The length of the skew into FM420 must be less than 5 mm.

Specifications are subject to change without notice.