



FM100

1D CCD Fixed Scan Engine



Designed for OEM applications, this high performance fixed CCD scan engine can easily be integrated into various solutions such as kiosks, ticketing machines, (Reverse) Vending Machines and many more.

Product Features

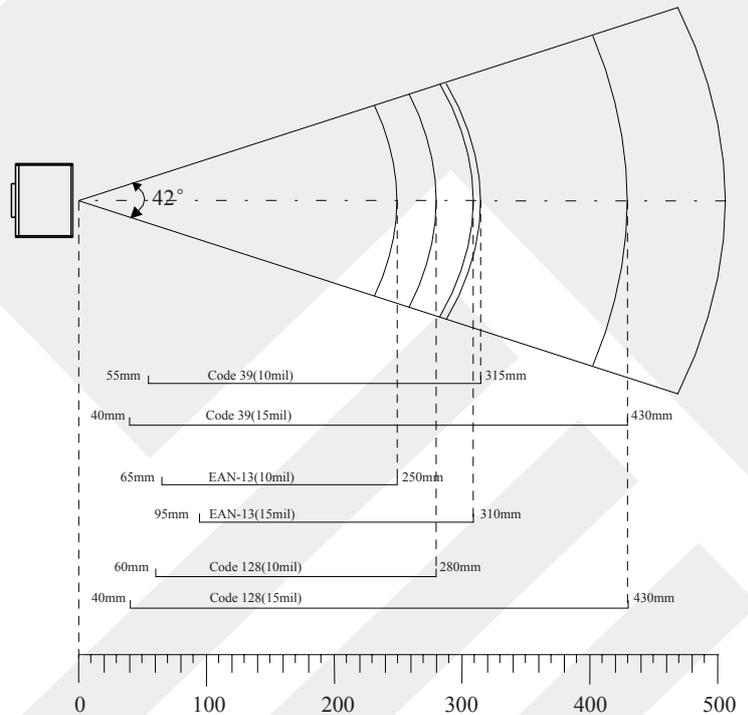
- **Ease of integration**

Compact and easy to integrate design. The small form factor enables easy integration into various solutions. The FM100 has an IP54 rating meaning it is dust -and water resistant.

- **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 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.

Decode Zones





FM100 Specifications

Performance

Interface	RS232, USB 1.1
Image Sensor	CCD
Resolving	2500
Symbologies	Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN/ISSN, Code 93, UCC/EAN-128, GS1 Databar, etc.
Precision	≥ 5mil (Condition:PCS=0.9, testing code: Code 39)
Light Source	LED(622 nm - 628 nm)
Light Intensity	265 LUX (130 mm)
Depth of Scan Field	40mm-430mm
Print Contrast Signal	≥ 30%
Sensitivity**	Pitch ±65°@ 0°Roll and 0° Skew
	Roll ±30°@ 0°Pitch and 0° Skew
	Skew ±60°@ 0°Roll and 0° Pitch
Illumination	0 ~ 100,000 LUX

Mechanical/ Electrical

Power Consumption	1.25 W
Voltage	DC 5 V
Current	Max 250mA
	Working 170mA
Weight	Idle 65mA
	70g

Environment

Operate Temperature	-5°C - +45°C
Storage Temperature	-40°C - +60°C
Humidity	5% - 95% (non-condensing)

Certificates

FCC Part15 Class B, CE EMC Class B

**Test Condition:

Code39: 3 Bytes ; Resolution = 10mil; W:N = 3:1 ; PCS = 0.8 ;
Barcode Height = 11mm; Distance = 120mm; T=23°C; Illumination= 200 LUX

Accessories

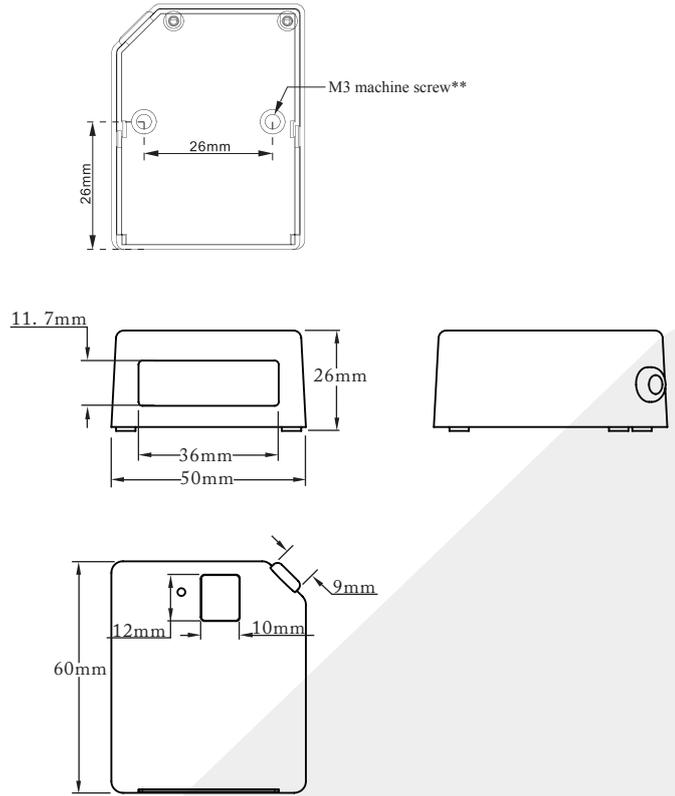
Flex Cable

RS232 Cable	This cable connect to the RS232 port of FM100 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.
USB Cable	This cable connect to the USB Slave port of FM100 with a RJ45 port. With a standard USB Slave port to connect to standard USB Host port.

Power

Power Adapter	The power adapter for FM100 by the CBL-FM100R. Output: DC 5V, 2A; Input: AC100~240V, 50~60HZ.
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Dimensions (mm)



**Note: The length of the screw into FM100 must be less than 5 mm.

Applicable Accessories

• Integration Manual / Programming Guide

A manual to explain the user the basics of the scanner, how to integrate it and how to configure it. Furthermore, it enables the user to set the scanner to the specific wishes regarding scanning modes, readable barcodes and barcode formats.

Revisions



Version	Description	Date
Pre-release version		20100707

