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.
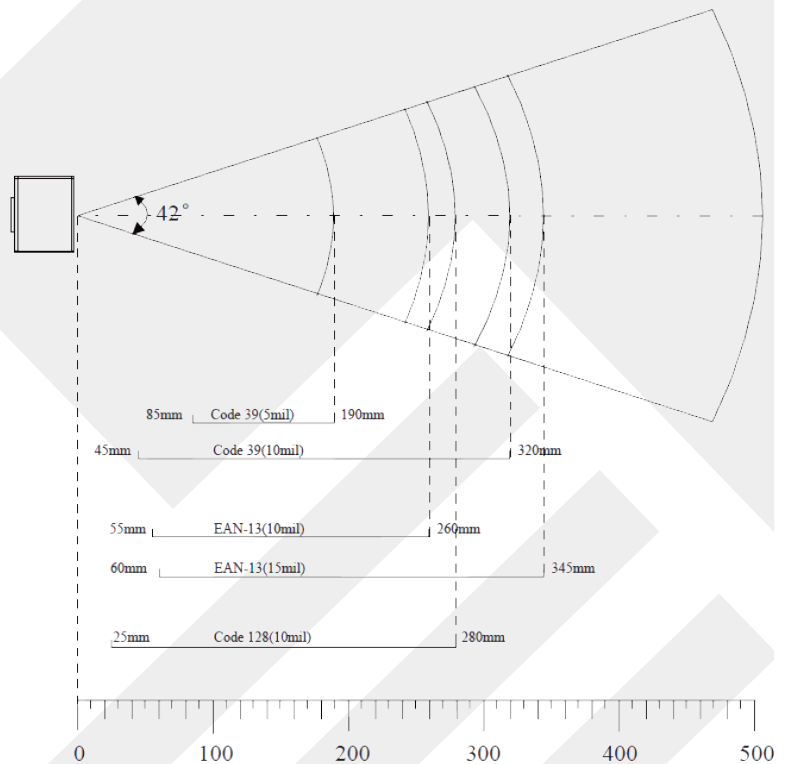
Product Features

- **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.
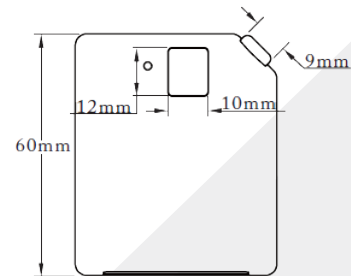
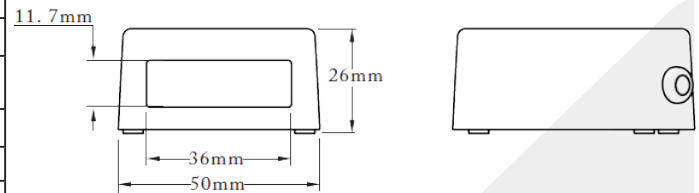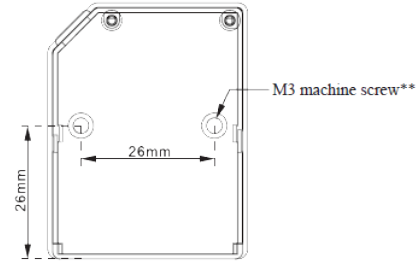## Decode Zones

85mm	Code 39(5mil)	190mm
45mm	Code 39(10mil)	320mm
55mm	EAN-13(10mil)	260mm
60mm	EAN-13(15mil)	345mm
25mm	Code 128(10mil)	280mm

42°

0   100   200   300   400   500

EM1300 Specifications

Performance	
Interface	RS232/USB-HID
Image Sensor	Linear CCD
Scan Rate	300 scans/sec
Symbologies	Code128, EAN-13, EAN-8, GS1 Databar, Code39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN/ISSN, Code 93, 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	25mm~345mm;
Print Contrast Signal	≥ 30%
Pitch	±60°@ 0°Roll and 0° Skew
Roll	±20°@ 0°Pitch and 0° Skew
Skew	±45°@ 0°Roll and 0° Pitch
Illumination	0 ~ 100,000 LUX

Mechanical/ Electrical		
Power Consumption		1.25W (Max)
Voltage		DC 5.0V
Current	Max	250mA
	Working	170mA
	Idle	65mA
IP rating		IP54
Weight		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

Dimensions (mm)

**Note: The length of the screw into FM420 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.

Accessories

Flex Cable	
CBL-FM100R	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.
CBL-FM100U	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	
ADP006	The power adapter for FM100 by the CBL-FM100R. Output: DC5V, 2A; Input: AC100~240V, 50~60HZ.