

# NLS-FM100 Series

**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

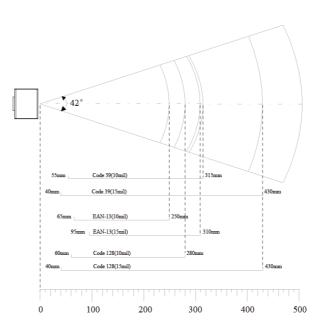
Compact and easy to integrate design. The small form factor enables easy integration into various solutions. The FM100 has an IP54 rating meaning it is dust -and water resistant.

#### Advanced Technology

Includes core-technology **UIMG**<sup>®</sup>, which is independently designed and manufactured by Newland Auto-ID.

**UING**<sup>®</sup>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.

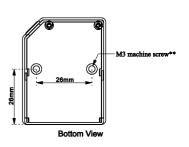
#### Decode Zone

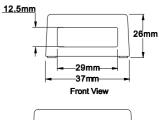


## **Specifications**

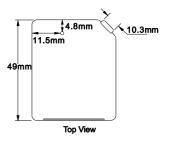
Performance		
Image Sensor		CCD
Resolution		2500
Interface		RS232, USB 1.1
Symbologies		Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN/ISSN, Code 93, UCC/EAN-128, GS1Databar,etc.
Precision		$\geq$ 5mil( Condition: PCS=0.9, testing code: Code 39)
Depth of Scan Field		40mm-430mm
Print Contrast Signal		≥ 30%
	Pitch	$\pm$ 65°@ 0°Roll and 0° Skew
Sensitivity**	Roll	$\pm$ 30°@ 0°Pitch and 0° Skew
	Skew	$\pm$ 60°@ 0°Roll and 0° Pitch
Illumination		0 ~ 100,000 LUX
Light Source		LED(622 nm - 628 nm)
Light Intensity		265 LUX (130 mm )
Mechanical/ E	lectrical	
Power Consumption		1.25W
Voltage		DC 5 V
	Мах	250 mA
Current	Working	170mA
	ldle	65mA
Dimensions		49.0 *37.0 * 26.0 mm
Weight		70 g
Environment		
Operate Temperature		-5°C - +45°C
Storage Temperature		-40°C - +60°C
Humidity		5% - 95% (non-condensing)
Certificates		
FCC Part15 Cl	ass B, CE EMC	Class B

### **Dimension (Unit: mm)**









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

# **Contact Us**

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# Accessories

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

\*\*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