

FM-150S

1D & 2D Barcode Scanner



Feature

► UIMG® Technology

Newland's sixth-generation **UIMG®** technology gives the scan engine an edge with unrivaled decoding capabilities on 1D & 2D barcodes.

► Multiple Interfaces

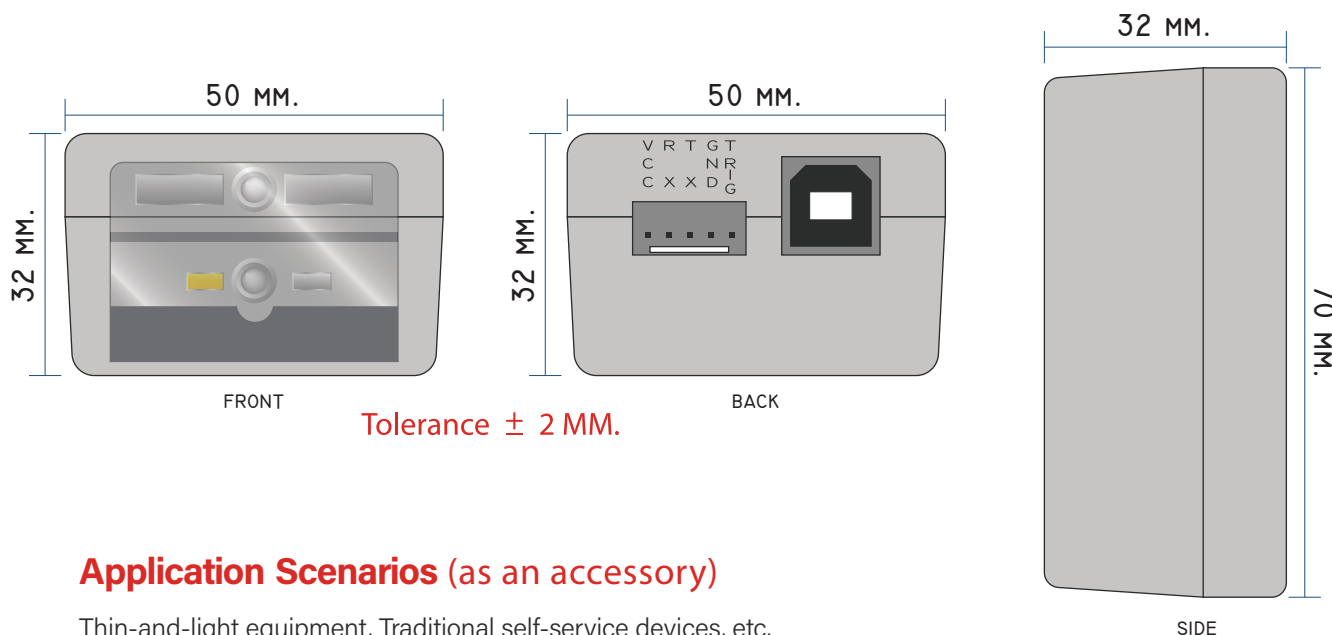
The FM-150S Supports USB and TTL-232 Interfaces to meet diverse customer needs.

► Compact & Lightweight Design

Seamless integration of imager and decoder board makes the scan engine extremely small and lightweight and easy to fit into miniature equipment.

► Outstanding Power Efficiency

The advanced **NDC** technology incorporated in the scan engine helps reduce its power consumption and prolong its service life.



Application Scenarios (as an accessory)

Thin-and-light equipment, Traditional self-service devices, etc.

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Specification for 2D Scan Engine

Physical Parameter	Dimensions		21.4 mm. x 13.5 mm. x 11.8 mm.
	Power	Working current	120 mA
		Stand by current	20 mA
		Sleep current	2 mA
	Operating Voltage		DC 3.3V \pm 5%
	Weight		7g
Performance Parameter	Interface		USB, RS232 (TTL232, Can change into RS232)
	Image Sensor		640x480 CMOS
	Illumination		Red LED
	Aimer		White LED
	CPU		32
	Symbologies		Codebar, Code11, Code39, Code93, UPC, EAM Code128, EAN128, InterLeaved 2 of 5, Matrix 2 of 5 MSI Code, Standard 2 of 5, QR, DATA, Matrix PDF417
	Resolution		Code39 5mil
	Typical Dept of Field	Code39	50mm-120mm (5mil)
		Code93	40mm-210mm (10mil)
		UPC	40mm-250mm (15mil)
		QR	40mm-250mm (20mil)
	Scan Speed		200 decodes/sec (default)
	Scanning Method		Button , Self-sensing, Automatic continuos scanning
	Scan Area		5x5 CM ² - 30x30 CM ²
	Prompt Mode		Buzzer, LED Indicator
	Typical Dept of Field	Roll	0-360°
		Pitch	\pm 65°
		Skew	\pm 60°
Environmental Parameter	Protection Level		IP54
	Operating Temperature		-20 - 60°C
	Storage Temperature		-30 - 70°C
	Operation Humidity		5-95% (Non-condensing)
	Anti-interfearence		15KV air discharge
	Shock Resistance		1.5 M. Free fall

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Thailand Leading Vending Machine Supplier

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1D & 2D Barcode Scanner

Specification for 1D Scan Engine

Performance	Interface		TTL232
	Image Sensor		CCD
	Symbologies	1D	Code128,EAN-13,EAN-8,Code39,UPC-A,UPC-E,Codabar,Interleaved 2 of 5,ISBN/ISSN,Code 93, etc.
	Resolution		2500
	Scan Rate		up to 300 scans/sec
	Decode Rate		200 decodes/sec (default)
	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		Roll: 30°, Pitch: ±65°, Skew: ±60°
	Illumination		0 ~ 100,000 LUX
Mechanical/ Electrical	Power Consumption		0.33W
	Voltage		DC 3.3 V
	Current@5VDC	Working	160mA
		Idle	45mA
		Sleep	12mA
Environmental	Weight		6g
	Operating Temperature		-20°C~+60°C
	Storage Temperature		-40°C~+85°C
	Humidity		5%~95% (non-condensing)
Certificates	Scan engine inside only		FCC Part15 Class B, CE EMC Class B
Accessories	Evaluation Kit		The Evaluation Kit for EM1300, with trigger, beep functions and USB, RS232 interfaces.
	USB Cable		This cable connects to the USB Slave port of EM1300 with a USB-B male port.With a standard USB Slave port to connect to standard USB Host port.
	RS232 Cable		This cable connect to the RS232 port of EVK1300. With a standard female RS232 port to connect to standard male RS232 port.
	Power Adapter		The power adapter for EVK1300 by RS232 Cable. Output: DC5V, 2A; Input: AC100~240V, 50~60HZ

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