FMT
FMT Corporation Co., Ltd.

CUSTOMER SATISFACTION 100% GUARANTEED

1 YEAR WARRANTY

FM-200S
1D & 2D Barcode Scanner

1D | 2D | CMOS | TTL232 | USB

Feature

▶ **UIMG® Technology**

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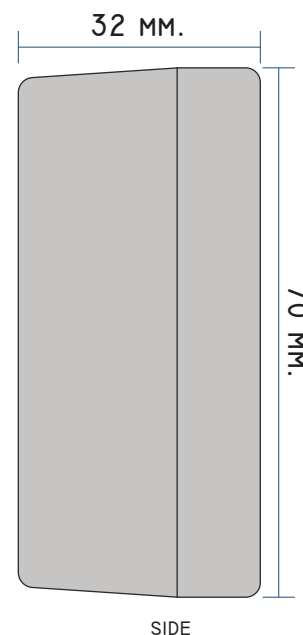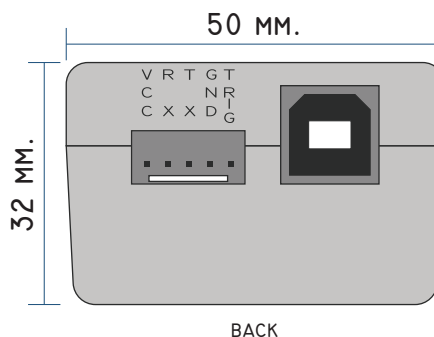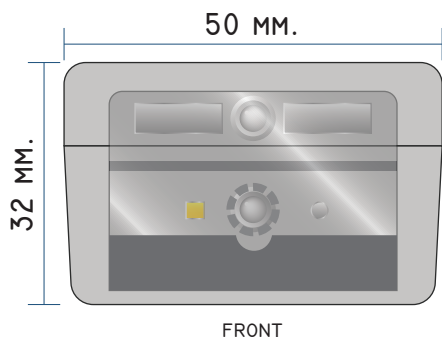
▶ **Multiple Interfaces**

The FM-200S 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 **NLDC** technology incorporated in the scan engine helps reduce its power consumption and prolong its service life.

50 MM.

32 MM.

FRONT

50 MM.

32 MM.

V R T G T
C   N R
C X X D I
       G

BACK

32 MM.

70 MM.

SIDE

Application Scenarios (as an accessory)

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

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Specification for 2D Scan Engine

Performance	Image Sensor		640×480 CMOS
	Illumination		White LED
	Aimer		Red LED (650 nm±10 nm)
	Symbologies	2D	PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140), Chinese Sensible Code
		1D	Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, Plessey, MSI-Plessey, etc.
	Resolution*		≥5mil
	Typical Depth of Field*	EAN-13	60mm-230mm (13mil)
		Code 39	55mm-125mm (5mil)
		QR Code	40mm-120mm (15mil)
	Min. Symbol Contrast*		25%
	Scan Angle**		Roll: 360°, Pitch: ±45°, Skew: ±40°
	Field of View		Horizontal 45.6°, Vertical 34.2°
Mechanical/ Electrical	Interface		TTL-232, USB (HID Keyboard, COM Port Emulation, HID-POS)
	Operating Voltage		3.3VDC±5%
	Rated Power Consumption		480mW
	Current@3.3VDC	Operating	145±15mA
		Standby	<11mA
		Sleep	<200uA
	Dimensions		21.5(W)×15.3(D)×11.8(H)mm (max.)
	Weight		3.6±0.2g
Environmental	Operating Temperature		-20℃ to 50℃ (-4°F to 122°F)
	Storage Temperature		-40℃ to 70℃ (-40°F to 158°F)
	Humidity		5% to 95% (non-condensing)
	Ambient Light		0~100,000lux (natural light)
Certifications	Scan engine inside only		FCC Part15 Class B, CE EMC Class B
Accessories	NLS-EVK		Software development board for the NLS-EM3085-M, equipped with a trigger button, beeper and RS-232 & USB interfaces.
	Cable	USB	Used to connect the NLS-EVK to a host device.
		RS-232	Used to connect the NLS-EVK to a host device.

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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%
	Sencitivity		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
	Weight		6g
Environmental	Operating Temperature		-20℃~+60℃
	Storage Temperature		-40℃~+85℃
	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