

EM20

OEM Scan Engine



Features

♦ Fast and efficient barcode scanning.

The EM20 is a Newland 2D OEM Scan Engine that is easy to use for both your employees and customers. The scanner picks up on barcodes easily and takes almost no time to master.

♦ Easy integration.

The EM20 is designed as an OEM Scan Engine with minimal casing to incorporate the illumination needed to accomplish optimum scanning. The resulting flexibility makes it a suitable solution for a wide variety of applications.

♦ Multiple interfaces.

The EM20 supports USB and TTL-232 interfaces to meet diverse customer needs.

♦ Minimal footprint.

With a shallow form factor (65.1mm), fitting the device into small spaces is simple and hassle free.

♦ Designed to optimize scanning from a mobile phone screen.

A wide viewing angle and shallow depth of field makes the EM20 an ideal OEM Scan Engine for scanning from a mobile phone screen. It was designed with added illumination that optimizes phone screen reading.

Work faster, more efficiently and more effectively, simplifying and speeding up the process for your customers.

Application Scenarios

Kiosks ; self-service cabinets used in e-commerce, express delivery services and smart homes; ATMs; queue machines; lottery machines; certificate makers.

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Performance	Image Sensor		752×480 CMOS
	Light Source		White LED
	Symbologies	2D	PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140)
		1D	Code128, UCC/EAN-128, AIM-128, EAN-8, EAN-13, ISBN/ISSN, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-4, Matrix 2 of 5, Industrial 25, Standard 25, Code 39, Codabar, Code 93, Code 11, Plessey, MSI-Plessey, GS1-DataBar™(RSS), (RSS-14, RSS-Limited, RSS-Expand)
	Resolution		≥5mil
	Typical Depth of Field	EAN-13	10mm-55mm (13mil)
		PDF 417	15mm-35mm (6.67mil)
		Data Matrix	15mm-40mm (10mil)
		QR Code	10mm-50mm (15mil)
	Symbol Contrast		≥30% reflectance difference
	Scan Angle**		Roll: 360°, Pitch: ±40°, Skew: ±40°
	Field of View		Horizontal 80°, Vertical 56°
Mechanical/ Electrical	Interface		TTL-232, USB (HID-KBW, COM Port Emulation, HID-POS)
	Operating Voltage		3.0~5.5VDC
	Current@5VDC	Operating	160mA
		Sleep	12mA
	Dimensions		65.1(D)×61.1(W)×43.6(H)mm
	Weight		41.5g
Environmental	Operating Temperature		-20°C~+60°C (-4°F~140°F)
	Storage Temperature		-40°C~+80°C (-40°F~176°F)
	Humidity		5%~95% (non-condensing)
	Ambient Light		0~100000lux (natural light)
Accessories	USB Cable		Used to connect the NLS-EM20 to a host device.

**Test conditions: Code 39; 3 Bytes; Resolution=10mil; W:N=3:1; PCS=0.8; Barcode Height=11mm; Scan Distance=120mm; T=23°C; Illumination=300lux.

Specifications are subject to change without notice.

Version: V1.0

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