

# **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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Light Source  Symbologies  2D  PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC 050, 080, 100, 140)  1D  Code128, UCC/EAN-128, AIM-128, EAN-8, EAN-13, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-4, Matrix Industrial 25, Standard 25, Code 39, Codabar, Code Plessey, MSI-Plessey, GS1-DataBar™(RSS), (RSS-14 RSS-Expand)	3, ISBN/ISSN, crix 2 of 5, e 93, Code 11,
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Plessey, MSI-Plessey, GS1-DataBar™(RSS), (RSS-14 RSS-Expand)	
RSS-Expand)	1, RSS-Limited,
Developed Service Service	
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/ Interface TTL-232, USB (HID-KBW, COM Port Emulation, HID-F	POS)
Electrical 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	
<b>Environmental</b> 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)	
A -	
Ambient Light 0~100000lux (natural light)	

<sup>\*\*</sup>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.

Version: V1.0

<sup>\*</sup>Specifications are subject to change without notice.\*