

# NLS-EM20

## **OEM Scan Engine**

- ◆ **WMG®** Technology
- ◆ Two-In-One Design
- **◆ Low Power Consumption ◆ Multi-Interface**
- ◆ Snappy On-Screen Barcode Capture



### **Features**

### **□ UIMG®** Technology

Armed with Newland's fifth-generation of **IIIMG**® technology, the scan engine can decode even poor quality barcodes with ease.

#### ■ Snappy On-Screen Barcode Capture

The NLS-EM20 can capture on-screen barcodes effortlessly even when the screen is covered with protective film or set to its lowest brightness level.

#### **■** Multi-Interface

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

### **Application Scenarios** (as an accessory)

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

### **■** Two-In-One Design

Seamless integration of image sensor and decoder board makes the scan engine small, lightweight and easy for integration.

#### **■** Low Power Consumption

The advanced **NIX** technology incorporated in the scan engine promises low power consumption and prolonged service life.

# NLS-EM20

### **SEANNING MADE SIMPLE**

# **OEM Scan Engine**

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 $^{TM}$ (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/	Interface		TTL-232, USB (HID-KBW, COM Port Emulation, HID-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
Environmenta	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.

<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 $^{\circ}$ C; Illumination=300lux.

Version: V1.0



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