



# NLS-EM3096-V3

## **OEM SCAN ENGINE**

# **FEATURES**

# ○ **UIMG®** Technology

Built with Newland's sixth-generation of **UIMG®** technology, the scan engine can decode even poor quality barcodes with ease.

## Compact & Lightweight Design

Seamless integration of image sensor and decoder board makes the scan engine small, lightweight and easy to fit into even the most space-constrained equipment.

## **Snappy On-screen Barcode Capture**

The NLS-EM3096 V3 excels at reading barcodes from LCD monitors and mobile phones, making it the ideal choice for the burgeoning barcode-based mobile payment industry.

## **Outstanding Power Efficiency**

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













# NLS-EM3096-V3

### **Performance**

Image Sensor 752 \* 480 CMOS

Illumination Red LED (625nm±10nm)

Aimer Symbologies

PDF 417, Data Matrix (ECC200, ECC000, 050, 080, 100, 140), QR Code, Micro QR, Aztec

2D ID

Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Code 11, Codabar, Interleaved 2 of 5, ITF-

6, ITF-14, ISBN, Code 93, MSI-Plessey, UCC/EAN-128, Matrix 2 of 5, Standard 2 of 5, Plessey,

GS1 Databar, Industrial 2 of 5, etc.

Red LED (625nm±10nm)

Resolution\*

≥4mil (1D)

Typical Depth of Field\*

EAN-13 60mm-290mm (13mil) Code 39 55mm-165mm (5mil) PDF417 55mm-135mm (6.7mil)

Data Matrix 55mm-130mm (10mil)
QR Code 45mm-175mm (15mil)

Min. Symbol Contrast\*

Scan Angle\*\*

Roll: 360°, Pitch: ±55°, Skew: ±55°

Horizontal 36°, Vertical 23°

## Physical

Current@3.3VDC Operating

ating 136.5mA (typical), 195mA (max.)

 Idle
 8.7mA

 Sleep
 <100uA</td>

Dimensions  $21.8(W) \times 15.3(D) \times 11.8(H) \text{mm (max.)}$ 

Weight 4g

### Environmenta

Operating Temperature  $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $140^{\circ}\text{F}$ )
Storage Temperature  $-40^{\circ}\text{C}$  to  $70^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $158^{\circ}\text{F}$ )
Humidity 5% to 95% (non-condensing)
Ambient Light  $0\sim100,000$  lux (natural light)

#### Certificates

Certificates FCC Part15 Class B, CE EMC Class B, RoHS

## **Accessories**

NLS-EVK Software development board for the NLS-EM3096 V3, 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.

Power Adapter DC 5V power adapter used to provide power for the NLS-EVK.

\*Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample printed barcodes made by Newland.

\*\*Test conditions: T=23°C; Illumination=300lux using incandescent lamp;

\*\*Test conditions: Scan Distance= (min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp;

2D: QR Code; 10 Bytes; Resolution=15mil; PCS=0.8.

Specifications are subject to change without notice.

Version: VI.1

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