



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.

O 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.

O 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.













TL232

USB

NLS-EM3096-V3

Performance

Image Sensor 752 * 480 CMOS

Illumination Red LED (625nm±10nm)

Aimer

Typical Depth of Field*

Red LED (625nm±10nm) PDF 417, Data Matrix (ECC200, ECC000, 050, 080, 100, 140), QR Code, Micro QR, Aztec 2D Symbologies

> Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Code 11, Codabar, Interleaved 2 of 5, ITF-10

> > 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.

≥4mil (1D)

EAN-13 60mm-290mm (13mil) 55mm-165mm (5mil) Code 39 55mm-135mm (6.7mil) PDF417 55mm-130mm (10mil) Data Matrix OR Code 45mm-175mm (15mil)

Min. Symbol Contrast* Scan Angle** Roll: 360°, Pitch: ±55°, Skew: ±55°

Horizontal 36°, Vertical 23°

Physical

Interface TTL-232. USB 3.3VDC ±5% Operating Voltage Rated Power Consumption 450.5mW (typical)

Current@3.3VDC 136.5mA (typical), 195mA (max.) Operating

> Idle <100uA Sleep

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

Weight

Environmenta

-20°C to 60°C (-4°F to 140°F) Operating Temperature Storage Temperature -40°C to 70°C (-40°F to 158°F) Humidity 5% to 95% (non-condensing) Ambient Light 0~100,000lux (natural light)

Certificates

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

Accessories

Software development board for the NLS-EM3096 V3, equipped with a trigger button, beeper NIS-FVK

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.

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

Specifications are subject to change without notice.

Version: VI.1

Newland AIDC

Add: No.1 Rujiang West Rd., Mawei, Fuzhou, Fujian 350001, China Tel: +86-591-83979500 Fax: +86-591-83979216 Email: info@nlscan.com Web: www.newlandaidc.com

North America&Latin America

Add: 46559 Fremont Blvd., Fremont, CA 94538, USA Tel: +1 510 490 3888 Fax: +1 510 490 3887 Email: info@nlscan.com Web: www.newlandamerica.com

Europe & Middle East

Add: Rolweg 25, 4104 AV Culemborg, The Netherlands Tel: +31 (0) 345 87 00 33 Email: sales@newland-id.com Tech Support: tech-support@newland-id.com Web: www.newland-id.com

Asia Pacific Taiwan

Add: 7F-6, No. 268, Liancheng Rd., Jhonghe Dist. 235, New Taipei City, Taiwan Tel: +886 2 7731 5388 Email: info@newland-id.com.tw



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

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