

# NLS-EM3396

## OEM Scan Engine

- ◆ **UIMG<sup>®</sup> Technology**
- ◆ **All-in-One Design**
- ◆ **Highly Visible Laser Aimer**
- ◆ **Outstanding Power Efficiency**



### Features

#### ■ **UIMG<sup>®</sup> Technology**

Armed with Newland's six-generation of **UIMG<sup>®</sup>** technology, the scan engine can swiftly and effortlessly decode even poor quality barcodes.

#### ■ **All-in-One 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. (Seamlessly compatible with NLS-EM3096)

#### ■ **Highly Visible Laser Aimer**

The scan engine provides a laser-generated crosshair aiming pattern that is clear and bright even in bright sunlight, ensuring first time accurate aim.

#### ■ **Outstanding Power Efficiency**

The advanced **NLDC** technology incorporated in the scan engine helps reduce the power consumption and prolong the service life of the device.

### Application Scenarios (as an accessory)

Traditional self-service devices, PDAs, tablets and other thin & light mobile devices.

# NLS-EM3396

## OEM Scan Engine

<b>Performance</b>	Image Sensor	752x480 CMOS	
	Illumination	612nm-624nm red LED	
	Aiming	650nm laser diode	
	Symbolologies	2D	PDF417, Data Matrix (ECC200, ECC000, 050, 080, 100, 140), QR Code, Chinese Sensible Code
		1D	Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, Plessey, MSI-Plessey, etc.
	Resolution*	≥3mil	
	Typical Depth of Field*	EAN-13	60mm-290mm (13mil)
		Code 39	55mm-165mm(5mil)
		PDF 417	55mm-135mm (6.7mil)
		Data Matrix	55mm-130mm (10mil)
		QR Code	45mm-175mm (15mil)
	Symbol Contrast*	≥20%	
	Scan Angle**	Roll: 360°, Pitch: ±55°, Skew:±55°	
	Field of View	Horizontal 36°, Vertical23°	
<b>Mechanical/</b>	Interface	TTL-232, USB	
	<b>Electrical</b>	Rated Power Consumption	468mW (typical)
Operating Voltage		3.3VDC±5%	
Current @3.3 VDC		Operating	142mA (typical), 204mA (max.)
		Standby	11mA
		Sleep	<100uA
Dimensions		21.5(W)x15.3(D)x11.8(H)mm (max.)	
Weight		6.5g	
<b>Environmental</b>		Operating Temperature	-20°C to 55°C (-4°F to 131°F)
	Storage Temperature	-40°C to 70°C (-40°F to 158°F)	
	Humidity	5%~95% (non-condensing)	
	Ambient Light	0~100,000lux	
<b>Certifications</b>		FCC Part15 Class B, CE EMC Class B	
<b>Accessories</b>	NLS-EVK	Software development board, 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 Adaptor	DC5V power adaptor, used to provide power for the NLS-EVK.	

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

\*\*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: V1.2

### Newland China

+86-591-83978605  
contact@nlsan.com  
www.newlandaidc.com

### Newland Europe

+31(0)-345-87-0033  
info@newland-id.com  
www.newland-id.com

### Newland North America

+1-510-490-3888  
info@newlandna.com  
www.newlandamerica.com

### Newland Latin America

+1-239-598-0068  
info@newlandla.com  
www.newlandamerica.com

### Newland Taiwan

+886-2-7731-5388  
info@newland-id.com.tw  
www.newland-id.com.tw

### Newland Korea

+82-10-8990-4838  
th.sung@newland-id.com.tw  
www.newlandaidc.com