

# NLS-EM3396

## OEM Scan Engine

- ◆ **UIMG<sup>®</sup>** Technology
- ◆ Two-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.


### ■ **Two-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  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

SCANNING MADE SIMPLE

## OEM Scan Engine

<b>Performance</b>	Image Sensor		752×480 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°, Vertical 23°	
<b>Mechanical/ Electrical</b>	Interface		TTL-232, USB	
	Rated Power Consumption		468mW (typical)	
	Operating Voltage		3.3VDC±5%	
	Current @3.3 VDC	Operating		142mA (typical), 204mA (max.)
		Standby		10.2mA
		Sleep		<100uA
	Dimensions		21.3(W)×15.5(D)×11.6(H)mm	
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: V1.1

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