

NLS-EM3396

OEM Scan Engine

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



Features

■ **UIMG®** Technology

Armed with Newland's six-generation of **UIMG®** 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 **NLD** 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

Performance	Image Sensor		752×480 CMOS	
	Illumination		612nm-624nm red LED	
	Aiming		650nm laser diode	
	Symbologies	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°	
Mechanical/ Electrical	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		
Environmental	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	
Certifications			FCC Part15 Class B, CE EMC Class B	
Accessories	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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