

NLS-EM3396

OEM Scan Engine

- ◆ **UIMG[®]** Technology
- ◆ Two-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.


■ **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

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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