

















FEATURES

Advanced technology.

Armed with Newland's fifth-generation of UIMG technology, the scan engine can decode even poor quality barcodes with ease. EM3396 is equiped with the laser aimer.

Miniature and ultralight form factor.

Ultra-compact, light and integrator-friendly, the EM3396 caters for miniaturization needs of OEM applications.

Multi-interface.

The EM3396 supports USB and TTL-232 interfaces to meet diverse customer needs.

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.

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

EM3396 **OEM** scan engines

Performance	Image Sensor		752×480 CMOS
	Illumination		Red LED 625nm±10nm
	Aiming		Laser diode 650nm
	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°, Vertical23°
Mechanical/	Interface		TTL-232, USB
Electrical	Rated Power Consumption		468mW (typical)
	Operating Voltage		3.3VDC±10%
	Current @3.3 VDC	Operating	142mA (typical), 204mA (max.)
		Idle	11mA
		Sleep	<100uA
	Dimensions		21.5(W)×15.3(D)×11.8(H)mm (max.)
	Weight		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.

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^{**}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.*