



NLS-EM2037-V4

OEM SCAN ENGINE

FEATURES

- **Extensive Data Capture**

Capabilities

In addition to excelling at scanning high-density barcodes, the NLS-EM2037 V4 also provides the added value of postal barcodes decoding – extending its data capture capabilities.

- **Powerful Data Editing Capability**

The scan engine allows customizing scanned data with ease and provides supporting software to address diverse application needs.

- **Multiple Interfaces**

The NLS-EM2037 V4 supports USB and TTL-232 interfaces to meet diverse customer needs.

- **Compact & Lightweight Design**

Seamless integration of imager and decoder board makes the scan engine extremely small and lightweight and easy to fit into miniature equipment.



1D Barcode



2D Barcode



Postal



OCR



RS232



USB

NLS-EM2037-V4

Performance

	EM2037-V4-SR	EM2037-V4-HD
Image Sensor		1280 * 800 CMOS
Illumination		Red LED
Aiming		Red LED
Symbologies	ID	EAN-8, EAN-13, UPC-E, UPC-A, Code 128, UCC/EAN128, I2Of5, ITF-14, ITF-6, Matrix 25, CodaBar, Code 39, Code 93, ISSN, ISBN, Industrial 25, Standard 25, Plessey, Code11, MSI-Plessey, UCC/EAN Composite, GSI Databar, China Post 25, Code 49, Code 16K
	2D	PDF 417, QR Code, Micro QR, Data Matrix, Aztec, Maxicode, Chinese Sensible Code, GM Code, Micro PDF417 Code, Code One
	Postal	USPS Postnet, Royal Mail, KIX Post, Australian Postal, etc.
	OCR	Specific OCR-B, Passport OCR
Resolution*	≥4mil	≥3mil
Typical Depth of Field*	EAN-13 (13mil): 60mm-420mm Code 39 (5mil): 75mm-230mm PDF417 (6.7mil): 60mm-215mm Data Matrix (10mil): 55mm-220mm	Code 39 (3.3mil): 45mm-65mm Code 39 (5mil): 35mm-100mm PDF417 (5mil): 40mm-90mm Data Matrix (6.7mil): 40mm-80mm
Min. Symbol Contrast*		25%
Scan Angle**		Roll: 360°, Pitch: ±55°, Skew: ±55°
Field of View	Horizontal 39°, Vertical 24°	Horizontal 48.5°, Vertical 30.7°

Physical

Interface		TTL-232, USB
Operating Voltage		12-pin FPC connector: 3.3-5 VDC±5% 5-pin box connector: 5VDC±5%
Rated Power Consumption		1456.5mW (typical)
Current@5VDC	Operating	276.6mA (typical), 332.3mA (max.)
	Standby	57.4mA (typical)
Dimensions		39.5(W) × 25.4(D) × 20(H)mm (max.)
Weight		11g

Environmental

Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 95% (non-condensing)
Ambient Light	0-100,000lux (natural light)

Certificates

Certificates & Protection	FCC Part15 Class B; CE EMC Class B, RoHS
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Accessories

NLS-EVK		Software development board, equipped with a trigger button, beeper and RS-232 & USB interfaces.
Cable	RS-232 Cable	Used to connect the NLS-EVK to a host device; equipped with a power connector.
	USB Cable	Used to connect the NLS-EVK3000 to a host device.
Power Adapter		DC5V power adapter, used to provide power for the NLS-EVK.

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

**Test conditions: Scan Distance= (min. DOF + max. DOF) / 2; T=23°C; Illumination=300lux using incandescent lamp;

ID: EAN-13 (13mil).

Specifications are subject to change without notice.

Version: V1.1

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