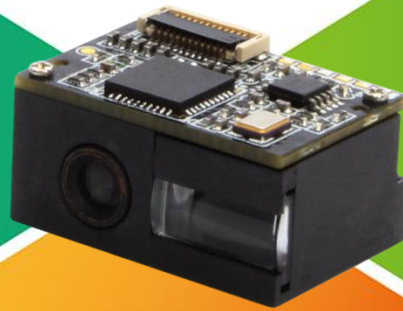


# NLS-EM1399

## OEM Scan Engine

- ◆ **UIMG® Technology**
- ◆ **Two-In-One Design**
- ◆ **Superior Scan Performance**
- ◆ **Outstanding Power Efficiency**
- ◆ **Multiple Interfaces**



## Features

### ■ **UIMG® Technology**

Built with Newland's fifth-generation of **UIMG®** technology, the scan engine can decode even poor quality barcodes with ease.

### ■ **Superior Reading Performance**

The NLS-EM1399 offers snappy, high-resolution reading capability on all mainstream 1D symbologies.

### ■ **Multiple Interfaces**

The NLS-EM1399 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 be integrated into 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 (as an accessory)

PDA's, POS terminals, tablets, portable devices, etc.

## OEM Scan Engine

Performance	Image Sensor		2500-pixel linear imager
	Illumination		612nm-624nm red LED
	Aiming		612nm-624nm red LED
	Max. Scan Speed		300 scans per second
	Symbologies	1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128, Code 93, ITF-6, ITF-14, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, GS1 Databar, Code 39, Code 11, MSI-Plessey, Plessey, etc.
	Resolution*		≥3mil
	Typical Depth of Field*	Code 39	70mm-190mm (5mil)
		EAN-13	50mm-450mm (13mil)
		Code 128	45mm-430mm (10mil)
	Symbol Contrast*		≥20%
Mechanical/ Electrical	Scan Angle**		Pitch: ±55°, Skew: ±60°
	Interface		TTL-232, USB
	Rated Power Consumption		86mW (typical)
	Operating Voltage		3.3VDC±5%
	Current@3.3VDC	Operating	26mA (typical), 76mA (max.)
		Standby	21mA
	Dimensions		21.5(W)×15.3(D)×11.9(H)mm
	Weight		5g
Certifications			FCC Part15 Class B, CE EMC Class B
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
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: Barcode Height=40mm; Scan Distance=(min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp;

1D: Code 128; 5 Bytes; Resolution=10mil; PCS=0.8.

Specifications are subject to change without notice.

Version: V1.0

### Newland China

+86-400-608-0591

marketing@nlscan.com

### Newland Europe

+31(0)-345-87-0033

info@newland-id.com

### Newland Taiwan

+886-2-7731-5388

info@newland-id.com.tw

### Newland North America

+1-510-490-3888

info@newlandna.com