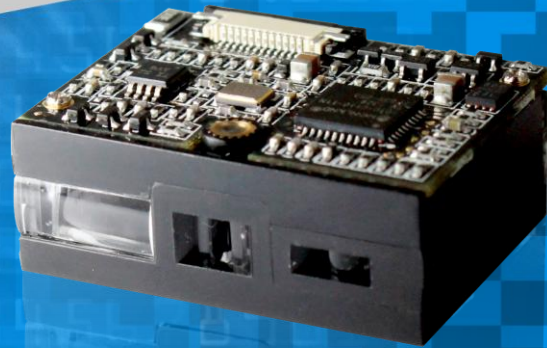


# NLS-EM1365-LS

## OEM Scan Engine



The NLS-EM1365-LS OEM scan engine, armed with linear imager, is suitable to be integrated into various OEM devices including kiosks, ticket validators and PDAs.

The NLS-EM1365-LS's core technology **UIMG<sup>®</sup>** is independently developed by Newland, comprising optical system, digitizer, decoder, image processor and embedded system. The device demonstrates an unprecedented decoding capability on all mainstream 1D symbologies.

The NLS-EM1365-LS supports 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.

### Features:

- **Two-In-One Design:** Seamless integration of imager and decoder board makes the scan engine small, lightweight and easy for integration.
- **Superior performance:** The NLS-EM1365-LS delivers fast and accurate reading of 1D barcodes.
- **Low power consumption:** The scan engine provides an optimal solution for battery-operated equipments and mobile devices.
- **Easy to use:** Simple parameter configuration.

## NLS-EM1365-LS Specifications

Performance		
Interface	TTL-232, USB1.1	
Image Sensor	Linear imager	
Resolution	1500	
Scan Rate	300 scans per second	
Symbologies	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.	
Reading Precision	≥ 4mil	
Light Source	Laser diode (648nm ~ 660nm)	
Depth of Field*	Code 39 (5mil): 65mm~175mm EAN-13 (13mil): 55mm ~ 605mm	
Scan Angle**	Pitch	±60° @ 0° Roll and 0° Skew
	Roll	±30° @ 0° Pitch and 0° Skew
	Skew	±60° @ 0° Roll and 0° Pitch
Symbol Contrast	≥ 30% reflectance difference	
Mechanical/Electrical		
Rated Power Consumption	0.33W	
Operating Voltage	3.0 ~ 3.6VDC	
Current @ 3.3VDC	Operating Current	100mA
	Standby Current	25mA
Dimensions	28.25(W)×21.99(D)×11.75(H)mm	
Weight	7.2g	
Environmental		
Operating Temperature	-20°C ~ +60°C	
Storage Temperature	-40°C ~ +85°C	
Humidity	5% ~ 95% (non-condensing)	
Ambient Light	0 ~ 100,000 LUX	
Certifications		
FCC Part15 Class B; CE EMC Class B		
Accessories		
NLS-EVK3000	Software development board, equipped with a trigger button, beeper and RS-232 & USB interfaces.	
Cable	RS-232 Cable	Used to connect the NLS-EVK3000 to a host device; equipped with a power connector.
	USB Cable	Used to connect the NLS-EVK3000 to a host device.
Power Adaptor	Used to provide power for the NLS-EVK3000. Output: DC5V, 2A; Input: AC100~240V, 50~60Hz.	
* Test conditions: T=23°C, Illumination=300 LUX		
** Test conditions: Code 39, 3 Bytes; Resolution=10mil; W:N=3:1; PCS=0.8; Barcode Height=11mm; Scan Distance=120mm, T=23°C, Illumination=300 LUX		

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