



**EM1399-LD**  
OEM scan engine



## FEATURES

### Progressive technology.

The EM1399-LD's core technology UIMG is independently developed by Newland, comprising optical system, digitizer, decoder, image processor and embedded system.

### Two-In-One Design.

Seamless integration of imager and decoder board makes the scan engine small, lightweight and easy for embedding.

### Superior performance.

The EM1399-LD demonstrates an unprecedented decoding capability on all mainstream 1D symbologies.

### Low power consumption.

The scan engine provides an optimal solution for battery-operated equipments and mobile devices.

### Multiple interfaces.

The EM1399-LD supports USB and TTL-232 interfaces to meet diverse customer needs.

### Easy to use.

Simple parameter configuration.

## Application Scenarios

Designed for OEM applications, this high performance CCD scan engine can easily be integrated into various solutions such as kiosks • POS terminals • ticketing machines • PDA's and many more.

<b>Performance</b>	Image Sensor	2500-pixel linear imager		
	Illumination	Red LED (612nm-624nm)		
	Aiming	Red LED (612nm-624nm)		
	Max. Scan Speed	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, 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%		
	Scan Angle**	Pitch: ±55°, Skew: ±60°		
<b>Mechanical/ Electrical</b>	Interface	TTL-232, USB		
	Rated Power Consumption	86mW (typical)		
	Operating Voltage	3.3VDC±5%		
	Current@3.3VDC	Operating	26mA (typical), 76mA (max.)	
		Standby	10.4mA	
	Dimensions	21.5(W)×15.3(D)×11.9(H)mm		
	Weight	5g		
<b>Certifications</b>	FCC Part15 Class B, CE EMC Class B			
<b>Environmental</b>	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% to 95% (non-condensing)		
	Ambient Light	0~100,000lux		
<b>Accessories</b>	EVK	Software development board, equipped with a trigger button, beeper and RS-232 & USB interfaces.		
	Cable		Used to connect the EVK to a host device.	
		RS-232	Used to connect the EVK to a host device.	
	Power Adapter	DC5V power adapter, used to provide power for the EVK.		

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

Version: V1.0

\*\*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.\*

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