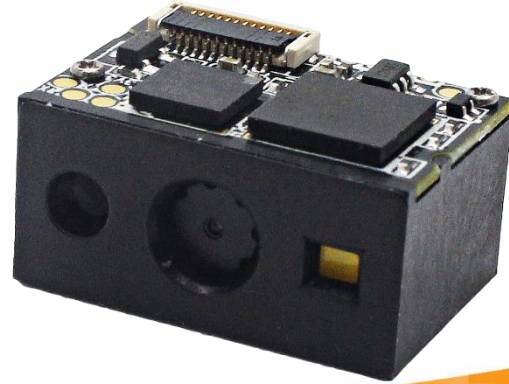
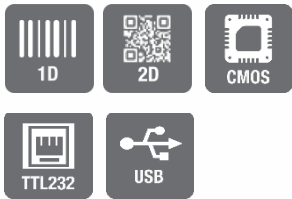


# NLS-EM3085-M

## OEM Scan Engine



### Features

#### ■ UIMG® Technology

Newland's sixth-generation **UIMG®** technology gives the scan engine an edge with unrivaled decoding capabilities on 1D & 2D barcodes.

#### ■ Multiple Interfaces

The NLS-EM3085-M 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.

#### ■ Outstanding Power Efficiency

The advanced **NDC** technology incorporated in the scan engine helps reduce its power consumption and prolong its service life.

### Application Scenarios (as an accessory)

PDA's, tablets, thin-and-light equipment, traditional self-service devices, etc.

# NLS-EM3085-M

SCANNING MADE SIMPLE

## OEM Scan Engine

<b>Performance</b>	Image Sensor	640×480 CMOS	
	Illumination	White LED	
	Aimer	Red LED (650 nm±10 nm)	
	Symbologies	2D	PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140), 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*	≥5mil	
	Typical Depth of Field*	EAN-13	60mm-230mm (13mil)
		Code 39	55mm-125mm (5mil)
		QR Code	40mm-120mm (15mil)
	Min. Symbol Contrast*	25%	
	Scan Angle**	Roll: 360°, Pitch: ±45°, Skew: ±40°	
	Field of View	Horizontal 45.6°, Vertical 34.2°	
	<b>Mechanical/ Electrical</b>	Interface	TTL-232, USB (HID Keyboard, COM Port Emulation, HID-POS)
Operating Voltage		3.3VDC±5%	
Rated Power Consumption		480mW	
Current@3.3VDC		Operating	145±15mA
		Standby	<11mA
		Sleep	<200uA
Dimensions		21.5(W)×15.3(D)×11.8(H)mm (max.)	
Weight	3.6±0.2g		
<b>Environmental</b>	Operating Temperature	-20°C to 50°C (-4°F to 122°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)	
<b>Certifications</b>	FCC Part15 Class B, CE EMC Class B		
<b>Accessories</b>	NLS-EVK	Software development board for the NLS-EM3085-M, 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 Adapter	DC5V power adapter to power the NLS-EVK with RS-232 cable.	

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

\*\*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.

Version:V1.2

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