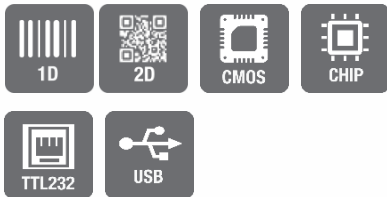



# NLS-EM3080-W

## OEM Scan Engine



### Features

- **Unmatched Scanning Performance**  
Featuring excellent near-field reading, wide-viewing angle and snappy reading, the NLS-EM3080-W also offers stunning performance on decoding poor-quality and damaged barcodes.
- **Multiple Interfaces**  
The NLS-EM3080-W 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  technology incorporated in the scan engine helps reduce its power consumption and prolong its service life.

### Application Scenarios (as an accessory)

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

# NLS-EM3080-W

SCANNING MADE SIMPLE

## OEM Scan Engine

Performance	Image Sensor	640×480 CMOS		
	Illumination	White LED		
	Aimer	None		
	Symbologies	2D	PDF417, QR Code, 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	40mm-110mm (13mil)	
		QR Code	30mm-70mm (15mil)	
	Min. Symbol Contrast*	25%		
	Scan Angle**	Roll: 360°, Pitch: ±45°, Skew: ±45°		
Field of View	Horizontal 69.5°, Vertical 54.8°, Diagonal 82.2°			
Mechanical/ Electrical	Interface	TTL-232, USB (HID Keyboard, COM Port Emulation, HID-POS)		
	Operating Voltage	3.3VDC±5%		
	Rated Power Consumption	180.8mW (typical)		
	Current@3.3VDC	Operating	55.1mA (typical), 100.5mA (max.)	
		Standby	3.5mA	
	Dimensions	15.5(W)×13.9(D)×9.7(H)mm (max.)		
	Weight	2.2±0.2g		
Environmental	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)		
Certifications	FCC Part15 Class B, CE EMC Class B			
Accessories	NLS-EVK	Software development board for the NLS-EM3080-W, 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: V1.0

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