



EM3080V2
OEM scan engine

FEATURES

Advanced technology.

Newland's sixth-generation UIMG technology makes the EM3080V2 capable of reading most of the 1D & 2D barcodes with ease, even poorly printed.

Multiple interfaces.

The EM3080V2 engine supports USB and TTL-232 interfaces, to meet diverse customer needs.

Compact and lightweight.

With 2.6 grams and small dimensions, the EM3080V2 can easily fit into miniature equipment.

All-round scanning capability.

The EM3080V2 scan engine can read barcodes on virtually any medium - paper, plastic cards, mobile phones and LCD displays.

Outstanding power efficiency.

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

Application Scenarios

Data collectors • POS terminals • coffee makers • tablets • thin-and-light equipment • traditional self-service devices and more.

Performance	Image Sensor	640×480 CMOS		
	Illumination	617nm~634nm red LED		
	Symbologies	2D	PDF417, QR Code, Data Matrix (ECC200, ECC000, 050, 080, 100, 140), Chinese Sensible Code	
		1D	Code 128, UCC/EAN-128, AIM 128, EAN-8, EAN-13, ISBN/ISSN, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-14, Matrix 2 of 5, Industrial 25, Standard 25, Code39, Codabar, Code 93, Code 11, Plessey, MSI-Plessey, GS1-DataBar™(RSS) (RSS-14, RSS-Limited, RSS-Expand)	
	Resolution*	≥ 5mil		
	Typical Depth of Field*	Code 39	65mm-100mm (5mil)	55mm-320mm (20mil)
		UPC-A	55mm-260mm (13mil)	
		PDF417	50mm-155mm (6.67mil)	
		Data Matrix	45mm-160mm (10mil)	
		QR Code	45mm-240mm (20mil)	
	Min. Symbol Contrast*	25%		
	Scan Angle**	Roll: 360°, Pitch: ±45°, Skew: ±45°		
	Field of View	Horizontal 36°, Vertical 23°		
	Mechanical/ Electrical	Interface	TTL-232, USB (HID Keyboard, COM Port Emulation, HID-POS)	
Operating Voltage		3.3VDC±5%		
Rated Power Consumption		281mW (typical)		
Current@3.3VDC		Operating	85mA (typical), 124mA (max.)	
		Standby	1mA	
Dimensions		15.6(W)×13.8(D)×9.7(H)mm (max.)		
Weight		2.6g		
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, CE FFC			
Accessories	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.	

*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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