Newland
SCANNING MADE SIMPLE

1D & 2D	**Chip**	**Entry Level**	**CMOS**	**Wide Scan Angle**	**White Illumination**
Power consumption	**Compact Size**	**Dual Interface**	**EasySet**	**Warranty 2 Years**	

EM3080-W V2
OEM Scan Engines

Features

Unmatched Scanning Performance

Featuring excellent near-field reading, wide-viewing angle and snappy reading, the EM3080-W V2 also offers stunning performance on decoding poor-quality and damaged barcodes.
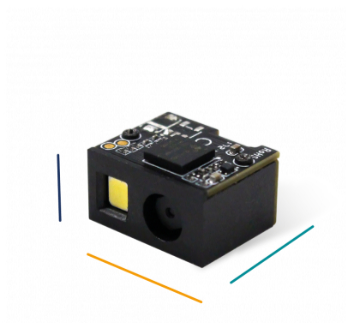
Multiple Interfaces

The EM3080-W V2 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 NLDC technology incorporated in the scan engine helps reduce its power consumption and prolong its service life.

Suggested industries

Healthcare	**Retail**

9.7 mm   15.5 mm   13.9 mm

Data Capture

1D	Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, ISSN, Code 93, UCC/EAN-128, GSI Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, AIM128, Plessey, MSI-Plessey
2D	PDF4 I 7, QR Code, Micro QR, Data Matrix, Aztec
Image Sensor	CMOS 640*480
Illumination	White LED
Scan Modes	Manual Mode, Continuous Mode, Sense Mode, Command Trigger Mode
Scan Rate	30 frames per second
Depth of Field EAN 13 (13mil)	40-110mm
Depth of Field QR (15mil)	30-70mm

Performance

Decoder	ASIC (0610)
Minimal Print Contrast	25%
Scan Angle Roll	360°
Scan Angle Pitch	±45°
Scan Angle Skew	±45°
Field of View Horizontal	69.5°
Field of View Vertical	54.8°

Physical

Dimensions (mm)	15.5(W)×13.9(D)×9.7(H)mm (max.)
Weight	2.2±0.2g
Material	PPA
Interfaces	TTL-232, USB
Input Voltage	3.3VDC±5%
Current @ 3.3VDC Operating	55.1mA (typical), 105mA (max.)
Current @ 3.3VDC Standby	9,0 mA
Sleep Current	1 mA
Power Consumption	181.8mW (Typical)

Environmental

Ambient Light	0~100,000lux (natural light)
Operating Temperature	-20℃ to 50℃ (-4°F to 122°F)
Storage Temperature	-40℃ to 70℃ (-40°F to 158°F)
Humidity	5%~95% (non-condensing)

Accessories

Optional	100mm flexible flat cable (FFC) – contacts opposite
Optional	NLS-EVK Software development board for the NLS-EM3080-W V2, equipped with a trigger button, beeper and RS-232 & USB interfaces.

Feel free to contact us or a partner near you

visit newland-id.com/partners

Newland

SCANNING MADE SIMPLE

Software

Configuration Tools	EasySet

Certifications

Hardware	FCC Part 15 Class B, CE EMC Class B, RoHS

Warranty

Standard	2 years

Newland EMEA HQ

+31 (0) 345 87 00 33

info@newland-id.com

newland-id.com

Feel free to contact us or a partner near you

visit newland-id.com/partners

Specifications are subject to change without notice

© Newland EMEA 2023, all rights reserved

Newland

SCANNING MADE SIMPLE