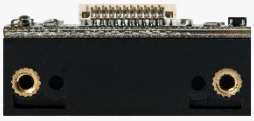
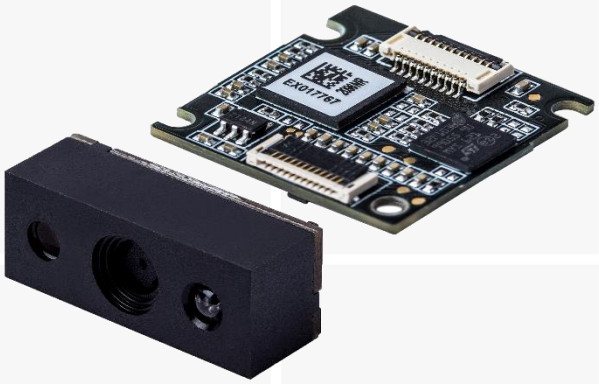
Newland AIDC
Scanning Made Simple





NLS-EM2096

OEM SCAN ENGINE

FEATURES

UIMG® Technology

Armed with Newland's sixth-generation of UIMG® technology, the scan engine can decode even poor quality barcodes with ease. The slim footprint makes this scan engine easier to fit into today's and tomorrow's super-thin devices.

Snappy On-Screen Barcode Capture

The NLS-EM2096 excels at reading on-screen barcodes even when the screen is covered with protective film or set to its lowest brightness level.

Flexible Integration

The decoder board and the imager can be separately mounted, which provides flexibility for integration and suits devices with small space inside.

Low Power Consumption

The advanced NLDX technology incorporated in the scan engine promises low power consumption and prolonged service life.

Multiple Interfaces

The NLS-EM2096 supports USB and TTL-232 interfaces to meet diverse customer needs.

CMOS | 1D Barcode | 2D Barcode | POS

NLS-EM2096

Performance

Image Sensor		640×480 CMOS
Illumination		Red LED 625±10 nm
Symbologies	2D	PDF417, QR Code (QR1/2, Micro), 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-4, Matrix 2 of 5, Industrial 25, Standard 25, Code 39, Codabar, Code 93, Code 11, Plessey, MSI-Plessey, GS1-DataBarTM (RSS), (RSS-14, RSS-Limited, RSS-Expand)
Resolution*		≥3mil
Typical Depth of Field*	EAN-13	70mm-340mm (13mil)
	Code 39	40mm-155mm (5mil)
	PDF 417	45mm-105mm (6.67mil)
	Data Matrix	40mm-105mm (10mil)
	QR Code	45mm-145mm (15mil)
Min. Symbol Contrast*		20%
Scan Angle**		Roll: 360°, Pitch: ±45°, Skew: ±50°
Field of View		Horizontal 44°, Vertical 33.2°

Physical

Interface		TTL-232, USB (HID-KBW, COM Port Emulation, HID-POS)
Operating Voltage		3.3VDC ±5%
Rated Power Consumption		608mW (typical)
Current@5VDC	Operating	190mA (typical), 227mA (max.)
	Idle	10mA
	Sleep	<10uA
Dimensions	Imager	21.5(D)×9.8(W)×8.5(H)mm (max.)
	Decoder Board	21.3(D)×21.3(W)×4.1(H)mm (max.)
Weight		4g

Environmental

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

Accessories

NLS-EVK		Software development board 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℃; Illumination=300lux using incandescent lamp; sample printed barcodes made by Newland.

**Test conditions: Scan Distance= (min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp;

1D: EAN-13 (13mil).

Specifications are subject to change without notice.

Version: V1.4

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