



NLS-EM1300

OEM SCAN ENGINE

○ Advanced Technology

Includes core-technology **UIMG[®]**, which is independently designed and manufactured by Newland Auto-ID. **UIMG[®]** technology includes the optical, CMOS, digitizer, decoder, image processing & embedded systems. The scanner supports all global standard ID barcode symbologies. Its reading performance reaches and exceeds global standards. By using the accessories provided, the user can ideally set up the scanner to its user environment.

○ Ease of integration

Compact (smaller than a paperclip) and easy to integrate design, image capture device with decoder on one board. The small form factor enables easy integration into various solutions.



CCD



ID Barcode



Mobile Terminal



Kiosk



Scan Engine

NLS-EM1300

Performance

Image Sensor		2500 CCD
Illumination		622nm-628nm red LED
Symbologies	ID	Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar, Code 93, Interleaved 2 of 5, ISBN/ISSN, UCC/EAN-128, GSI Databar, etc.
Decoding Speed		300 times/s (max.)
Resolution		≥ 3mil
Depth of Field		EAN-13: 60mm-390mm(13mil) Code 39: 90mm-140mm(5mil)
Min. Symbol Contrast		25%
Scan Angle**		Pitch: ±60°, Skew: ±65°

Physical

Interface		TTL-232
Rated Power Consumption		188mW (typical)
Operating Voltage		3.3VDC±5%
Current@3.3 VDC	Run Mode	57mA (typical), 89mA (max.)
	Idle	28mA
	Sleep	< 11mA
Dimensions		28.8(W)×23.9(D)×11.6(H) mm (max.)
Weight		6.4g

Environmental

Operating Temperature	-20°C - +60°C (-4°F - +140°F)
Storage Temperature	-40°C - +70°C (-40°F - +158°F)
Humidity	5% - 95% (non-condensing)
Ambient Light	0-100,000lux (natural light)

Certificates

Certificates & Protection	FCC Part15 Class B, CE EMC Class B, RoHS
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Accessories

NLS-EVK		Software development board for the NLS-EM1300, equipped with a trigger button, beeper and RS-232 & USB interfaces.
Cable	USB	Used to connect the NLS-EM1300 to a host device.
	RS-232	Used to connect the NLS-EM1300 to a host device.
Power Adapter		DC5V adapter to power the NLS-EM1300 with RS-232 cable. Output: DC 5V, 2A Input: AC 100-240V, 50-60HZ

**Test conditions:

Code 39: 3 Bytes ; Resolution = 10mil; W:N = 3:1 ; PCS = 0.8 ;

Barcode Height = 11mm; Distance = 120mm; T=23°C; Illumination= 200 LUX

Specifications are subject to change without notice.

Version: V4.1

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