

NLS-EM1300 Series

Embedded 1D Barcode Scan Engine



Designed for OEM applications, this high performance CCD scan engine can easily be integrated into various solutions such as kiosks, ticketing machines, PDA's and many more.

Product Features

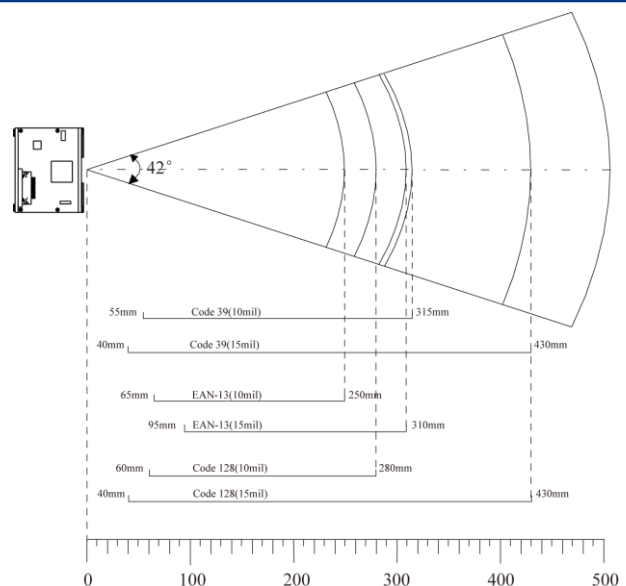
- **Ease of integration**

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.

- **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 1D 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.

Decode Zones



Specifications

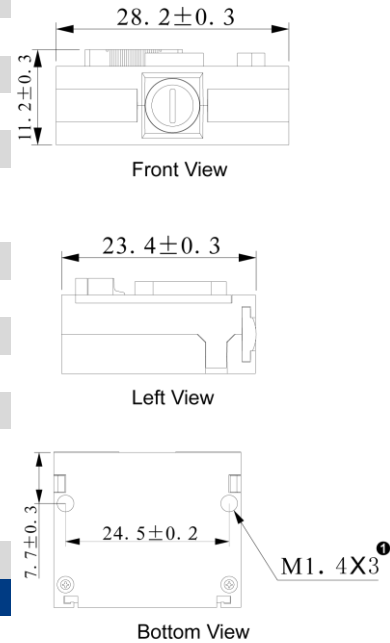
Performance		
Interface	TTL232	
Image Sensor	CCD	
Resolution	2500	
Scan Rate	up to 300 scans/sec	
Decode Rate	200 decodes/sec (default)	
Symbologies	Code128,EAN-13,EAN-8,Code39,UPC-A,UPC-E,Codabar,Inte rleaved 2 of 5,ISBN/ISSN,Code 93, etc.	
Precision	≥ 5mil (Condition:PCS=0.9, testing code: Code 39)	
Light Source	LED(622 nm - 628 nm)	
Light Intensity	265 LUX (130 mm)	
Depth of Scan Field	40mm-430mm	
Print Contrast Signal	≥ 30%	
Sensitivity**	Pitch	±65°@ 0°Roll and 0° Skew
	Roll	±30°@ 0°Pitch and 0° Skew
	Skew	±60°@ 0°Roll and 0° Pitch
Illumination	0 ~ 100,000 LUX	
Mechanical/ Electrical		
Power Consumption	0.33W	
Voltage	DC 3.3 V	
Current	Working	150mA(Max)
	Idle	45mA
	Sleep	1 mA
Weight	6g	
Environment		
Operate Temperature	-20℃ - +60℃	
Storage Temperature	-40℃ - +85℃	
Humidity	5% - 95% (non-condensing)	
Certificates		
FCC Part15 Class B, CE EMC Class B		
Accessories		
Evaluation Kit	The Evaluation Kit for EM1300, with trigger, beep functions and USB, RS232 interfaces.	
RS232 Cable	This cable connect to the RS232 port of EVK1300. With a standard female RS232 port to connect to standard male RS232 port.	
Flex Cable	With a power port to accept power adapter supply. This cable connects to the USB Slave port of EM1300 with a USB-B male port. With a standard USB Slave port to connect to standard USB Host port.	
USB Cable		
Power Adapter	The power adapter for EVK1300 by RS232 Cable. Output: DC5V, 2A; Input: AC100~240V, 50~60HZ	

**Test Condition:

Code39: 3 Bytes ; Resolution = 10mil; W:N = 3:1 ; PCS = 0.8 ;

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

Dimension (Unit: mm)



① Note: Machine Skew Diameter=1.4mm, Depth≤3mm

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Specifications are subject to change without notice.