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.
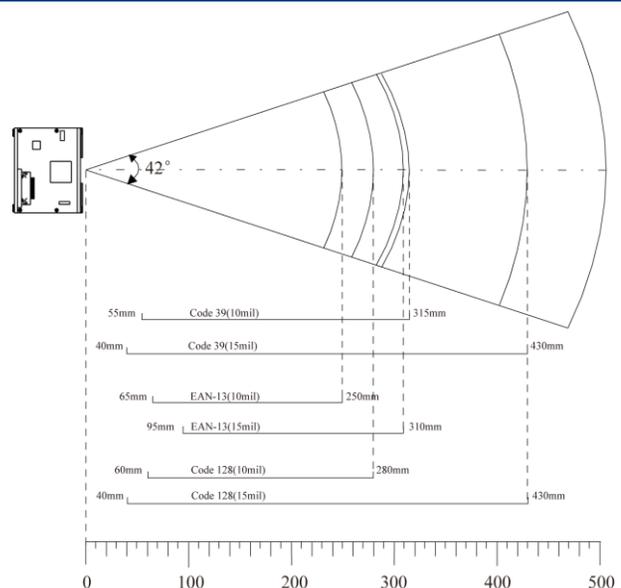
Product Features

- **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.
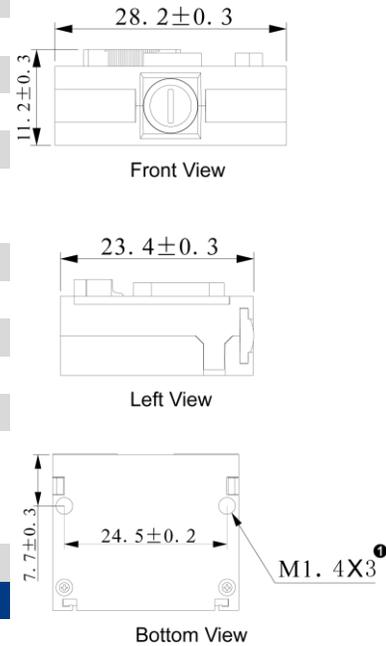
Decode Zones

55mm	Code 39(10mil)	315mm
40mm	Code 39(15mil)	430mm
65mm	EAN-13(10mil)	250mm
95mm	EAN-13(15mil)	310mm
60mm	Code 128(10mil)	280mm
40mm	Code 128(15mil)	430mm

42°

0   100   200   300   400   500

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,Interleaved 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.
Flex Cable	**RS232 Cable**	This cable connect to the RS232 port of EVK1300. With a standard female RS232 port to connect to standard male RS232 port. With a power port to accept power adapter supply.
	USB Cable	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.
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)

28.2±0.3

11.2±0.3

Front View

23.4±0.3

Left View

7.7±0.3

24.5±0.2

M1.4X3 ❶

Bottom View

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

Newland