

# NLS-EM3000 Series

## Embedded 2D Barcode Scan Engine



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

### Product Features

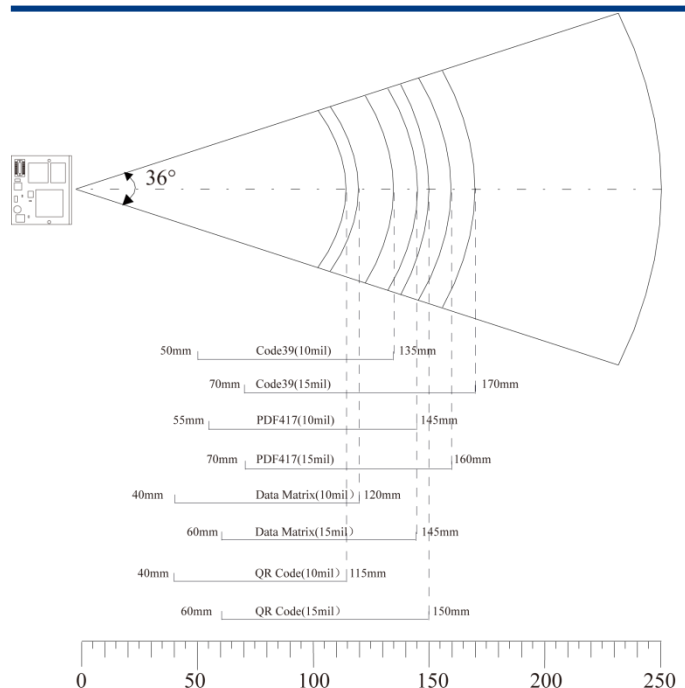
- **Ease of integration**

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<sup>®</sup>**, which is independently designed and manufactured by Newland Auto-ID. **UIMG<sup>®</sup>** 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

### Image Capture

Image Sensor	CMOS
Resolution	752 × 480

### Barcode Scan

Symbologies	2D	PDF417, QR Code(Model 1/2), DataMatrix(ECC200, ECC000, 050, 080, 100,140), Aztec, Maxicode, LP Code, Chinese-Sensible Code
	1D	Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar, China post 25, Interleaved 2 of 5, ISBN/ISSN, Code 93, etc.

Precision	≥ 5mil
Depth of Scan Field	30 mm ~ 240 mm
PCS	≥ 30%

Sensitivity**	Roll	360°@ 0°Pitch and 0° Skew
	Skew	±60° @ 0°Roll and 0° Pitch
	Pitch	±55°@ 0°Roll and 0° Skew

### Illumination

Light Source	LED(622 nm-628 nm)
Light Intensity	330 LUX (130 mm )
Illumination	0 ~ 100,000 LUX

### Mechanical/ Electrical

Voltage	V3.4:DC 3.3 +/- 0.3 V; V6:DC3.3 + 0.3V
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Current	Max	350 mA
	Working	300 mA
	Idle	60 mA

Dimensions	28.0×24.5×13.5 mm
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Weight	18 g
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### Environment

Operating Temperature	-5°C - +45°C
Storage Temperature	-40°C - +60°C
Humidity	5% - 95% ( non-condensing )

### Certificates

FCC Part15 Class B, CE EMC Class B

### Accessories

**Evaluation Kit EVK3000** The Evaluation Kit for EM3000, with trigger, beep functions and USB, RS232 Interfaces.

**RS232 Cable** This cable connect to the RS232 port of EVK3000 with a standard female RS232 port to connect to standard male RS232 port. With a power port to accept power adapter supply.

**Flex Cable**

**USB Cable** This cable connects to the USB Slave port of EM3000 with a USB-B male port. With a standard USB Slave port to connect to standard USB Host port.

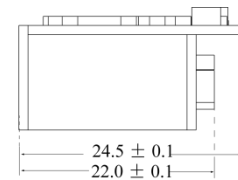
**Power Adapter**

The power adapter for EVK3000 by RS232 Cable.  
Output: DC5V, 2A; Input: AC100~240V, 50~60HZ.

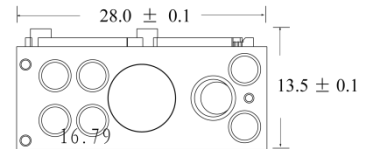
\*\*Test Condition:

Code39: 4 Bytes ; Resolution = 10mil; W:N = 3:1 ; PCS = 1.0 ;  
Barcode Height = 12mm; Distance = 100mm; T=23°C; Illumination= 200 LUX

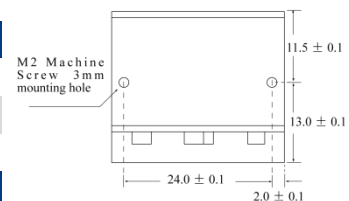
## Dimension (Unit: mm)



Left View



Front View



Top View

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\*Specifications are subject to change without notice.\*