



1D



2D



CMOS



Dual  
Interface



Warranty  
2 Years



CPU



**EM27**

OEM Scan Engines

## Features

### 6th Generation UIMG Technology

The EM27 is armed with Newland's latest-generation scanning technology. Sporting a new decoding algorithm on its CPU processor, the engine delivers excellence no matter what code it's facing. Additionally, it allows the firmware to be adapted to your specific environment and application.

### Optimized for On-Screen codes

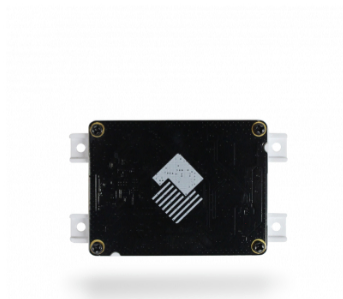
The EM27 is ready for any smartphone or tablet presented to it. The wide scan angle and optimization for near-distance scanning match the intuitive way end-users present their device to a scanner. This keeps lines moving and operations running smoothly.

### Super Slim Form Factor

As Newland's smallest customer-facing scanner yet, the EM27 is perfect for integration into slim, modern designs.

### EasySet Configuration.

The EM27 is compatible with our master configuration software EasySet. Built for Windows OS, this software is a useful tool to integrators for building and testing configurations, cloning and deploying configurations, and updating scanner firmware.



## Suggested industries



Gaming



Healthcare



Hospitality



Parking



Retail

# EM27 Technical specifications

## Data Capture

|                                   |                                                                                                                                                                                                                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1D                                | Code 128, UCC/EAN128, AIM128, EAN-8, EAN-13, ISSN/ISBN, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-14, Standard 25, CodaBar, Industrial 25, Code 39, Code 93, Code 11, Plessey, MSI-Plessey, GS1-128 (UCC/EAN-128), GS1-Databar™ (RSS) (RSS14, RSS-Limited, RSS-Expand, Matrix 2 of 5) |
| 2D                                | PDF 417, Micro PDF 417, QR Code, Micro QR, Data Matrix, Aztec, Maxicode                                                                                                                                                                                                                  |
| Image Sensor                      | 640x480 CMOS                                                                                                                                                                                                                                                                             |
| Illumination                      | White LED                                                                                                                                                                                                                                                                                |
| Depth of Field EAN 13 (13mil)     | 40mm-90mm                                                                                                                                                                                                                                                                                |
| Depth of Field Code 39 (5mil)     | 25mm-70mm                                                                                                                                                                                                                                                                                |
| Depth of Field PDF417 (6.67mil)   | 32mm-55mm                                                                                                                                                                                                                                                                                |
| Depth of Field DataMatrix (10mil) | 35mm-60mm                                                                                                                                                                                                                                                                                |
| Depth of Field QR (15mil)         | 15mm-75mm                                                                                                                                                                                                                                                                                |

## Performance

|                          |         |
|--------------------------|---------|
| Minimal Print Contrast   | 25%     |
| Scan Angle Roll          | 360°    |
| Scan Angle Pitch         | ±60°    |
| Scan Angle Skew          | ±60°    |
| Field of View Horizontal | 68°     |
| Field of View Vertical   | 51°     |
| Motion Tolerance         | 1.0 m/s |

## Physical

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| Dimensions (mm)          | With foam: 55.0 (W) x 34.4 (D) x 13.2 (H)mm (max), With Glass: 55.0 (W) x 34.4 (D) x 12.7 (H)mm (max) |
| Weight                   | 14.2g (With Foam), 17.9g (With Glass)                                                                 |
| Interfaces               | RS-232, USB                                                                                           |
| Notifications            | Beeper                                                                                                |
| Input Voltage            | 5VDC±5%                                                                                               |
| Current @ 5VDC Operating | 196mA (typical), 616mA (max)                                                                          |
| Current @ 5VDC Standby   | 35mA                                                                                                  |
| Power Consumption        | 980mW (typical)                                                                                       |

## Environmental

|                       |                              |
|-----------------------|------------------------------|
| Ambient Light         | 0~100,000lux (natural light) |
| Operating Temperature | -20°C to 60°C                |
| Storage Temperature   | -40°C to 70°C                |
| Humidity              | 5% to 95% (non-condensing)   |

## Accessories

|          |                                                |
|----------|------------------------------------------------|
| Optional | 8-PIN USB cable 1,0m or 8-PIN RS232 cable 1,0m |
|----------|------------------------------------------------|

### Newland EMEA HQ

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Feel free to contact us or a partner near you

visit [newland-id.com/partners](http://newland-id.com/partners)

Specifications are subject to change without notice

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## Certifications

|          |                                          |
|----------|------------------------------------------|
| Hardware | FCC Part15 Class B, CE EMC Class B, RoHS |
|----------|------------------------------------------|