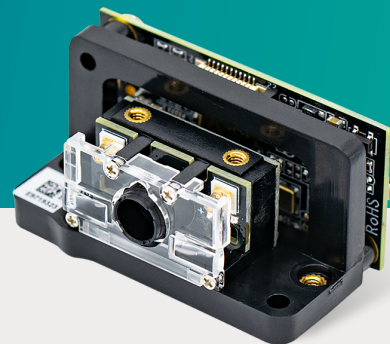




# EM2037 V4

Scan Engines



## Features

### 6th Generation UIMG Technology.

The EM2037 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 faced with. Additionally, it allows the firmware to be adapted to your specific environment and application.

### Advanced Megapixel Technology.

Thanks to advanced megapixel imaging technology, the EM2037 captures high-resolution images with impressive speed and ease. It is particularly suited for scanning from a screen. Additionally OCR, high-density, dual barcodes and DotCode prove no challenge for this flagship scan engine.

### Customizable Lenses.

The EM2037 offers a choice of Standard Range (SR) or High Density (HD) lens. This allows you to match the engine configuration to your scanning distance requirements.

### Intelligent Sensors.

The EM2037's innovative AEC (Automatic Exposure Control) sensor automatically adjusts to optimal light conditions. This ensures high-contrast images when reading off mobile screens or in dark environments.

### Direct Connection to PC.

The EM2037 is set up with an additional 5-pin connector on its decoder board. This way, you can directly connect the engine to your computer via a universal USB interface.

### EasySet Configuration.

The EM2037 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.

**2** Years Full  
Warranty



# EM2037 V4

## Data Capture

|                                    |                                                                                                                                                                                                                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1D                                 | All major 1D symbologies, including EAN-8, EAN-13, UPC-E, UPC-A, Code 128, UCC/EAN128, I2Of5, ITF-14, ITF-6,Matrix 25, CodaBar, Code 39, Code 93, ISSN, ISBN, Industrial 25, Standard 25,Plessey, Code11, MSI-Plessey, UCC/EAN Composite, GS1 Databar, China Post 25,Code 49, Code 16K. |
| 2D                                 | All major 2D symbologies, including PDF 417, QR Code, Micro QR, Data Matrix, Aztec, Maxicode,Chinese Sensible Code, GM Code, Micro PDF417 Code, Code One.                                                                                                                               |
| Aiming                             | Red LED                                                                                                                                                                                                                                                                                 |
| Depth of Field Code 39 (3.3mil)    | HD: 50 mm - 90 mm                                                                                                                                                                                                                                                                       |
| Depth of Field Code 39 (5mil)      | SR: 70 mm - 180 mm, HD: 50 mm - 105 mm                                                                                                                                                                                                                                                  |
| Depth of Field DataMatrix (10mil)  | SR: 55 mm - 220 mm                                                                                                                                                                                                                                                                      |
| Depth of Field DataMatrix (6.7mil) | HD: 45 mm - 75 mm                                                                                                                                                                                                                                                                       |
| Depth of Field EAN 13 (13mil)      | SR: 55 mm - 365 mm                                                                                                                                                                                                                                                                      |
| Depth of Field PDF417 (5mil)       | HD: 45 mm - 95 mm                                                                                                                                                                                                                                                                       |
| Depth of Field PDF417 (6.67mil)    | SR: 55 mm - 175 mm                                                                                                                                                                                                                                                                      |
| Field of View Horizontal           | 39°                                                                                                                                                                                                                                                                                     |
| Field of View Vertical             | 24°                                                                                                                                                                                                                                                                                     |
| Illumination                       | Red LED                                                                                                                                                                                                                                                                                 |
| Image Sensor                       | 1280 x 800 CMOS                                                                                                                                                                                                                                                                         |
| Minimal Print Contrast             | 25%                                                                                                                                                                                                                                                                                     |
| Scan Angle Pitch                   | ±55°                                                                                                                                                                                                                                                                                    |
| Scan Angle Roll                    | 360°                                                                                                                                                                                                                                                                                    |
| Scan Angle Skew                    | ±55°                                                                                                                                                                                                                                                                                    |

## Physical

|                          |                                                       |
|--------------------------|-------------------------------------------------------|
| Current @ 5VDC Operating | 276.6 mA (typical), 332.3 mA (max)                    |
| Current @ 5VDC Standby   | 57.4 mA (typical)                                     |
| Dimensions               | 39.5(W) × 25.4(D) × 20(H) mm                          |
| Housing                  | PC, PMMA                                              |
| Input Voltage            | 3.3 VCD via 12-pin FPC; 5 VCD via 5-pin box connector |
| Interfaces               | TTL-232, USB                                          |
| Power Consumption        | 1456.5 mW (typical)                                   |
| Power Supply Input       | 5 VDC (1.5 A)                                         |
| Power Supply Output      | AC100 to 240 V (50 to 60 Hz)                          |
| Weight                   | 11 g                                                  |

## Environmental

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

Software

|                     |         |
|---------------------|---------|
| Configuration Tools | EasySet |
|---------------------|---------|

Certifications

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| Certifications Hardware | CE EMC Class B, RoHS, IEC 62471, FCC Part15 Class B |
|-------------------------|-----------------------------------------------------|

Warranty

|                   |         |
|-------------------|---------|
| Warranty Standard | 2 Years |
|-------------------|---------|

Accessories

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| Accessories Optional | Software development board, USB cable, RS-232 cable, Adapter |
| Accessories Standard | 75mm flexible flat cable (FFC)                               |