











EM2037 V4

Scan Engines

 1D & 2D	 CMOS	 CPU	 Dual Interface	 EasySet	 LED aimer
 Megapixel	 Superior	 USB	 Warranty 2 Years		



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



TECHNICAL SPECIFICATIONS

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 (1.3mil)	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	USB, TTL-232
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
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Certifications

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

Warranty Standard	2 Years
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Accessories

Accessories Optional

USB cable, RS-232 cable, Adapter, Software development board

Accessories Standard

75mm flexible flat cable (FFC)



Newland AIDC EMEA

Feel free to contact us or a partner near you.

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Specifications are subject to change without notice

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