



1D & 2D



CMOS



CPU



Superior



Megapixel



White
Illumination



Laser
aimer



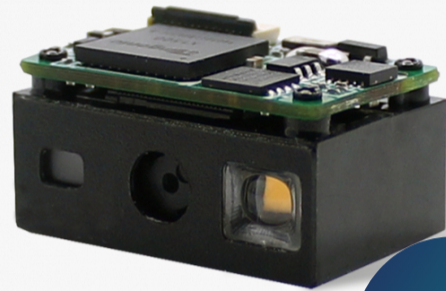
Dual
Interface



EasySet



Warranty
2 Years



EM50S

OEM Scan Engines

Features

6th Generation UIMG Technology.

The EM50S series 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 Scanning.

Thanks to advanced megapixel imaging technology, the EM50S series captures high-resolution images with impressive speed and ease. Even OCR, high-density, dual barcodes and DotCode prove no challenge for the EM50S series.

Compact and Dynamic Design.

The EM50S series is compact, lightweight and integration-friendly. With 2 versions available, you can select the perfect engine for you. The EM50S-10 offers a compact, all-in-one housing, while the EM50S-20's separate mounting of the decoder board and imager

adds flexibility, ideal for integrations into thin and lightweight equipment.

Intelligent Sensors.

The EM50S series' innovative AEC (Automatic Exposure Control) sensor automatically adjusts to the light conditions. This ensures high-contrast images when reading off mobile screens or in dark environments.

Precision Aiming.

A highly visible laser aimer adds an extra level of accuracy, guaranteeing you hit the codes you intend to scan. This visual guidance is specifically suited to improve scan precision in portable integrations.

EasySet Configuration.

The EM50S series 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



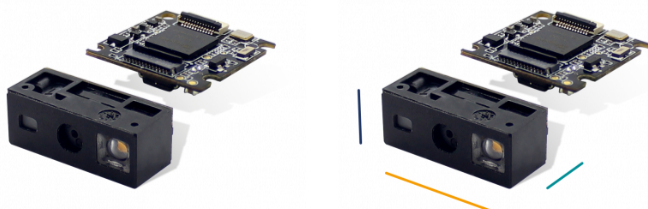
Healthcare



Industrial



Retail



8.6 mm

21.5 mm

10.2 mm

EM50S Technical specifications

Data Capture

1D	All major 1D symbologies, including Code 11, Code 128, Code 39, GS1 128 (UCC/EAN-128), AMI 128, Codabar, ISBT 128, Code 93, UPC-A, UPC-E, Coupon, GS1 Composite, EAN-13, EAN-8, ISSN, ISBN, Interleaved 2 of 5, Matrix 2 of 5, ITF14, ITF6, Industrial 25, Standard 25, China Post 25, MSI Plessey, Plessey, GS1 Databar (RSS), Code 49, Code 16K.
2D	All major 2D symbologies, including PDF417, QR Code, Micro QR, Data Matrix, Aztec, MaxiCode, GM Code, Chinese Sensible Code, MicroPDF417, Code One
Image Sensor	1280x800 CMOS
Illumination	White LED
Aiming	650nm laser diode
Depth of Field EAN 13 (13mil)	70-500mm
Depth of Field Code 39 (5mil)	90-265mm
Depth of Field PDF417 (6.67mil)	70-225mm
Depth of Field DataMatrix (10mil)	65-215mm
Depth of Field QR (15mil)	40-295mm

Performance

Minimal Print Contrast	25%
Scan Angle Roll	360°
Scan Angle Pitch	±60°
Scan Angle Skew	±60°
Field of View Horizontal	42°
Field of View Vertical	28°

Physical

Dimensions (mm)	21.7(W)x14.7(D)x11.9(H)mm
Weight	3.9g
Input Voltage	3.3VDC±5%
Current @ 3.3VDC Operating	269mA (RMS typical), 399mA (RMS max.)
Current @ 3.3VDC Standby	<70mA
Power Consumption	888mW (typical)

Environmental

Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 95% (non-condensing)

Accessories

Standard	75mm flexible flat cable (FFC)
Optional	EVK3030-U, RS232 Cable, Adapter, USB Cable

Software

Configuration Tools	EasySet
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Feel free to contact us or a partner near you

visit newland-id.com/partners

Specifications are subject to change without notice

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EM50S Technical specifications

Certifications

Hardware	CE EMC Class B, RoHS, FCC Part15 Class B
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Warranty

Standard	2 years
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