



1D & 2D



Chip



Standard



CMOS



Red
Illumination



Laser
aimer



Compact
Size



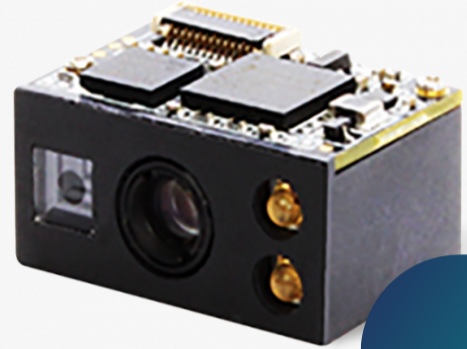
Dual
Interface



EasySet



Warranty
2 Years



EM3396V2

OEM Scan Engines

Features

Newland's 6th Generation UIMG Technology.

The EM3396 is armed with Newland's latest scanning technology, including our new decoder chip 0610. By leveraging our own technology, Newland has further perfected the engine's overall value, simplicity and scan performance, supporting all common 1D, 2D and Aztec codes.

Consistent Allround Performance.

The overall scanning performance of the EM3396 is convincing from paper, plastic and smartphones alike. The engine's CMOS sensor of 752 x 480 pixels ensures consistent decoding on 1D and 2D barcodes. As a result, you can count on speed and efficiency, even when codes are underlit or damaged.

Precision Aiming.

The EM3396's highly visible laser aimer adds an extra level of user

accuracy when hitting the codes you intend to scan. This visual guidance is specifically suited to improve scan precision in wearable solutions.

Optimized for Wearable Solutions.

The EM3396 can aim, illuminate and decode barcodes while drawing as little current from the host device as possible. Combined with its lightweight design and visible laser aimer make the EM3396 ideal for integration in wearable scanning solutions.

EasySet Configuration.

The EM3396 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.



11.8 mm

21.5 mm

15.3 mm

Suggested industries



Entertainment



Healthcare



Hospitality



Retail

EM3396V2 Technical specifications

Data Capture

1D	All major 1D symbologies, including Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, Plessey, MSI-Plessey.
2D	All major 2D symbologies, including PDF417, Data Matrix (ECC200, ECC000, 050, 080, 100, 140), QR Code, Aztec, Chinese Sensible Code.
Image Sensor	752×480 CMOS
Illumination	Red LED 625nm±10nm
Aiming	Laser diode 650nm
Depth of Field EAN 13 (13mil)	60mm-290mm (13mil)
Depth of Field Code 39 (5mil)	55mm-165mm(5mil)
Depth of Field PDF417 (6.67mil)	55mm-135mm (6.7mil)
Depth of Field DataMatrix (10mil)	55mm-130mm (10mil)
Depth of Field QR (15mil)	45mm-175mm (15mil)

Performance

Decoder	ASIC (0610)
Minimal Print Contrast	20%
Scan Angle Roll	360°
Scan Angle Pitch	±55°
Scan Angle Skew	±55°
Field of View Horizontal	36°
Field of View Vertical	23°

Physical

Dimensions (mm)	21.5(W)×15.3(D)×11.8(H)mm
Weight	5g
Interfaces	RS-232, USB
Input Voltage	3.3VDC±5%
Current @ 3.3VDC Operating	116 mA (typical), 195mA (max.)
Current @ 3.3VDC Standby	9,1 mA
Sleep Current	< 0,1 mA
Power Consumption	383 mW

Environmental

Ambient Light	0~100,000lux
Operating Temperature	-20°C to 55°C (-4°F to 131°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5%~95% (non-condensing)

Accessories

Standard	75mm flexible flat cable (FFC)
----------	--------------------------------

Newland EMEA HQ

+31 (0) 345 87 00 33

info@newland-id.com

newland-id.com

Feel free to contact us or a partner near you

visit newland-id.com/partners

Specifications are subject to change without notice

© Newland EMEA 2023, all rights reserved



EM3396V2 Technical specifications

Optional	EVK3030-U, RS232 Cable, Adapter
Software	
Configuration Tools	EasySet
Certifications	
Hardware	CE EMC Class B, FCC Part15 Class B
Warranty	
Standard	2 years