



1D & 2D



Chip



Standard



CMOS



Red
Illumination



Power
consumption



Compact
Size



LED
aimer



Dual
Interface



EasySet



Warranty
2 Years



EM3296V4

OEM Scan Engines

Features

Newland's 6th Generation UIMG Technology.

The EM3296 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 EM3296 is convincing from paper, plastic and smartphones alike. The engine's CMOS sensor of 640 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. Notable is also its ability to scan successfully from cylindrical surfaces.

Outstanding Power Efficiency.

The EM3296 can aim, illuminate and decode barcodes while

drawing minimal current from the host device. It prolongs battery life compared to like-for-like scanners, as well as offering an eco-conscious solution.

Near Distance Scanning.

The EM3296 leverages a wide scan angle, red illumination and LED aimer to ensure successful scans, even in low-light environments. This also optimizes the engine's ability to scan codes from up-close.

EasySet Configuration.

The EM3296 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



Entertainment



Healthcare



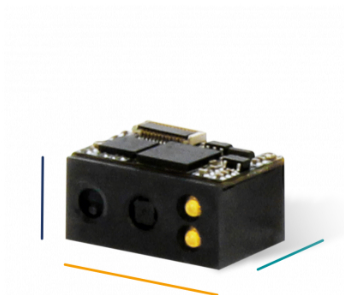
Hospitality



Retail



Warehousing



11.8 mm

21.8 mm

15.3 mm

EM3296V4 Technical specifications

Data Capture	
1D	All major 1D symbologies, including Code128, UCC/EAN-128, AIM128, EAN-8, EAN-13, ISBN/ISSN, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-4, Matrix 2 of 5, Industrial 25, Standard 25, Code 39, Codabar, Code 93, Code 11, Plessey, MSI-Plessey, GS1-DataBarTM(RSS), (RSS-14, RSS-Limited, RSS-Expand).
2D	All major 2D symbologies, including PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140), Aztec, Chinese Sensible Code.
Image Sensor	640 x 480 (CMOS)
Illumination	Red LED (625±10nm)
Aiming	Red LED (625±10nm)
Scan Modes	Batch Mode, Trigger Mode, Sense Mode, Continuous Mode
Scan Rate	100 frames per second
Depth of Field EAN 13 (13mil)	50-365mm
Depth of Field Code 39 (5mil)	40-165mm
Depth of Field PDF417 (6.67mil)	45-115mm
Depth of Field DataMatrix (10mil)	35-115mm
Depth of Field QR (15mil)	35-145mm

Performance	
Decoder	ASIC (0610)
Minimal Print Contrast	25%
Scan Angle Roll	360°
Scan Angle Pitch	±50°
Scan Angle Skew	±50°
Field of View Horizontal	44°
Field of View Vertical	33.2°

Physical	
Dimensions (mm)	21.8(W)×15.3(D)×11.8(H)mm (max.)
Weight	4g
Material	PP,PPA
Interfaces	TTL-232, USB
Input Voltage	3.3VDC±5%
Current @ 3.3VDC Operating	100mA (typical), 168mA (max.)
Current @ 3.3VDC Standby	8,1 mA
Power Consumption	330 mW

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

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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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EM3296V4 Technical specifications

Accessories

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

Software

Configuration Tools	EasySet
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Certifications

Hardware	CE, FCC, RoHS, EN 62471
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Warranty

Standard	2 years
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