


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.

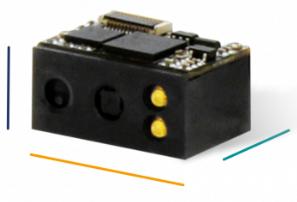
Near Distance Scanning.

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



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) |

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

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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 |
|---------------------|---------|

Certifications

| | |
|----------|-------------------------|
| Hardware | CE, FCC, RoHS, EN 62471 |
|----------|-------------------------|

Warranty

| | |
|----------|---------|
| Standard | 2 years |
|----------|---------|

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info@newland-id.com

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