





FEATURES

Advanced technology.

Armed with Newland's fifth-generation of UIMG technology, the scan engine can decode even poor quality barcodes with ease.

Miniature and ultralight form factor.

Ultra-compact, light and integrator-friendly, the EM3296 caters for miniaturization needs of OEM applications.

Multi-interface.

The EM3296 supports USB and TTL-232 interfaces to meet diverse customer needs.

Two-in-one design.

Seamless integration of image sensor and decoder board makes the scan engine small, lightweight and easy to fit into even the most space-constrained equipment.

Outstanding power efficiency.

The advanced NLDC technology incorporated in the scan engine helps reduce the power consumption and prolong the service life of the device.

EM3296 OEM scan engine

| Performance | Image Sensor | | 640×480 CMOS |
|----------------|-------------------------|-------------|--|
| | Illumination | | Red LED 625±10 nm |
| | Aiming | | Red LED 625±10 nm |
| | Symbologies | 2D | PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC200, |
| | | | ECC000, 050, 080, 100, 140), Chinese Sensible Code |
| | | 1D | Code 128, 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-DataBar TM (RSS), (RSS-14, RSS-Limited, RSS-Expand) |
| | Resolution* | | ≥4mil |
| | Typical Depth of Field* | EAN-13 | 50mm-365mm (13mil) |
| | | Code 39 | 40mm-165mm (5mil) |
| | | Data Matrix | 35mm-115mm (10mil) |
| | | QR Code | 35mm-145mm (15mil) |
| | | PDF 417 | 45mm-115mm (6.67mil) |
| | Symbol Contrast* | | ≥25% |
| | Scan Angle** | | Roll: 360°, Pitch: ±50°, Skew: ±50° |
| | Field of View | | Horizontal 44°, Vertical 33.2° |
| Mechanical/ | Interface | | TTL-232, USB (HID-KBW, COM Port Emulation, HID-POS) |
| Electrical | Rated Power Consumption | | 437mW (typical) |
| | Operating Voltage | | 3.3 VDC±10% |
| | Current@3.3VDC | Operating | 141mA (typical), 198mA (max.) |
| | | Standby | 10mA |
| | | Sleep | <10uA |
| | Dimensions | | 21.8(W)×15.3(D)×11.8(H)mm (max.) |
| | Weight | | 4g |
| Environmental | Operating Temperature | | -20°C to 50°C (-4°F to 122°F) |
| | Storage Temperature | | -40°C to 70°C (-40°F to 158°F) |
| | Humidity | | 5% to 95% (non-condensing) |
| | Ambient Light | | 0~100,000lux |
| Certifications | , | | FCC Part15 Class B , CE EMC Class B |
| Accessories | NLS-EVK | | Software development board, equipped with a trigger button, |
| | | | beeper and RS-232 & USB interfaces. |
| | Cable | USB | Used to connect the NLS-EVK to a host device. |
| | | RS-232 | Used to connect the NLS-EVK to a host device. |
| | Power Adapter | | DC5V power adapter used to provide power for the NLS-EVK |

^{*}Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample barcodes made by Newland.

Newland EMEA HQ +31 (0) 345 87 00 33

info@newland-id.com newland-id.com

D-A-C-H

+49 (0) 6182 82916-16 info@newland-id.de

Benelux

+31 (0) 345 87 00 33 benelux@newland-id.com

Italy +39 (0) 342 0562227 italy@newland-id.com **United Kingdom**

+44 (0) 1442 212020 sales@newland-id.co.uk

Turkey

+90 (0) 544 538 40 49

turkey@newland-id.com

South Africa Gauteng: +27 (0) 11 553 8010 Cape Town: +27 (0) 21 9140819 info@newland-id.co.za

+39 (0) 345 8804096 france@newland-id.com

Ibérica

+34 (0) 93 303 74 66 info@newland-id.es

Nordic & Baltic +46 (0) 70 88 47 767

nordic@newland-id.com

Russia

+31 (0) 345 87 00 33 russia@newland-id.com

Middle East

+39 (0) 345 8804096 middleeast@newland-id.com

Iran

+90 (0) 544 538 40 49 iran@newland-id.com

^{**}Test conditions: Scan Distance=(min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp; 2D: QR Code; 10 Bytes; Resolution=15mil; PCS=0.8.

^{*}Specifications are subject to change without notice.*