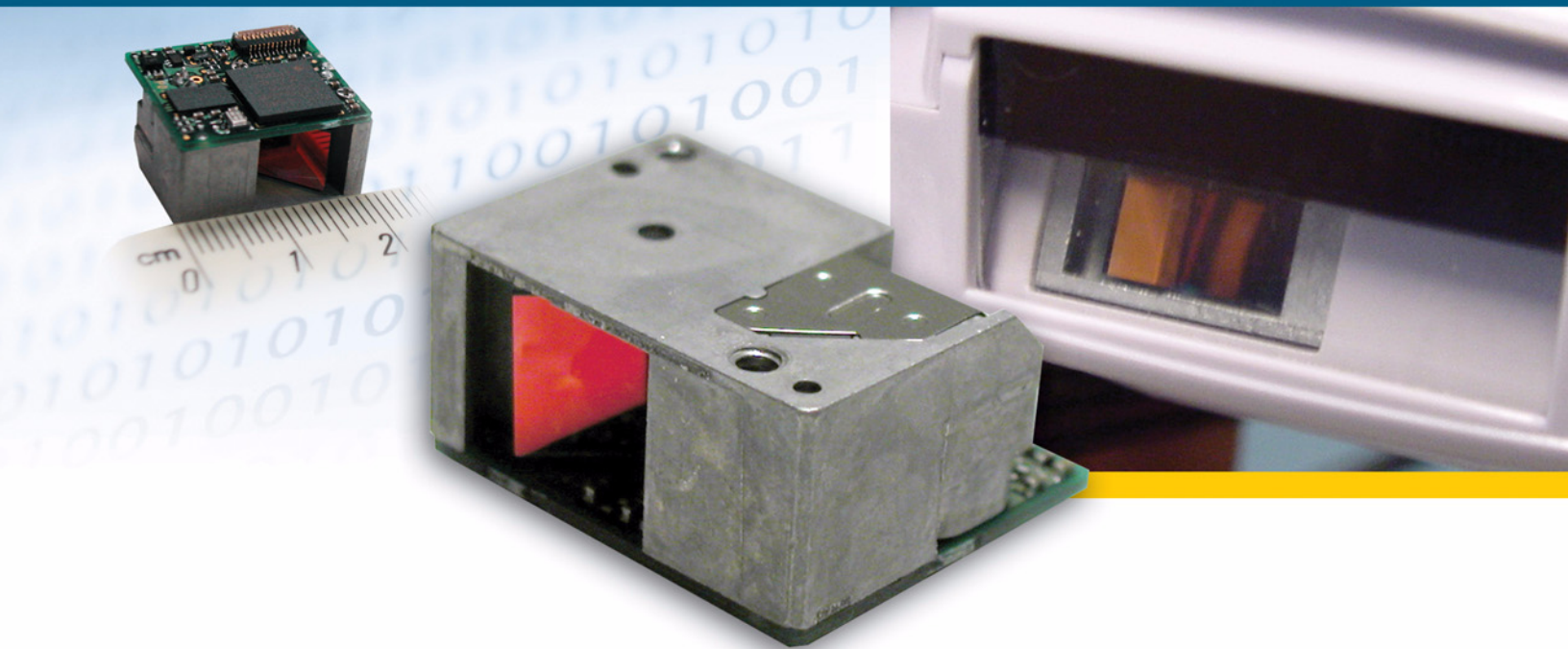


The MDL 2000 is a cost-effective way to add high performance scanning of linear barcodes inside an OEM unit. This space-saving, easy-to-install module delivers an accurate aiming line and 100 scans per second and integrates perfectly when mounted in either mobile or stationary applications. The MDL 2000 also offers a wide variety of configurable options which may be set using serial commands.

1D LASER MODULE

MDL 2000

Decoded barcode laser scanner



Features

- Laser diode
- Bi-directional scanning
- Classification I laser
- Small (<2cm) and light-weight (<10 grams)
- Minimal power consumption
- Configurable parameters

Benefits

- Variable-distance reading
- Improves reading of poor-quality bar codes
- Optimal safety for eyes
- Easy integration into tight spaces
- Ideal for integrating into a mobile device
- More than 100 programmable options

Cabled

Wireless

Stationary

OEM

OPTICON
always scanning for new ID's

Specifications

MDL 2000 Decoded barcode laser scanner

Electrical specifications

Voltage requirement: 3.3 V (+/- 10%)

Current consumption: 105 mA

Optical specifications

Light source: 650 nm visible laser diode

Scan method: vibrating mirror

Scan rate: 100 scans/sec

Decode rate: 100 decodes/sec

Reading pitch angle: +35° - +0°, 0° - -35°

Reading skew angle: -8° - -50°, +8° - +50°

Reading tilt angle: +20° - +0°, 0° - -20°

Curvature: R>15 (EAN8), R>20 (EAN13)

Min. PCS value: 0.45

Depth of field: 70 - 650 mm / 2.76 - 25.59 inches (CODE 39 PCS0.9, resolution 1.00), 50 - 420 mm / 1.97 - 16.54 inches (CODE 39 PCS0.9, resolution 0.5), 50 - 260 mm / 1.97 - 10.24 inches (CODE 39 PCS0.9, resolution 0.25), 50 - 150 mm / 1.97 - 5.91 inches (CODE 39 PCS0.9, resolution 0.15), 60 - 120 mm / 2.36 - 4.72 inches (CODE 39 PCS0.9, resolution 0.127)

Identification

Supported barcode symbologies (1D): JAN/UPC/EAN/Add-on - NW-7 / Codabar incl. ABC, CX - Chinese post matrix 2of5 - Code 11 - Code 39 - Code 39 Full ASCII - Code 93 - Code 128 - IATA - Industrial 2of5 - Interleaved 2of5 - Italian Pharmaceutical - ISBN - ISMN - ISSN - Korean Postal Authority code - Matrix 2of5 - MSI/Plessey - UK/Plessey - RSS-14 (incl. CC-A/B) - RSS Limited (incl. CC-A/B) - RSS Expanded (incl. CC-A/B) - S-Code - Telepen - Tri-Optic - UCC/EAN-128 (incl. CC-A/B/C)

Supported 2D code symbologies: MicroPDF417 (incl. CC-A/B) - PDF417 (incl. CC-C)

Environmental specifications

Temperature in operation: -20° - +65°C / -4° - +149°F

Temperature in storage: -30° - +70°C / -22° - +158°F

Humidity in operation: 5% to 90% (non-condensing)

Humidity in storage: 5% to 90% (non-condensing)

Ambient white light immunity: 4,000 lx max

Ambient fluorescent light immunity: 4,000 lx max

Ambient direct sun light immunity: 80,000 lx max

Shock drop test: 1.8 m drop onto concrete surface

MBTF: 30,000 hours, laser diode and mirror scan unit 10,000 hours

Physical specifications

Dimensions: (W x D x H) 20.4 x 18 x 11.2 mm / 0.79 x 0.71 x 0.44 inches

Weight body: Ca. 4.7 g / 0.17 ounces

Regulatory

Laser safety class: IEC 825, Class I laser product

EMC: EN 55022, EN 55024

Environmental: RoHS, WEEE

Depth of field

Unit: mm (inches)

