

MDI1000

2D CMOS Imager

+ Related products

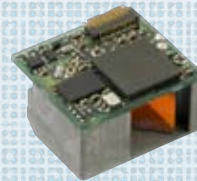
MDI2200

- OEM
- Camera + decoderboard
- 2D CMOS imager with auto-focus



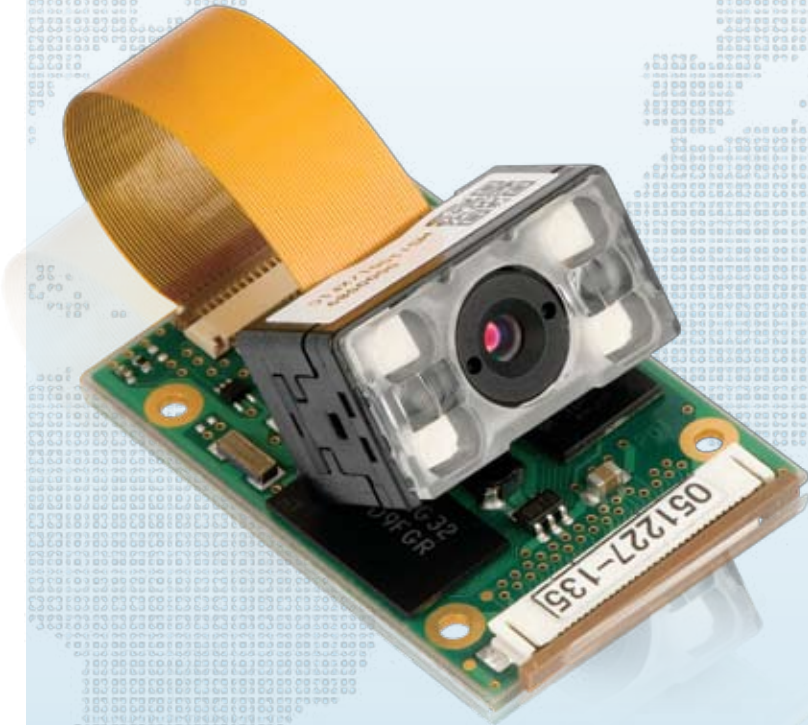
MDL2001

- OEM
- Decoded device
- Barcode laser scanner
- 20.4 x 11 x 14 mm (w x h x d)



MDL1000

- OEM
- Decoded device
- Barcode laser scanner
- 28 x 7.8 x 18 mm (w x h x d)



+ Basic Product Specifications

Communication

- Serial CMOS: 30 pin FFC connector

Power

- Voltage requirement: 3.3V ± 5%
- Current consumption: Max. 410mA

2D Imager Optics

- Light source: Illumination 4 red LEDs 630 nm, aiming 2 green LEDs 527 nm
- Scan method: CMOS area sensor, SXGA (1.3 million pixels), gray scale
- Scan rate: Up to 30 fps
- Reading pitch angle: -50 to 0°, 0 to +50°
- Reading skew angle: -50 to -0°, +8 to +0°
- Reading tilt angle: 360°
- Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil, *0.169 mm / 7 mil*, **0.889 mm / 35 mil**, at Code39 & PDF417, *Data Matrix & QR Code*, **Maxi Code**
- Min. PCS value: 0.45
- Field of view: Horizontal 47°, Vertical 37.5°
- Depth of field: At PCS 0.9
*50 - 245 mm / 1.97 - 9.65 in

Supported Symbolologies

- Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISSN-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- Postal code: Chinese Post, Korean Postal Authority code
- 2D code: Aztec Code, Aztec Runes, Codablock F, Composite codes, Data Matrix (ECC200/ECO-140), Maxi Code (mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code

Durability

- Temperature in operation: -20 to 55 °C / -4 to 131 °F
- Temperature in storage: -25 to 70 °C / -13 to 158 °F
- Humidity in operation: 5 - 90% (non-condensing)
- Humidity in storage: 5 - 90% (non-condensing)
- Ambient light immunity: Fluorescent 10,000 lx max, Direct sun 100,000 lx max, Incandescent 10,000 lx max
- Drop test: packed in dummy case 1.8 m / 6 ft drop onto concrete surface
- MBTF: 50,000 hours

Physical

- Dimensions (w x h x d):
Camera (CMOS)
21.5 x 11.8 x 14.2 mm / 0.85 x 0.46 x 0.56 in,
PCB (decoder board)
25.2 x 4.2 x 39.0 mm / 0.99 x 0.17 x 1.54 in
- Weight body:
Camera (CMOS) Ca. 3.9 g / 0.14 oz,
PCB (decoder board) Ca. 3.8 g / 0.13 oz

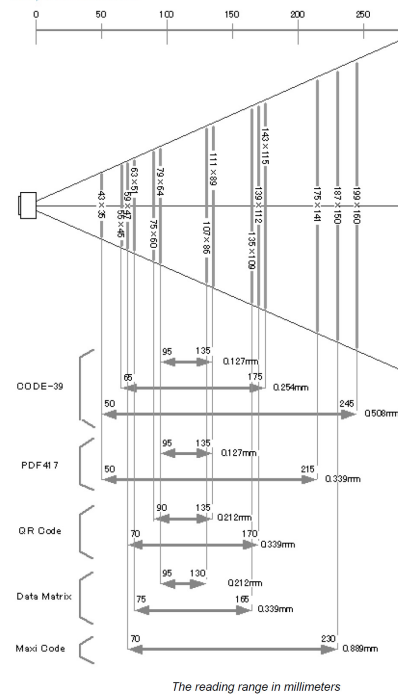
Regulatory & Safety

- Product compliance: CE, FCC, VCCI, RoHS

Sold separately

- MEK1000 SDK (Development board, Getting started disc, RS232 cable)
- Connection cable
Power supply 100-240V/0.5A, 50/60 Hz, 5V/2A

Depth of Field



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- **The Netherlands:** Hoofddorp
- **France:** Issy Les Moulineaux
- **Germany:** Dietzenbach
- **Italy:** Castel Maggiore (BO)
- **Spain:** Valencia
- **Sweden:** Järfälla
- **United Kingdom:** Luton, Bedfordshire
- **U.S.A.:** Renton, WA
- **Japan:** Warabi City

- **Taiwan:** Taipei
- **P.R.China:** Shanghai
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- **Brazil:** São Paulo

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