

OPTICON

OEM

MDI2000

2D CMOS with auto-focus



Communication

- Serial CMOS: 14 pin FFC connector

Power

- Voltage requirement: 3.3V ± 5%
- Current consumption: Max. 390mA

2D Imager Optics

- Light source: Aiming laser diode, illumination LEDs
- Scan method: CMOS area sensor, 900 x 512 pixels, gray scale
- Scan rate: Up to 80 fps, after auto-focus activation (100 ms after triggering)
- Image format: Bitmap, JPEG
- Reading pitch angle: -50 to 0°, 0 to +50°
- Reading skew angle: -50 to 0°, 0 to +50°
- Reading tilt angle: 360°
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil
- Min. PCS value: 0.45
- Field of view: Horizontal 40°, Vertical 23°
- Depth of field: At *QR Code* and Code 39
 45 - 65 mm / 1.77 - 2.56 in (0.127 mm / 5 mil),
 45 - 230 mm / 1.77 - 9.06 in (0.381mm / 15 mil),
 45 - 110 mm / 1.77 - 4.33 in (0.127 mm / 5 mil),
 50 - 260 mm / 1.97 - 10.24 in (0.254 mm / 10 mil),
 120 - 1000 mm / 4.72 - 39.37 in (1.0 mm / 39 mil)

Supported Symbologies

- 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, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET
- 2D code: Aztec Code, Aztec Runes, Chinese Sensible code, 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: -40 to 70 °C / -40 to 158 °F
- Humidity in operation: 5 - 85% (non-condensing)
- Humidity in storage: 5 - 85% (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 1.5 m / 5 ft drop onto concrete surface
- MBTF: 50,000 hours

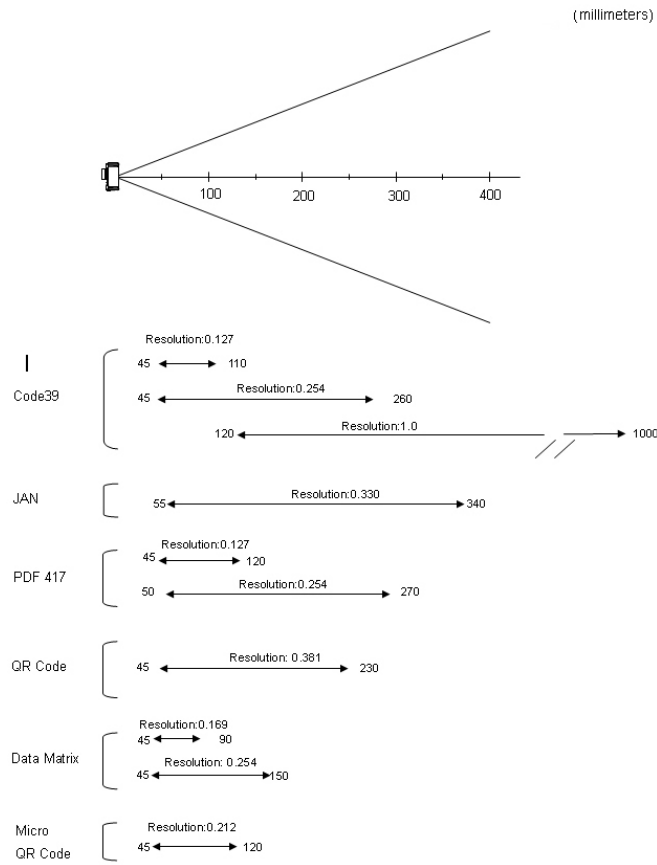
Physical

- Dimensions (w x h x d):
 Camera (CMOS)
 27.1 x 13.2 x 13.8 mm / 1.07 x 0.52 x 0.53 in,
 PCB (decoder board)
 18.5 x 4.8 x 30.3 mm / 0.73 x 0.19 x 1.19 in
- Weight body:
 Camera (CMOS) Ca. 6 g / 0.21 oz,
 PCB (decoder board) Ca. 4 g / 0.14 oz

Regulatory & Safety

- IEC 608215-1 Class 2, FDA CDRH Class II

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
- **Australia:** Kariiong
- **Brazil:** São Paulo

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