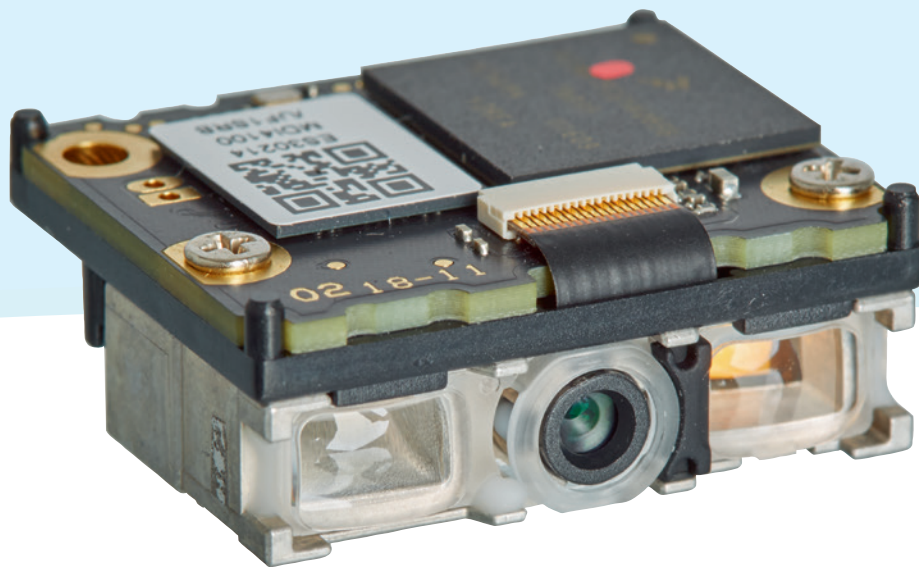


MDI-4000/4100

2D CMOS Imager

HIGHLIGHTS

- Ultra thin 2D CMOS Imager
- Integrated and separated decoder
- Extremely high speed reading and decoding
- Fast image processing speed
- Data editing program: up to 16 codes
- Low power consumption



MDI-4100

Scale 100%



MDI-4000



MDI-4000/4100

Basic product specifications

COMMUNICATION (VIA 12PIN FFC CONNECTOR)

Serial TTL, USB

POWER

VOLTAGE REQUIREMENT: 3.0 ~ 5.5V **CURRENT CONSUMPTION:** Typ. 300mA

2D IMAGER OPTICS

LIGHT SOURCE: Aiming green LED, warm white illumination LED **SCAN**

METHOD: CMOS area sensor, 640 x 480 pixels, black and white **SCAN RATE:**

Up to 100 fps **READING PITCH ANGLE:** -65 to 0°, 0 to +65° **READING SKEW**

ANGLE: -65 to 0°, 0 to +65° **READING TILT ANGLE:** 360° **MIN. RESOLUTION**

AT PCS 0.9: 0.1 mm / 4 mil **MIN. PCS VALUE:** 0.9 **FIELD OF VIEW:** Horizontal

38°, Vertical 28.9° **DEPTH OF FIELD AT QR CODE:** 64 - 106 mm / 2.52 - 4.17

in (0.169mm / 6.7 mil), 30 - 234 mm / 1.18 - 9.21 in (0.381mm / 15 mil)

DEPTH OF FIELD AT CODE 39: 52 - 126 mm / 2.05 - 4.96 in (0.127 mm / 5

mil), 46 - 246 mm / 1.81 - 9.68 in (0.254 mm / 10 mil), 60 - 466 mm / 2.36 -

18.35 in (0.508 mm / 20 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), Passport MRZ (OCR-B), Maxi Code

(mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code

DURABILITY

TEMPERATURE IN OPERATION: -30 to 60 °C / -22 to 140 °F **TEMPERATURE**

IN STORAGE: -40 to 70 °C / -40 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

/ 5,2 ft drop onto concrete surface **MTBF:** 50,000 hours

PHYSICAL MDI-4000

DIMENSIONS (W X H X D): Camera (CMOS) 24.6 x 6.0 x 13.5 mm/ 0.97 x 0.24

x 0.53 in, PCB (decoder board) 27.0 x 3.0 x 22.0 mm/ 1.06 x 0.12 x 0.87 in

WEIGHT BODY: Ca. 5.5 g / 0.19 oz

PHYSICAL MDI-4100

DIMENSIONS (W X H X D): 25.3 x 10.0 x 21.0 mm/ 1.0 x 0.39 x 0.83 in

WEIGHT BODY: Ca. 5.5 g / 0.19 oz

REGULATORY & SAFETY

RoHS, IEC62471

