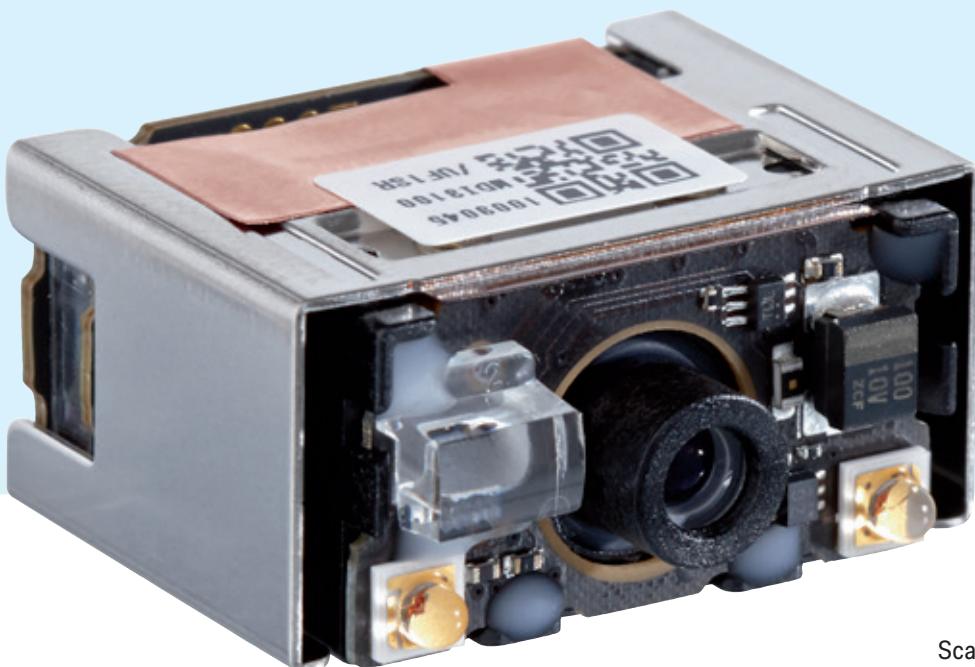


MDI-3100

2D CMOS Imager

HIGHLIGHTS

- Extremely high speed performance
- Data editing program
- Integrated decoder
- Low power consumption
- Easy installation



Scale 100%



MDI-3100

Basic product specifications

COMMUNICATION

SERIAL CMOS: 12 pin FFC connector

POWER

VOLTAGE REQUIREMENT: 3.0 ~ 5.5V **CURRENT CONSUMPTION:** Max.

390mA for 3.0V and max. 260mA for 5.5V

2D IMAGER OPTICS

LIGHT SOURCE: Aiming green LED + red illumination LED **SCAN METHOD:**

CMOS area sensor, 752 x 480 pixels **SCAN RATE:** Up to 60 fps **READING**

PITCH ANGLE: -50 to 0°, 0 to +50° **READING SKEW ANGLE:** -50 to 0°, 0 to

+50° **READING TILT ANGLE:** 360° **CURVATURE:** R>16 mm (EAN10), R>20

mm (EAN12) **MIN. RESOLUTION AT PCS 0.9:** 0.127 mm / 5 mil **MIN. PCS**

VALUE: 0.9 **FIELD OF VIEW:** Horizontal 48°, Vertical 34° **DEPTH OF FIELD**

AT CODE 39: 60 - 90 mm / 2.36 - 3.54 in (0.127 mm / 5 mil), 55 - 120 / 2.17

- 4.72 in (0.254 mm / 10 mil) **DEPTH OF FIELD AT QR CODE:** 65 - 85 mm /

2.56 - 3.35 in (0.169 mm / 6.7 mil), 40 - 120 mm / 1.57 - 4.72 in (0.381 mm /

15 mil) **DEPTH OF FIELD AT DATA MATRIX:** 60 - 95 mm / 2.36 - 3.74 in (0.212

mm / 8.4 mil)

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, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET

2D CODE: Aztec Code, Aztec Runes, Chinese Sensible code, Codablock F,

Composite codes, Data Matrix (ECC200/ EC0-140), 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% (noncondensing) **HUMIDITY IN STORAGE:** 5 - 90% (non-condensing)

AMBIENT LIGHT IMMUNITY: Fluorescent 10,000 lx max, Sunlight 100,000 lx

max, Incandescent 10,000 lx max **DROP TEST:** packed in dummy case 1.8 m /

6 ft drop onto concrete surface **MTBF:** 50,000 hours

PHYSICAL

DIMENSIONS (W x H x D): 25.3 x 12.4 x 21.2 mm/ 0.99 x 0.49 x 0.83 in.

WEIGHT: Ca. 8 g / 0.28 oz

REGULATORY & SAFETY

RoHS, IEC62471

