

# MDI3100 2D CMOS Imager

## > HIGHLIGHTS

Extremely high speed performance

Data editing program

Integrated decoder

Low power consumption

Easy installation



SCALE 1:1



# MDI3100

## > 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° **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 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:** -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, 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

### 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

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