

OEM

# MDI-1000

2D CMOS Imager

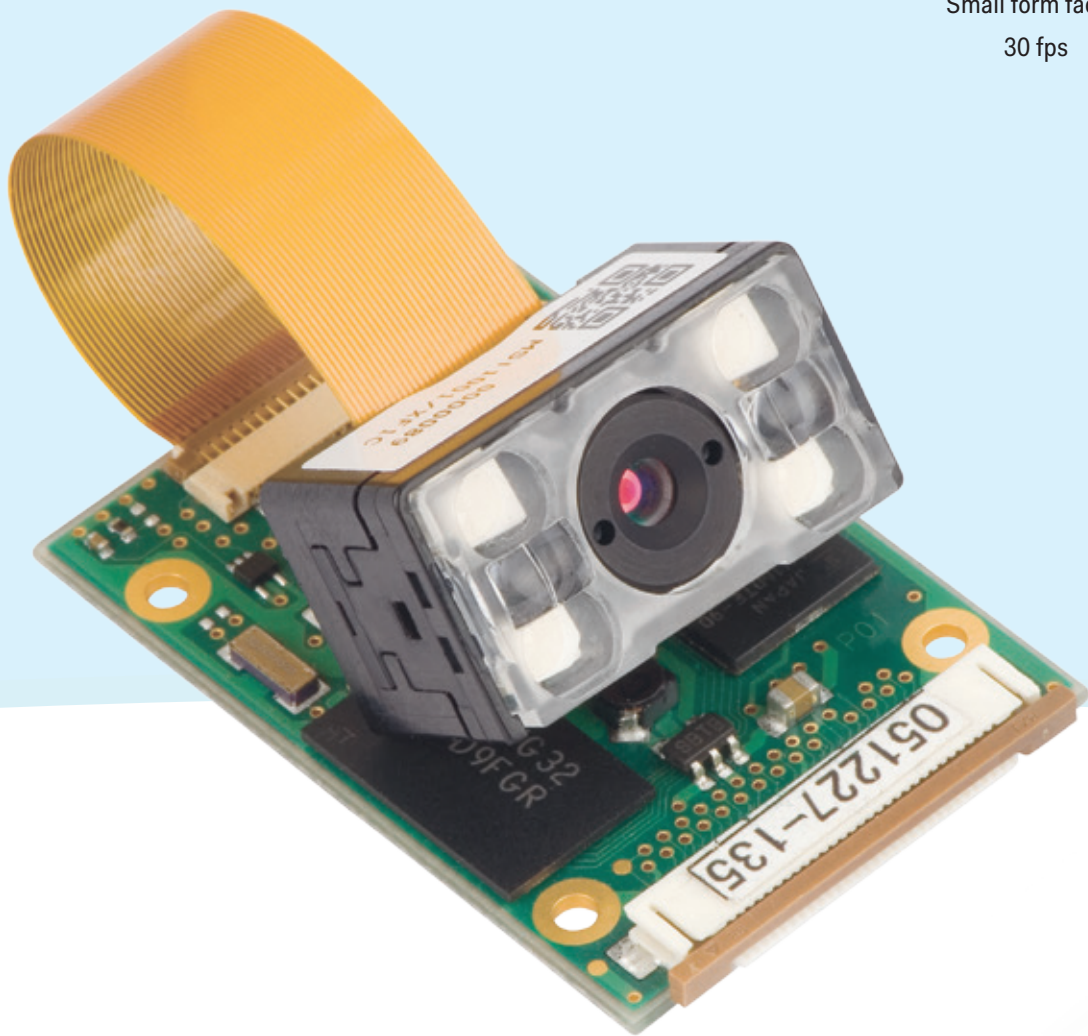
## HIGHLIGHTS

Low power consumption

Integrated decoder

Small form factor

30 fps



 **OPTICON**

# MDI-1000

## Basic product specifications

### COMMUNICATION

**SERIAL CMOS:** 30 pin FFC connector

### POWER

**VOLTAGE REQUIREMENT:** 3.3V  $\pm$  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:** -60 to 0°, 0 to +60° **READING TILT ANGLE:** 360°

**CURVATURE:** R>15 mm (EAN8), R>20 mm (EAN13) **MIN. RESOLUTION AT**

**PCS 0.9:** 0.127 mm at Code 39 & PDF417, 0.169 mm at Data Matrix & QR

Code **MIN. PCS VALUE:** 0.45 **FIELD OF VIEW:** Horizontal 47°, Vertical 37.5°

**DEPTH OF FIELD AT CODE 39:** 95 - 135 mm / 3.74 - 5.31 in (0.127 mm / 5

mil), 65 - 175 mm / 2.56 - 6.89 in (0.25 / 10 mil), 50 - 245 mm / 1.97 - 9.65 in

(0.5 mm / 20 mil) **DEPTH OF FIELD AT QR CODE:** 70 - 170 mm / 2.76 - 6.69 in

(0.339 / 13 mil), 90 - 135 mm / 3.54 - 5.31 in (0.212 / 8 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, 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:** RoHS, IEC60825-1+A2 Class 1, JIS-C-6802 Class 1

### SOLD SEPARATELY

MEK1000 SDK (Development board, Getting started disc, RS232 cable),

Connection cable, Power supply 100-240V/0.5A, 50/60 Hz, 5V/2A

