

OEM

MDI-2350

2D Imager Barcode Scan Engine



Highlights

- CMOS image sensor with fast decode speed of 30 frames per second (FPS)
- Small camera size and flexible cable length between the camera and decode board make it easy to fit into OEM devices
- Serial CMOS via 17 pin FFC connector
- Class 1 laser for easy painting of target images
- Auto-contrast control enables high-resolution image capture
- Adjustable illumination makes it easy to read barcodes off various surface types including LCD screens
- Low power, operates under 3.3V or 5V to fit your design needs
- Engineering kit available—enables faster time to market
- Compact form factor—CMOS camera dimensions are 1.1" x 0.56" x 0.53" while PCB decoder board dimensions are 0.73" x 0.19" x 1.19"
- Two year warranty

MDI-2350

Product Specifications

COMMUNICATION

SERIAL CMOS: 17 pin FFC connector

POWER

VOLTAGE REQUIREMENT: 3.3V \pm 5%

CURRENT CONSUMPTION: Maximum 300mA

2D IMAGER OPTICS

LIGHT SOURCE: Aiming laser diode, illumination LED

SCAN METHOD: CMOS area sensor, 1280 x 1024 pixels, gray scale

SCAN RATE: Up to 30 fps

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

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

READING TILT ANGLE: 360°

MINIMUM RESOLUTION AT PCS 0.9: 5 mil (0.127 mm)

MINIMUM PCS VALUE: 0.45

FIELD OF VIEW: Horizontal 48°, Vertical 34°

DEPTH OF FIELD:

At QR Code:

15 mil (0.381mm) 2.17 - 8.07 in 55 - 205 mm

At Code 39:

10 mil (0.254 mm) 3.94 - 5.91 in (100 - 150 mm)

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 2 of 5, ISBN-ISSN-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

BARCODE (2D): 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

BARCODE (POSTAL CODES): Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET

DURABILITY

TEMPERATURE:

Operation: -4 to 131 °F (-20 to 55 °C)

Storage: -40 to 158 °F (-40 to 70 °C)

HUMIDITY:

Operation: 5 - 85% (noncondensing)

Storage: 5 - 85% (noncondensing)

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 5ft (1.5 m) drop onto concrete surface

MBTF: 10,000 hours

PHYSICAL

DIMENSIONS (WXHXD):

Camera (CMOS): 1.07 x 0.53 x 0.56 in (27.3 x 13.4 x 14.2 mm)

PCB (decoder board): 0.73 x 0.19 x 1.19 in (18.5 x 4.8 x 30.3 mm)

WEIGHT BODY:

Camera (CMOS): Ca. 0.25 oz 7 g

PCB (decoder board): Ca. 0.13 oz (3.7 g)

REGULATORY AND SAFETY

RoHS, IEC 60825-1 Class 1, CDRH Class I, IEC62471

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