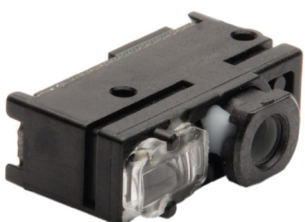


MDC-200

CCD scanner

The MDC-100 is a strong performing CCD scanner in Opticons range of scan engines. It scans with an incredible speed of 300 scans per second and easily off numerous surfaces like a cell phone.



scale
100%

Highlights

- Smaller form factor than the MDC-100: 7.5 mm (H) vs. 11.5 mm
- CCD linear sensor (1,500 pixels) barcode scan engine with integrated decoder
- Superior scanning performance at 300 scans/second
- Able to quickly scan 1D barcodes off cell phone displays
- All solid-state design with no moving parts equates to better MTBF
- No CDRH requirements and no warning labels needed
- Small form factor at just 22.8 x 7.5 x 15 mm (WxHxD) and weight of only 2.6 grams
- Perfect for integration into small, space-constrained mobile, medical or retail barcode scanning devices
- Low power consumption operating at 3.3V to fit your design needs
- Supports USB (HID and COM) and RS232 interfaces
- Engineering kit available - enables faster time to market
- Two year warranty

MDC-200

Product Specifications

Communication

Serial CMOS: 12 pin FFC connector (both RS232C and USB)

Power

Voltage requirement: 3.3V

Current consumption: Max. 120 mA

Barcode scanner optics

Light source: 1 red LED

Scan method: CCD linear sensor

Scan rate: 300 scans / second

Reading pitch angle: $\pm 50^\circ$

Reading skew angle: $\pm 65^\circ$

Reading tilt angle: $\pm 25^\circ$

Curvature: R>15 mm (EAN8)

Min. resolution at pcs 0.9: 0.3 mm (EAN-13)

Depth of field at code 39:

70 - 180 mm (0.127 mm) / 2.76 - 7.09 in (5 mil)

55 - 300 mm (0.25 mm) / 2.17 - 11.81 in (10 mil)

60 - 460 mm (0.5 mm) / 2.36 - 18.11 in (20 mil)

65 - 800 mm (1.0 mm) / 2.56 - 31.50 in (39 mil)

Depth of field at EAN-13:

45 - 320 mm (0.33 mm) / 1.77 - 12.60 in (13 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)(Exl. stacked), 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

Durability

Temperature in operation: -20 to 60 °C / -4 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 4,000 lx max, Sunlight 100,000 lx max, Incandescent 4,000 lx max

Drop test: Packed in dummy case 1.8 m / 6 ft drop onto concrete surface

Physical

Dimensions (WxHxD): 22.8 x 7.5 x 15 mm / 0.90 x 0.30 x 0.59 in

Weight: Ca. 2.6 g / 0.09 oz

Regulatory & Safety

RoHS, IEC62471

Items

Sold seperately: MEK-3100 development board (With power supply, RS232 cable, USB cable, PCBs)