

OEM

# MDC-100

## CCD Barcode Scan Engine



### Highlights

- 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 0.90" x 0.45" x 0.59" (WxHxD) and weight of only 0.12 ounces
- 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-100

## Product Specifications

### COMMUNICATION

**SERIAL CMOS:** 12 pin FFC connector

### POWER

**VOLTAGE REQUIREMENT:** 3.3V

**CURRENT CONSUMPTION:** Maximum 120mA

### BARCODE SCANNER OPTICS

**LIGHT SOURCE:** 1 red LED

**SCAN METHOD:** CCD linear sensor

**SCAN RATE:** 300 scans/sec

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

**READING SKEW ANGLE:** -65 to 0°, 0 to +65°

**READING TILT ANGLE:** -25 to 0°, 0 to +25°

**CURVATURE:** R>15 mm (EAN8)

**MINIMUM RESOLUTION AT PCS 0.9:** 0.3 mm (EAN-13)

**DEPTH OF FIELD:**

At Code 39

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

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

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

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

At EAN-13

13 mil (0.33 mm) 1.77 - 12.60 in (45 - 320 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) (exl.stacked), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISSM-ISSN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

**POSTAL CODE:** Chinese Post, Korean Postal Authority Code

### DURABILITY

**TEMPERATURE:**

Operation: -20 to 60 °C / -4 to 140 °F

Storage: -40 to 70 °C / -40 to 158 °F

**HUMIDITY:**

Operation: 5 - 90% (noncondensing)

Storage: 5 - 90% (non-condensing)

**AMBIENT LIGHT IMMUNITY:**

Fluorescent: 4000 lx max

Sunlight: 100,000 lx max

Incandescent: 4000 lx

**DROP TEST:** packed in dummy case 6 ft (1.8 m) drop onto concrete surface

### PHYSICAL

**DIMENSIONS (WXHxD):** 0.90 x 0.45 x 0.59 in (22.8 x 11.5 x 15 mm)

**WEIGHT:** Ca. 0.12 oz (3.5 g)

**REGULATORY AND SAFETY:** RoHS, IEC62471

© Copyright Opticon. All rights reserved. This information is subject to change without prior notice. For availability, contact your local representative. MDC-100\_110315

