

# MDC-100 CCD Scan Engine

> HIGHLIGHTS

Small form factor

Integrated decoder

300 scans/sec

Low power consumption



SCALE 1:1



# MDC-100

## > BASIC PRODUCT SPECIFICATIONS

### COMMUNICATION

**RS-232 & USB (CMOS):** 12 pin FFC connector

### POWER

**VOLTAGE REQUIREMENT:** 3.9V **CURRENT CONSUMPTION:** Max. 120mA

### BARCODE SCANNER OPTICS

**LIGHT SOURCE:** 1 red LED **SCAN METHOD:** CCD linear sensor, 1500 pixels **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) **MIN. RESOLUTION AT PCS 0.9:** 0.1 mm (Code 39) **DEPTH OF FIELD:** At Code 39, 75 - 140 mm / 2.95 - 5.51 in (0.1 mm / 4 mil), 60 - 178 mm / 2.36 - 7.01 in (0.127 mm / 5 mil), 52 - 294 mm / 2.05 - 11.57 in (0.254 mm / 10 mil), 56 - 482 mm / 2.20 - 18.98 in (0.508 mm / 20 mil), 62 - 716 mm / 2.44 - 28.19 in (1.0 mm / 39 mil); at EAN 13, 43 - 325 mm / 1.69 - 12.80 in (0.33 mm / 13 mil); at Code 128, 55 - 180 mm / 2.56 - 5.12 in (0.20 mm / 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) (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 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 INTENSITY:** Fluorescent 4000 lx max, Sunlight 100,000 lx max, Incandescent 4000 lx **DROP TEST:** packed in dummy case 1.8 m / 6 ft drop onto concrete surface

### PHYSICAL

**DIMENSIONS (W X H X D):** 22.8 x 11.5 x 15 mm / 0.90 x 0.45 x 0.59 in. **WEIGHT:** Ca. 3.5 g / 0.12 oz

### REGULATORY & SAFETY

RoHS, IEC62471