

# MSL1000

Barcode laser scanner

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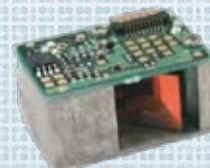
### MDL1000

- OEM
- Decoded device
- Barcode laser scanner
- 28 x 7.8 x 18 mm (w x h x d)



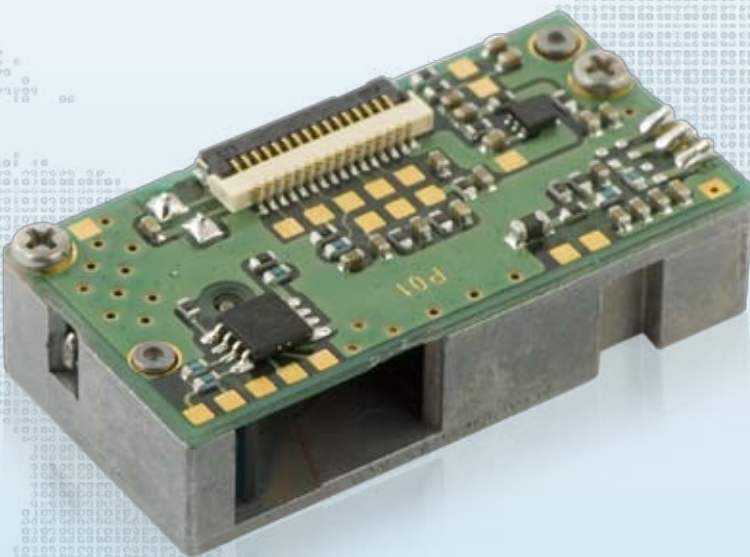
### MSL2000

- OEM
- Undecoded device
- Barcode laser scanner
- 20.4 x 11 x 14 mm (w x h x d)



### MDI1000

- OEM
- Camera + decoderboard
- 2D CMOS imager



## Communication

- Serial CMOS: 12 pin FFC connector

## Power

- Voltage requirement: 3.3V ± 10%
- Current consumption: Max. 75mA

## Barcode scanner Optics

- Light source: 650 nm visible laser diode
- Scan method: Bi-directional scanning
- Scan rate: 100 scans/sec
- Reading pitch angle: -35 to 0°, 0 to +35°
- Reading skew angle: -50 to -8°, +8 to +50°
- Reading tilt angle: -20 to 0°, 0 to +20°
- Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil
- Min. PCS value: 0.45
- Depth of field: At PCS 0.9 Code 39
  - 70 - 650 mm / 2.76 - 25.59 in (1.0 mm / 39 mil),
  - 50 - 420 mm / 1.97 - 16.54 in (0.5 mm / 20 mil),
  - 50 - 260 mm / 1.97 - 10.24 in (0.25 mm / 10 mil),
  - 50 - 150 mm / 1.97 - 5.91 in (0.15 mm / 6 mil),
  - 60 - 120 mm / 2.36 - 4.72 in (0.127 mm / 5 mil)

## Durability

- Temperature in operation: -20 to 65 °C / -4 to 149 °F
- Temperature in storage: -30 to 70 °C / -22 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, Direct sun 80,000 lx max, Incandescent 4,000 lx max
- Drop test: packed in dummy case 1.8 m / 6 ft drop onto concrete surface
- MBTF: 30,000 hours except laser diode (10,000 hours) and except mirror scan unit (10,000 hours)

## Physical

- Dimensions (w x h x d): 28 x 7.8 x 14 mm / 1.10 x 0.31 x 0.55 in
- Weight body: Ca. 3.9 g / 0.14 oz

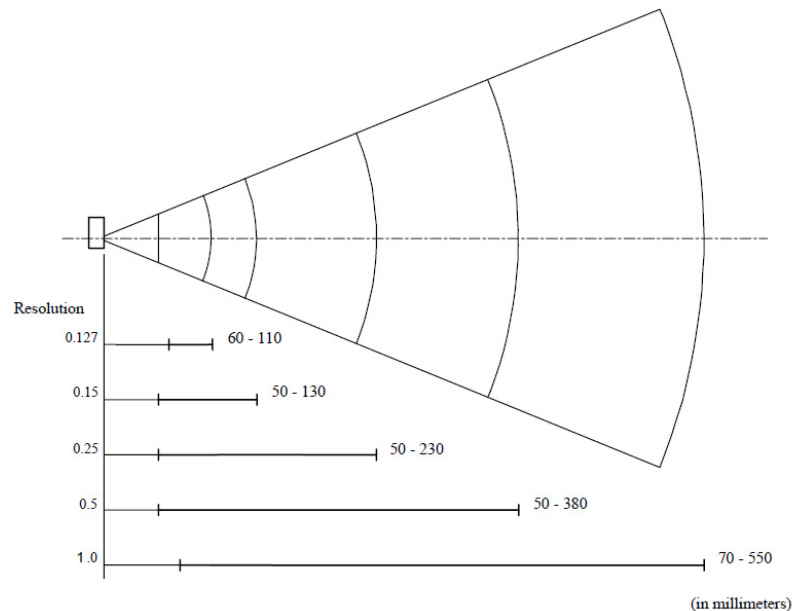
## Regulatory & Safety

- Product compliance: RoHS, JIS-C-6802 Class 2

## Sold separately

- MEK1000 SDK (Development board, Getting started disc, RS232 cable)
- Connection cable
- Power supply 100-240V/0.5A, 50/60 Hz, 5V/2A

## Depth of Field



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