

## OPR 2001 Laser Barcode Scanner



The sleek OPR 2001 barcode reader features a compact and modern design yet is lightweight and delivers reliable performance using Opticon's proven scanning technology.

### Electrical specifications

- Voltage requirement: 5 V  $\pm$  10 % (Keyboard Wedge and USB), 6 V (min. 4.5, max. 6.5 V) (RS232)

### Optical specifications

- 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)
- Reading width: depending on reading distance and barcode label resolution
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil
- Min. PCS value: 0.45
- Depth of field: 40 - 500 mm / 1.57 - 19.69 in (res. 1.0 mm / 39 mil), 20 - 350 mm / 0.79 - 13.78 in (res. 0.5 mm / 20 mil), 20 - 200 mm / 0.79 - 7.87 in (res. 0.25 mm / 10 mil), 20 - 100 mm / 0.79 - 3.94 in (res. 0.15 mm / 6 mil), 30 - 70 mm / 1.18 - 2.76 in (res. 0.127 mm / 5 mil), at PCS 0.9 Code 39

### Identification

- Supported barcode symbologies (1D): JAN/UPC/EAN (WPC) incl. add on, Chinese Post, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Korean Postal Authority code, Matrix 2of5, MSI/Plessey-UK/Plessey, RSS, S-Code, Telepen, Tri-Optic, Composite codes
- Supported 2D code symbologies: MicroPDF417, PDF417

### Functionality

- Trigger mode: manual, auto-trigger
- Interface: Keyboard Wedge, RS232C, USB(HID/VCP)

### Environmental specifications

- Temperature in operation: -5 to 50 °C / -23 to 122 °F
- Temperature in storage: -20 to 60 °C / -4 to 140 °F
- Humidity in operation: 20 - 85 % (non-condensing)
- Humidity in storage: 10 - 90 % (non-condensing)
- Ambient fluorescent light rejection: 3,000 lx max.
- Ambient direct sun light rejection: 50,000 lx max.
- Ambient incandescent light rejection: 3,000 lx max.
- Shock drop test: 1.5 m / 5 ft drop onto concrete surface
- Shock vibration test: 10 - 100 Hz with 2G for 1 hour
- Protection (dust and moisture, IEC529): IP 42

### Physical specifications

- Dimensions: 56 x 151 x 31 mm / 2.20 x 5.94 x 1.22 in
- Case material: ABS
- Weight body: Ca. 60 g / 2.1 oz
- Connector Keyboard Wedge: MiniDIN6 F/M
- Connector RS232: DB9 F with external power
- Connector USB: USB-A

### Stand

- Dimensions: ST-90: 100 x 175 x 127 mm / 3.94 x 6.89 x 5.00 in (excl. scanner)
- Weight: Ca. 115 g / 4.1 oz
- Purpose: Auto-trigger stand

### Regulatory

- Laser safety class: JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II
- Product compliance: CE, FCC, VCCI, RoHS