

OPR 3001
Rugged Handheld Laser Scanner



The rugged OPR-3001 is an ergonomic yet light-weight handheld scanner that scans with confidence, delivering reliability and durability in harsh, dirty or extreme conditions.

Electrical specifications

- Voltage requirement: 5 V \pm 10 % (Keyboard Wedge and USB), 6 V \pm 10 % (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: 30 - 590 mm / 1.18 - 23.23 in (res. 1.0 mm / 39 mil), 10 - 360 mm / 0.39 -

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)

Environmental specifications

- Temperature in operation: -10 to 60 °C / 14 to 140 °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 fluorescent light rejection: 4,000 lx max.
- Ambient direct sun light rejection: 80,000 lx max.
- Ambient incandescent light rejection: 4,000 lx max.
- Shock drop test: 2 m / 6.5 ft drop onto concrete surface
- Shock vibration test: 10 - 100 Hz with 2G for 30 min
- Protection (dust and moisture, IEC529): IP 54

Physical specifications

- Dimensions: 68 x 50 x 155 mm / 2.68 x 5.91 x 6.10 in
- Case material: ABS
- Weight body: Ca. 230 g / 8.1 oz
- Connector Keyboard Wedge: MiniDIN6 F/M
- Connector RS232: DB9 with external power
- Connector USB: USB-A

Regulatory

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