

OPR-2001

Laser Barcode Scanner



USB (HID)

USB (VCP/COM)

RS232

Keyboard Wedge

+ Features and Benefits

- Slim and ultra-lightweight
- Delivers the perfect combination of performance, durability and style
- Feels good in the hand and looks great on the counter
- Designed for retail applications
- Fast 100 scans/second laser scanner
- Choice of interfaces - USB, keyboard wedge and RS232
- Withstands five foot drop to concrete
- Features IP42 rating – sealed against dust and moisture
- Trigger modes: manual, auto-trigger and stand detection
- Ships with a stand
- Two year warranty protects your investment

Operating indicators

- **Visual:** 1 LED (red/green/orange)
- **Audible:** Buzzer

Operating Keys

- **Entry Options:** 1 scan key

Communication

- **RS232:** DB9 PTF connector with external power supply
- **Keyboard Wedge:** MiniDIN (6-pin) F/M connector
- **USB:** Version 1.1, HID/VCP, USB-A connector

Power

- **Voltage Requirement:** 5V \pm 10% (Keyboard Wedge and USB), 6V (min. 4.5, max. 6.5V) (RS232)
- **Current Consumption:** Maximum 150mA

Barcode Scanner Optics

- **Light Source:** 650 nm visible laser diode
- **Scan Method:** Bi-directional scanning
- **Scan Rate:** 100 scans/sec
- **Trigger Mode:** Manual, auto-trigger, stand detection
- **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)
- **Minimum Resolution at PCS 0.9:** 5 mil (0.127 mm)
- **Minimum PCS Value:** 0.45
- **Depth of Field at PCS 0.9, Code 39:**
 - 39 mil (1.0 mm) 1.57 - 19.69 in (40 - 500 mm)
 - 20 mil (0.5 mm) 0.79 - 13.78 in (20 - 350 mm)
 - 10 mil (0.25 mm) 0.79 - 7.87 in (20 - 200 mm)
 - 6 mil (0.15 mm) 0.79 - 3.94 in (20 - 100 mm)
 - 5 mil (0.127 mm) 1.18 - 2.76 in (30 - 70 mm)

Supported Symbolologies

- **Barcode (1D):** JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- **Barcode (2D):** Composite codes, MicroPDF417, PDF417
- **Barcode (Postal Codes):** Chinese Post, Korean Postal Authority code

Durability

- **Temperature:**
 - Operation: -23 to 122 °F (-5 to 50 °C)
 - Storage: -4 to 140 °F (-20 to 60 °C)
- **Humidity:**
 - Operation: 20 - 85% (non-condensing)
 - Storage: 10 - 90% (non-condensing)
- **Ambient Light Immunity:**
 - Fluorescent: 3,000 lx max
 - Direct Sun: 50,000 lx max
 - Incandescent: 3,000 lx max
- **Drop Test:** 5 ft (1.5 m) drop onto concrete surface
- **Vibration Test:** 10 - 100 Hz with 2G for 1 hour
- **Protection Rate:** IP 42

Physical

- **Dimensions (WxHxD):** 2.20 x 5.94 x 1.22 in (56 x 151 x 31 mm)
- **Dimensions Stand (WxHxD):** 3.94 x 6.89 x 5.00 in (100 x 175 x 127 mm) (excl. scanner)
- **Weight Body:** Ca. 2.1 oz (60 g) (excl. cable)
- **Weight Stand:** Ca. 4.1 oz (115 g)
- **Case:** ABS, black, chrome stand

Regulatory and Safety

- **Product Compliance:** CE, FCC, VCCI, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

Enclosed Items

- Stand

Sold Separately

- **Power Supply:** 100-240V/0.5A, 50/60 Hz, 6V/2A (for RS232)

Models

- **Interface Versions:** RS232, Keyboard Wedge, USB (USB models can be ordered as either USB-HID or USB-VCP configured by default, but all USB devices are capable of both interface options)