

# OPV1001

Omnidirectional laser scanner

RS232

Keyboard Wedge

 USB (HID/VCP)

### + Related products

#### OPM2000

- Stationary device
- Omnidirectional laser scanner
- RS232, Keyboard Wedge, USB (HID)
- ABS



#### NLV1001

- Stationary device
- Barcode laser scanner
- RS232, Keyboard Wedge, USB (HID/VCP)
- IP 43, ABS



#### NLV2101

- Stationary device
- 2D CMOS imager
- RS232, USB (HID/VCP)
- IP 67, Metal



## Operating indicators

- Visual: 1 LED (red/green/orange)
- Non-visual: Buzzer

## Communication

- RS232: DB9 PTF connector with external power supply
- Keyboard Wedge: MiniDIN6 F connector with external power supply
- USB: Ver. 1.1, HID/VCP, USB-A connector

## Power

- Voltage requirement: 5V ± 5%
- Current consumption: Max. 500mA

## Barcode scanner Optics

- Light source: 650 nm visible laser diode
- Scan rate: 1000 scans/sec
- Trigger mode: Manual, multiple read, serial software trigger
- Reading pitch angle: -35 to 0°, 0 to +35°
- Reading skew angle: -50 to -8°, +8 to +50°
- Reading tilt angle: 360°
- Curvature: R>20 mm (EAN8), R>25 mm (EAN13)
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil
- Min. PCS value: 0.45
- Field of view: Horizontal 22°, Vertical 12°
- Depth of field: At PCS 0.9, Code 39  
10 - 360 mm / 0.39 - 14.17 in (0.66 mm / 26 mil),  
10 - 200 mm / 0.39 - 7.87 in (0.33 mm / 13 mil),  
10 - 90 mm / 0.39 - 3.54 in (0.2 mm / 8 mil),  
20 - 60 mm / 0.79 - 2.36 in (0.127 mm / 5 mil)

## Supported Symbolologies

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

## Durability

- Temperature in operation: 0 to 40 °C / -32 to 104 °F
- Temperature in storage: -30 to 60 °C / -22 to 140 °F
- Humidity in operation: 20 - 90% (non-condensing)
- Humidity in storage: 20 - 90% (non-condensing)
- Ambient light immunity: Fluorescent 3,000 lx max, Direct sun 20,000 lx max, Incandescent 3,000 lx max
- Drop test: 1 m / 3 ft drop onto concrete surface
- Vibration test: 10 - 100 Hz with 2 G for 1 hour

## Physical

- Dimensions (w x h x d):  
71 x 100 x 79.4 mm / 2.80 x 3.94 x 3.13 in
- Dimensions stand (w x h x d):  
112 x 92 x 100 mm / 4.41 x 3.62 x 3.94 in (excl. scanner)
- Weight body: Ca. 200 g / 7.1 oz (excl. cable)
- Weight stand: Ca. 340 g / 12.0 oz
- Case: ABS, Black

## Regulatory & Safety

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

## Enclosed items

- Power supply 100-240V/0.5A, 50/60 Hz, 5V/2A (for RS232 and Keyboard Wedge)

## Sold separately

- Power cord

## Models

- Interface versions: RS232, Keyboard Wedge, USB

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- **The Netherlands:** Hoofddorp  
- **France:** Issy Les Moulineaux  
- **Germany:** Dietzenbach  
- **Italy:** Castel Maggiore (BO)  
- **Spain:** Valencia  
- **Sweden:** Järfälla  
- **United Kingdom:** Luton, Bedfordshire  
- **U.S.A.:** Renton, WA  
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- **Taiwan:** Taipei  
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