E OPTICON

Cabled Scanners

OPR-2001Z

Laser scanner

The OPR-2001Z is a slim and ultra-lightweight silver and black design. It delivers the perfect combination of performance, durability and style. It feels good in the hand; it looks great on the counter and improves productivity.









Highlights

- Slim and ultra-lightweight delivering the perfect combination of performance, durability and style
- Feels good in the hand and looks great on the counter
- Ideal scanning solution for retail, healthcare, education and logistics applications
- 100 scans/second high speed laser scanner
- Durable survives 1.5 meter drop to concrete
- IP42 rating against dust and moisture
- Trigger modes: manual, auto-trigger and stand detection
- Compact size and weight: 56 x 151 x 31 mm (W x H x D) and only 60 grams
- Communication interface: RS232 or USB
- Stand included
- Backed by a two year warranty

OPR-2001Z Product Specifications

Operating indicators

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

Operating keys

Entry options: 1 scan key

Communication

RS232C: DB9 connector with external power supply USB: ver. 1.1, HID/VCP, USB-A connector

Power

Voltage requirement: 5V ± 10% (USB), 6V (min 5.5, max 6.5) (RS232) Current consumption: Max. 210 mA

Barcode scanner optics

Light source: 650 nm visible laser diode Scan method: Bi-directional scanning Scan rate: Up to 100 scans / second Trigger mode: Manual, auto-trigger, stand detection Reading pitch angle: ± 35° Reading skew angle: -50° to -8°, 8° to +50° Reading tilt angle: ± 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 code 39: 40 - 400 mm (1.0 mm) / 1.57 - 15.75 in (39 mil) 20 - 300 mm (0.5 mm) / 0.79 - 11.81 in (20 mil) 20 - 200 mm (0.25 mm) / 0.79 - 7.87 in (10 mil) 20 - 100 mm (0.15 mm) / 0.79 - 3.94 in (6 mil) 30 - 70 mm (0.127 mm) / 1.18 - 2.76 in (5 mil)

Supported symbologies

Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/ NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2 of 5, Interleaved 2 of 5, ISBN-ISSN-ISMN, Matrix 2 of 5, MSI/Plessey, UK/Plessey, S-Code, Telepen, Tri-Optic Postal code: Chinese Post, Korean Postal Authority code

2D code: Composite codes, PDF417, MicroPDF417

Durability

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: 5% to 95% (non-condensing) Humidity in storage: 5% to 95% (non-condensing) Ambient light immunity: Fluorescent 3,000 lx, direct sun 50,000 lx, incandescent 3,000 lx max Drop test: 1.5 m / 5 ft drop onto concrete surface Vibration test: 10 - 100Hz with 2G for 1 hour Protection rate: IP42

Physical

Dimensions Scanner (W x H x D): $56 \times 151 \times 31 \text{ mm} / 2.20 \times 5.94 \times 1.22 \text{ in}$ Weight body: Ca. 60 g / 2.1 oz (excl. cable) Dimensions Stand (W x H x D): $99 \times 174 \times 127 \text{ mm} / 3.90 \times 6.85 \times 5.00 \text{ in}$ (excl. scanner) Weight Stand: Ca. 90 g / 3.2 oz Case: ABS, chrome stand

Regulatory & safety

Product compliance: CE, FCC, VCCI, RoHS, JIS-C-6802 Class 2, IEC60825-1 Class 2, FDA CDRH Class II, EN55022, EN55024

Items

Enclosed: Stand (optionally sold separately) Sold separately: power supply 100-240V/0.5A, 50/60 Hz, 6V/2A (for RS232)

Models

Interface versions: RS232, USB



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