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: ± 35º
Reading skew angle: -50º to -8º, 8º to +50º
Reading tilt angle: ± 20º
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 ºC / 23 to 122 ºF
Temperature in storage: -20 to 60 ºC / -4 to 140 ºF
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 x 151 x 31 mm / 2.20 x 5.94 x 1.22 in
Weight body: Ca. 60 g / 2.1 oz (excl. cable)
Dimensions Stand (W x H x D): 99 x 174 x 127 mm / 3.90 x 6.85 x 5.00 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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