

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

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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 \pm 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: \pm 35°

Reading skew angle: -50° to -8°, 8° to +50°

Reading tilt angle: \pm 20°

Curvature: $R \geq 15$ mm (EAN8), $R \geq 20$ 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

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 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