

# OPR-3201Z

## Laser scanner

The OPR-3201Z quickly and efficiently scans 1D barcodes for retail, point-of-sale (POS), inventory or logistics applications. The pistol grip and auto-trigger function allows instant, hands-free operation.



## Highlights

- Affordable handheld barcode scanner providing fast, reliable scanning
- Lightweight, ergonomic form factor for continuous, all day usage
- 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
- Communication interface: RS232 or USB
- 56 x 149 x 109 mm (WxHxD) and 90 grams
- Stand included
- Backed by a two year warranty

# OPR-3201Z

## 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. 200 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 x 149 x 109 mm / 2.20 x 5.87 x 4.29 in

Weight body: Ca. 90 g / 3.2 oz (excl. cable)

Dimensions Stand (W x H x D): 146 x 106 x 295 mm / 5.75 x 4.17 x 11.61 in (excl. scanner)

Weight Stand: Ca. 390 g / 3.76 oz

Case: ABS. Black or White (Antimicrobial optional)

### 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

Sold separately: Power supply 6V/2A (for RS232)

### Models

Interface versions: RS232, USB

Color versions: Black, White