OPN-2001

Laser scanner

The OPN-2001 makes barcode data collection simple. Scan a barcode and it is automatically stored. This small USB scanner is perfect for data-capture applications in healthcare, inventory control and retail.

Highlights

- Simple, one-touch barcode scanning
- Most affordable USB batch scanner
- Small form factor: 32 x 62 x 16 mm and weighs only 28 grams
- Easily fits into a pocket or on a key chain
- High speed 100 scans/second laser barcode scanner
- Stores over 15,000 barcodes plus timestamps
- USB rechargeable, high capacity Lithium-Ion battery
- Audible and visible feedback after a successful scan
- Leverage the free Software Development Kit (SDK) to customize scanning behavior
- Scanner comes with USB data/ charging cable and neck lanyard
- Backed by a two year warranty

OPN-2001
Product Specifications

Operation
CPU: 32-bit
O/S: Proprietary
RTC: Supports year, month, day, hour, minute, second (leap year supported)

Memory
Flashrom: 512 kB (Data storage >15.000 barcodes+ timestamp)
Ram: 64 kB

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

Operating keys
Entry options: 2 keys total, 1 clear key, 1 scan key

Communication
USB: Mini USB, ver. 1.1, USB-VCP, (USB-HID on request)

Power
Rechargeable battery: Lithium-Ion 3.7V 150 mAh
Operating time(active): 3.000 scans (1 scan / 5 sec)
Operating time(idle): > 1 year
Charge method: Enclosed USB cable
Battery charging time: Ca. 2,5 hours

Barcode scanner optics
Light source: 650 nm visible laser diode
Scan method: Vibrating mirror
Scan rate: Up to 100 scans / second
Trigger mode: Manual
Reading pitch angle: ± 30⁰
Reading skew angle: -50⁰ to -8⁰, 8⁰ to +50⁰
Reading tilt angle: ± 20⁰
Curvature: R>15 mm (EAN8), R>20 (EAN13)
Min. resolution at PCS 0.9: 0.127 mm / 5 mil
Min. PCS value: 0.45

Depth of field at UPC:
60 - 570 mm (1.0 mm) / 2.36 - 22.44 in (39 mil)
40 - 360 mm (0.5 mm) / 1.57 - 14.17 in (20 mil)
40 - 220 mm (0.25 mm) / 1.57 - 8.66 in (10 mil)
40 - 120 mm (0.15 mm) / 1.57 - 4.72 in (6 mil)
50 - 100 mm (0.127 mm) / 1.97 - 3.94 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: 0 to 40 ⁰C / 32 to 104 ⁰F
Temperature in storage: -20 to 60 ⁰C / -4 to 140 ⁰F
Humidity in operation: 20% to 85% (non-condensing)
Humidity in storage: 20% to 90% (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 30 min
Protection rate: IP42

Physical
Dimensions (W x H x D): 32 x 62 x 16 mm / 1.26 x 2.44 x 0.63 in
Weight body: Ca. 28 g / 1 oz (incl. battery)
Case: ABS, Black

Regulatory & safety
Product compliance: CE, FCC, VCCI, RoHS, JIS-C-6802 Class 2, IEC60825-1 Class 2, FDA CDRH Class II

Items
Enclosed: Mini USB cable, Neck strap

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