

# OPN-2006

## Laser scanner

The OPN-2006 enables real-time barcode scanning into any Bluetooth device. It is extremely small and is lightweight. It comes at an affordable price point that enables any business to integrate barcode scanning into their mobile applications.



## Highlights

- Price point makes real-time barcode scanning with an Android, Apple or Windows Mobile host device affordable
- Simple Bluetooth pairing and one-touch barcode scanning
- Supports HID and SPP Bluetooth profiles for added flexibility
- Bluetooth Low Energy
- Ready-to-go out of the box, just pair it with your device
- High speed 100 scans/second laser barcode scanner
- Memory: 512kB FlashROM, 96KB RAM and 1MB External FlashROM
- Leverage the free Software Development Kit (SDK) to customize scanning behavior
- Small form factor: 32 x 62 x 16 mm and weighs only 29 grams
- Easily fits into pocket or on a key chain
- Audible and visible feedback after a successful scan
- USB rechargeable, high capacity Lithium-Ion battery
- Scanner comes with USB data/charging cable and neck lanyard
- Two year warranty

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## Product Specifications

### Operation

CPU: 32-bit

O/S: Proprietary

Software: 4 applications available (more applications are programmable in C-language. Free software development kit with free RX compiler)

RTC: Supports year, month, day, hour, minute, second (leap year supported)

### Memory

Flashrom: 512 kB

RAM: 96 kB

External Flashrom: 1 MB

### Operating indicators

Visual: 1 LED (red/green/orange/blue)

Non-visual: buzzer

### Operating keys

Entry options: 2 keys total, 1 function key, 1 scan key

### Communication

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

Bluetooth: Ver. 4.2, SPP, HID, 1 to 1 connection, master & slave mode, authentication and encryption, BLE

### Power

Rechargeable battery: lithium-Ion Polymer 3.7V 240 mAh

Operating time (batch): 4500 scans (1 scan / 5 sec)

Operating time (Batch, idle): 2 months

Operating time (Bluetooth): 3500 scans (1 scan / 5 seconds)

Operating time (Bluetooth, idle): 27 hours

Data retention time: Indefinite

Charge method: Enclosed USB cable

### Barcode scanner optics

Light source: 650 nm visible laser diode

Scan method: Vibrating mirror

Scan rate: Up to 100 scans / second

Reading pitch angle:  $\pm 35^\circ$

Reading skew angle:  $-50^\circ$  to  $-8^\circ$ ,  $+8^\circ$  to  $+50^\circ$

Reading tilt angle:  $\pm 20^\circ$

Curvature: R>15 (EAN 8), R>20 (EAN 13)

Min. resolution at pcs 0.9: 0.127 mm / 5 mil

Min. PCS value: 0.45

Depth of field UPC:

70 - 650 mm (1.00 mm) / 2.76 - 25.59 in (39 mil)

50 - 380 mm (0.5 mm) / 1.97 - 14.96 in (20 mil)

50 - 230 mm (0.25 mm) / 1.97 - 9.06 in (10 mil)

50 - 130 mm (0.15 mm) / 1.97 - 5.12 in (6 mil)

60 - 110 mm (0.127 mm) / 2.36 - 4.33 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, ISBN-ISMN-ISSN, Matrix 2 of 5, MSI/Plessey-UK/Plessey, S-Code, Telepen, Tri-Optic

Postal code: Chinese Post, Korean Postal Authority code

2D Code: GS1 Databar stacked

### Durability

Temperature in operation: 0 to 40 °C / 32 to 104 °F

Temperature in storage: -20 to 60 °C / -4 to 140 °F

Humidity in operation: 20% to 85% (non-condensing)

Humidity in storage: 20% to 85% (non-condensing)

Ambient light immunity: Incandescent 4,000 lx max, Fluorescent 4,000 lx max, direct sun 80,000 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. 29 g / 1 oz (incl. battery)

Case: ABS, Black

### Regulatory & safety

Product compliance: CE, FCC, RoHS, IEC 60825-1 Class 2, FDA CDRH Class II

### items

Enclosed: Mini USB cable, Neck strap

Sold separately: Silicon cover