

OPTICON

Companion Scanner

OPN-2005

Bluetooth® Laser
Barcode Scanner

Bluetooth (HID/SPP)

USB (HID/VCP/MSD)



+ Features and Benefits

- Price point makes real-time barcode scanning with an Android, Apple, Blackberry or Windows Mobile host device affordable
- Simple Bluetooth pairing and one-touch barcode scanning
- Supports HID and SPP Bluetooth profiles for added flexibility
- Ready-to-go out of the box, just pair it with your device
- High speed 100 scans/second laser barcode scanner
- Conveniently holds up to 20,000 scans when batch mode is required
- Leverage the free Software Development Kit (SDK) to customize scanning behavior
- Small form factor: 2.44" x 1.26" x 0.63" and weighs only 1.1 ounces
- 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
- Backed by a two year warranty

Operation

- **CPU:** 32-bit
- **OS:** Proprietary
- **Software:** 4 applications available (also programmable in C-language. Free software development kit with free RX compiler)
- **RTC:** Supports year, month, day, hour, minute, second (leap year supported)

Memory

- **System Flash:** 512 kB
- **RAM:** 96 kB
- **Storage Flash:** 1024 kB (>20.000 barcodes + time stamp)

Operating Indicators

- **Visual:** Multi color LED (red/green/orange/blue)
- **Audible:** Buzzer

Operating Keys

- **Entry Options:** 2 keys total, 1 function key, 1 scan key

Communication

- **USB:** Mini USB, Version 1.1, USB-VCP (USB-HID and USB-MSD on request)
- **Bluetooth:** Version 2.1, SPP, HID, 1 to 1 connection, master and slave mode, authentication and encryption, Secure Simple Pairing

Power

- **Battery:** Rechargeable Lithium-Ion Polymer 3.7V 240mAh
- **Operating Time:**
Batch: 1.000 scans (1 scan/5 sec)
Idle: 1-2 months
Bluetooth: Ca. 12 hours
- **RAM Data Retention Time:**
Empty: Ca. 72 hours
Full: 1-2 months
- **Charging Method:** Enclosed USB cable

Barcode Scanner Optics

- **Light Source:** 650 nm visible laser diode
- **Scan Method:** Vibrating mirror
- **Scan Rate:** 100 scans/sec
- **Reading Pitch Angle:** -25 to 0°, 0 to +25°
- **Reading Skew Angle:** -40 to -8°, +8 to +40°
- **Reading Tilt Angle:** -20 to 0°, 0 to +20°
- **Curvature:** R>15 mm (EAN8), R>20 mm (EAN13)
- **Minimum PCS value:** 0.45
- **Depth of Field (UPC @ PCS 0.9):**
39 mil (1.0 mm): 3.15 - 11.81 in (80 - 300 mm)
20 mil (0.5 mm): 2.36 - 9.84 in (60 - 250 mm)
10 mil (0.25 mm): 2.36 - 7.87 in (60 - 200 mm)
6 mil (0.15 mm): 2.36 - 5.12 in (60 - 130 mm)
5 mil (0.127 mm): 2.36 - 4.33 in (60 - 110 mm)

Supported Symbolologies

- **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 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Matrix 2of5, MSI/Plessey-UK/Plessey, S-Code, Telepen, Tri-Optic
- **Barcode (Postal Codes):** Chinese Post, Korean Postal Authority code

Durability

- **Temperature:**
Operation: 32 to 104 °F (0 to 40 °C)
Storage: -4 to 140 °F (-20 to 60 °C)
- **Humidity:**
Operation: 20 - 85% (noncondensing)
Storage: 20 - 85% (non-condensing)
- **Ambient Light Immunity:**
Fluorescent: ~ 4,000 lx
Incandescent: ~ 4,000 lx
Sunlight: ~ 80,000 lx
- **Drop Test:** 5 ft (1.5 m) onto concrete surface
- **Vibration Test:** 10 - 100 Hz with 2G for 30 min
- **Protection Rate:** IP 42

Physical

- **Dimensions (WxHxD):** 1.26 x 2.44 x 0.63 in (32 x 62 x 16 mm)
- **Weight (Body):** Ca. 1.0 oz (29 g) (including battery)
- **Case:** ABS, Black

Regulatory and Safety

- **Product Compliance:** CE, FCC, VCCI, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

Enclosed Items

- USB cable
- Neck strap