

OPTICON

Companion Scanner

OPN-2001

Ultra Compact Laser Barcode Scanner

USB (HID/VCP)



+ Features and Benefits

- Simple, one-touch barcode scanning
- Most affordable USB batch scanner
- Small form factor: 2.44" x 1.26" x 0.63" and weighs only 1 ounce
- Easily fits into 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

Operation

- **CPU:** ARM7 32-bit
- **OS:** Proprietary
- **RTC:** Supports year, month, day, hour, minute, second (leap year supported)

Memory

- **FlashROM:** 512 kB (Data storage >15.000 barcodes + time stamp)
- **RAM:** 64 kB

Operating indicators

- **Visual:** 1 LEDbar (red/green/orange)
- **Audible:** Buzzer

Operating keys

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

Communication

- **USB:** Mini USB, Version 1.1, VCP

Power

- **Rechargeable Battery:** Lithium-Ion 3.7V 150mAh
- **Operating Time:** 1.000 scans (1 scan/5 sec)
- **Charging 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:** 100 scans/sec
- **Reading Pitch Angle:** -30 to 0°, 0 to +30°
- **Reading Skew Angle:** -50 to -8°, +8 to +50°
- **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): 2.36 - 22.44 in (60 - 570 mm)
 - 20 mil (0.5 mm): 1.57 - 14.17 in (40 - 360 mm)
 - 10 mil (0.25 mm): 1.57 - 8.66 in (40 - 220 mm)
 - 6 mil (0.15 mm): 1.57 - 4.72 in (40 - 120 mm)
 - 5 mil (0.127 mm): 1.97 - 3.94 in (50 - 100 mm)

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 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)
- **Ambient Light Immunity:** White 3,000 lx max, Fluorescent 3,000 lx max, Direct sun 50,000 lx max
- **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 oz (28 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

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- **The Netherlands:** Hoofddorp
- **France:** Issy Les Moulineaux
- **Germany:** Dietzenbach
- **Italy:** Castel Maggiore (BO)
- **Sweden:** Järfälla
- **United Kingdom:** Luton, Bedfordshire

- **U.S.A.:** Renton, WA
- **Brazil:** São Paulo
- **Japan:** Warabi City
- **Taiwan:** Taipei
- **P.R.China:** Shanghai

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