

OPN2002

Bluetooth / USB Companion Scanner

Bluetooth (HID / SPP)

USB (VCP / MSD / HID)

Multi-Cradle



+ Features & Benefits

- Price point makes real-time barcode scanning with an Android, Apple, Blackberry or Windows Mobile host device affordable
- Small form-factor (1.3" x 2.4" x 0.7") makes the device easy to carry
- Supports HID and SPP Bluetooth profiles for flexibility
- Ready-to-go out of the box, just pair it with your device
- Conveniently holds up to 25,000 scans when batch mode is required
- Free SDK available to give you the option to customize scanning behavior for your target environment
- Two-year warranty protects your investment

Operation

- **CPU:** 32-bit
- **O/S:** Proprietary
- **Software:** Programmable in C-language. Software development kit with WinARM compiler free downloadable
- **RTC:** Supports year, month, day, hour, minute, second (leap year supported)

Memory

- **FlashROM:** 1 MB (Program storage + >25.000 barcodes + time stamp)
- **RAM:** 1 MB

Operating indicators

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

Operating keys

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

Communication

- **USB:** MiniUSB, Ver. 1.1, VCP
- **Bluetooth:** Ver. 1.2, SPP, HID, 1 to 1 connection, master mode, authentication and encryption

Power

- **Rechargeable battery:** Lithium-Ion Polymer 3.7V 240mAh
- **Operating time:** Ca. 7 hours
- **Data retention time:** Ca. 72 hours
- **Charging method:** Enclosed USB cable, separate cradle CRD2000 series
- **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:** -35 to 0°, 0 to +35°
- **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)
- **Min. PCS value:** 0.45
- **Depth of field:** At PCS 0.9 UPC
 - 60 - 570 mm / 2.36 - 22.44 in (1.0 mm / 39 mil)
 - 40 - 360 mm / 1.57 - 14.17 in (0.5 mm / 20 mil)
 - 40 - 220 mm / 1.57 - 8.66 in (0.25 mm / 10 mil)
 - 40 - 120 mm / 1.57 - 4.72 in (0.15 mm / 6 mil)
 - 50 - 100 mm / 1.97 - 3.94 in (0.127 mm / 5 mil)

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, S-Code, Telepen, Tri-Optic, UK/Plessey
- **Postal code:** Chinese Post, Korean Postal Authority code
- **2D code:** MicroPDF417, PDF417

Durability

- **Temperature in operation:** 0 to 50 °C / 32 to 122 °F
- **Temperature in storage:** -20 to 60 °C / -4 to 140 °F
- **Humidity in operation:** 20 - 85% (non-condensing)
- **Humidity in storage:** 20 - 85% (non-condensing)
- **Ambient light immunity:** White 3,000 lx max, Fluorescent 3,000 lx max, Direct sun 80,000 lx max
- **Protection rate:** IP 42

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 / 1.0 oz (incl. battery)
- **Case:** ABS, Black

Regulatory & 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

Sold separately

- **CRD2000RU10 Cradle:** Multi-cradle, 10 slots, RS232 + USB communication, charging

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- **The Netherlands:** Hoofddorp

- **France:** Issy Les Moulineaux

- **Germany:** Dietzenbach

- **Italy:** Villanova di Castenaso (BO)

- **Sweden:** Järfälla

- **United Kingdom:** Luton, Bedfordshire

- **U.S.A.:** Renton, WA

- **Brazil:** São Paulo

- **Japan:** Warabi City

- **Taiwan:** Taipei

- **P.R.China:** Shanghai

- **Australia:** West Ryde

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