OPTICON

Companion Scanner

OPN-4000i

CCD Bluetooth® Companion Scanner

Apple MFi

Bluetooth (HID/SPP)

USB (HID/VCP)

+ Features and Benefits

- CCD linear sensor rapidly scans and decodes 1D barcodes

- Price point makes real-time barcode scanning with an Android™, Apple® or Windows® device affordable

- Ready-to-go out of the box, just pair it with your Bluetooth device

- Supports Apple MFi, SPP and HID Bluetooth profiles for added flexibility

- Memory: 1 MB Flash ROM, 96 kB SRAM

- Small form factor: weighs only 1.87 oz, 3.27 x 1.42 x 0.85 in (LxWxD)

- Audible and visible feedback after a successful scan

- USB rechargeable, high capacity Lithium-Ion battery

- Extremely durable and reliable with a comprehensive two-year warranty that protects your investment

Made for
iPod iPhone iPad

+ Product Specification

Operation
- **CPU:** 32-bit CISC / 96 MHz O/S: Proprietary RTC: Supports year, month, day, hour, minute, second (leap year supported)

Memory
- **FlashROM:** 1 MB SRAM: 96 kB

Operating Indicators
- **Visual:** 1 LED (red/green), 1 LED (blue)
- **Audible:** Buzzer

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

Communication
- **USB:** mini USB
- **Bluetooth:** Version 2.1, SPP, HID, 1 to 1 connection, master / slave mode, authentication and encryption

Power
- **Rechargeable Battery:** Lithium-Ion Polymer 3.7V 600mAh
- **Operating Time:** 25 hours (2 scans / 10 sec incl Bluetooth communication)
- **Charging Method:** Enclosed USB cable

Barcode Scanner Optics
- **Light Source:** 1 red LED
- **Scan Method:** CCD linear sensor, 1500 pixels
- **Reading Pitch Angle:** -50 to 0°, 0 to +50°
- **Reading Skew Angle:** -65 to 0°, 0 to +65°
- **Reading Tilt Angle:** -25 to 0°, 0 to +25°
- **Curvature:** R>20 mm (EAN13) R>15 mm (EAN8) Min. resolution at PCS 0.9: 0.1 mm (Code 39)
- **Depth of Field at Code 39:**
  - 5 mil (0.127 mm) 2.95 - 4.72 in (75 - 120 mm)
  - 6 mil (0.15 mm) 2.56 - 5.12 in (65 - 130 mm)
  - 10 mil (0.254 mm) 2.17 - 8.66 in (55 - 220 mm)
  - 20 mil (0.508 mm) 2.17 - 9.45 in (55 - 240 mm)
  - 39 mil (1.0 mm) 2.76 - 20.47 in (70 - 520 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) (exl.stacked), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISSM-ISSN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- **Barcode (Postal Codes):** Chinese Post, Korean Postal Authority Code

Durability
- **Temperature:** Operation: 32° - 122° F (0° - 50° C) Storage: -4° - 140° F (-20° - 60° C)
- **Humidity:** Operation: 20 - 85% RH (non-condensing, non-freezing) Storage: 20 - 85% RH (non-condensing, non-freezing)
- **Ambient Light Immunity:** Fluorescent 10,000 lx max, Direct sun 100,000 lx max
- **Drop Test:** 5 ft (1.5 m) onto concrete
- **Protection Rate:** IP42

Physical
- **Dimensions (WxHxD):** 1.42 x 3.27 x 0.85 in (36 x 83 x 21.5 x mm)
- **Body Weight:** Ca. 1.87 oz (53 g) (incl. battery)
- **Case:** ABS, white

Regulatory and Safety
- **Product compliance:** CE, FCC, VCCI, RoHS, IEC62471-1, EN60950-1, IEC60950-1, EN55022, EN 55022, EN 301 489-1 V1.9.2, EN 301 489-17 V2.1.1, EN 300 328 V1.7.1

Enclosed items
- USB cable, neck strap

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  - Hardware disposal
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