

OPN3002i

2D Bluetooth Companion Scanner

Apple MFi

Bluetooth (HID/SPP)

USB (HID/VCP)



+ Features & Benefits

- 2D CMOS imager rapidly scans and decodes 1D and 2D barcodes
- Price point makes real-time barcode scanning with an Android, Apple, Blackberry or Windows devices 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
- Conveniently holds over 20,000 scans when batch mode is required
- Small form factor - weighs only 2 ounces, 3.27 (L) x 1.42 (W) x 0.85 (D) inches
- 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

Operation

- **CPU:** 32 bit CISC, 96 MHz
- **OS:** Proprietary
- **Software:** Proprietary
- **RTC:** Supported

Memory

- **System Flash:** 512 KB + 32 KB
- **Storage Flash:** 1 MB
- **RAM:** 96 KB

Operating Indicators

- **Visual:** LEDs (red, green, blue)
- **Audible:** Buzzer, volume adjustable
- **Physical:** Vibrator, strength adjustable

Operating Keys

- **Entry Options:** 1 Trigger key & 1 multi-function key

Communication

- **USB:** Full Speed, HID/VCP
- **Bluetooth:** 2.1 (Secure Simple Pairing support), HID/SPP, Class 2 (10 meter range)

Power

- **Battery:** 3.7 V, 600 mA rechargeable li-ion polymer
- **Operating Time:** 10 hours (1 scan/5 seconds, Bluetooth connected)
- **Charging Method:** USB

2D Imager Optics

- **Light Source (illumination):** 2 Red LED floodlights
- **Light Source (aiming):** 1 Green LED (bar shape)
- **Sensor:** WVGA (752 w x 480 h) 2D CMOS
- **Scan Rate:** 60 fps
- **Motion Tolerance:** Up to 2m/sec
- **Reading Pitch Angle:** $\pm 50^\circ$
- **Reading Skew Angle:** $\pm 50^\circ$
- **Reading Tilt Angle:** 180°
- **Focus Distance:** 4.9 in (124.8 mm)
- **Minimum PCS:** 0.30
- **Minimum Resolution:**
 - 1D Barcode: 5 mils (0.127 mm)
 - Composite Barcode: 6.65 mils (0.169 mm)
 - 2D Barcode: 8.35 mils (0.212 mm)
- **Field Of View:** 41° horizontal, 26.4° vertical
- **Curve Tolerance (PCS 0.9):**
 - Codabar (10 digit): $R \geq 0.63$ in (16 mm)
 - UPC (12 digit): $R \geq 0.79$ in (20 mm)

2D Imager Optics (continued)

- **Depth of Field:**
 - Code 39 @ 5 mils (0.127 mm): 3.54 - 4.33 in (90 - 110 mm)
 - Code 39 @ 10 mils (0.254 mm): 2.56 - 7.28 in (65 - 185 mm)
 - Code 39 @ 20 mils (0.508 mm): 2.56 - 10.24 in (65 - 260 mm)
 - Code 128 @ 7.87 mils (0.20 mm): 3.35 - 6.50 in (85 - 165 mm)
 - UPC @ 13 mils (0.33 mm): 2.17 - 7.68 in (55 - 195 mm)
 - PDF417 @ 6.65 mils (0.169 mm): 3.35 - 5.31 in (85 - 135 mm)
 - PDF417 @ 10 mils (0.254 mm): 2.56 - 7.09 in (65 - 180 mm)
 - QR Code @ 8.35 mils (0.212 mm): 3.54 - 4.33 in (90 - 110 mm)
 - QR Code @ 15 mils (0.381 mm): 2.17 - 7.09 in (55 - 180 mm)
 - Data Matrix @ 10 mils (0.254 mm): 3.35 - 5.31 in (85 - 135 mm)

Supported Symbolologies

- **Barcode (1D):** UPC/EAN/JAN (standard, composite, addon), Code 39, Codabar (NW7), Industrial 2 of 5, Interleaved 2 of 5, Code 128, Code 93, IATA, MSI/Plessey, UK/Plessey, Telepen, Code 11, Matrix 2 of 5, JPN, GS1-Databar (Limited, Expanded, Composite), GS1-128 (standard, composite)
- **Barcode (2D):** PDF417, micro PDF417, Codablock F, QR Code, Micro QR Code, Data Matrix (ECC 000-140 & ECC 200), Aztec Code, Aztec Runes, Chinese Sensible Code, Maxicode
- **Barcode (Postal Codes):** Chinese Post Matrix 2 of 5, Korean Postal Authority, Intelligent Mail Barcode, Postnet

Durability

- **Temperature:**
 - Operation: $32^\circ - 122^\circ$ F ($0^\circ - 50^\circ$ C)
 - Storage: $-4^\circ - 140^\circ$ F ($-20^\circ - 60^\circ$ 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
 - Incandescent: 10,000 lx max
 - Sunlight: 100,000 lx max
- **Drop Test:** 5 ft (1.5 m) drop to concrete
- **Vibration Test:** 1 hour at 10 - 100Hz
- **Protection Rate:** IP42

Physical

- **Dimensions (LxDxW):** 3.27 x 0.85 x 1.42 in (83 x 21.5 x 36 mm)
- **Body Weight:** 2 oz (57 grams)

Regulatory & Safety

- **LED Safety:** IEC 62471-1:2006 Risk License Group
- **Product Safety Standards:** EN60950-1:2005, IEC60950-1:2006
- **EMC:** EN55022, EN55024, FCC Part 15 Subpart C (Subpart B Class B), Class B VCCI
- **Certification Standards:** CE
- **Other:** Apple MFi License, Bluetooth Logo Authenticator

Enclosed Items

- OPN3002i, USB cable (data / charging), Lanyard (neck strap)

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