

Companion Scanner

OPN-3002i

2D Bluetooth® Companion Scanner

Apple MFi

Bluetooth (HID/SPP)

USB (HID/VCP)



+ Features and 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 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

Operation

• CPU: 32 bit CISC, 96 MHz

• **0S**: 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 and 1 multi-function kev

Communication

• USB: Full Speed, HID/VCP

• Bluetooth: 2.1 (Secure Simple Pairing support), HID/SPP, Class 2 (10 meter range)

Power

• Rechargeable Battery: Lithium-Ion polymer 3.7V 600 mAH

• 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: ± 50° • Reading Skew Angle: ± 50° • 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: horizontal 41°, vertical 26.4°

• Curve Tolerance (PCS 0.9):

- Codabar (10 digit): R ≥0.63 in (16 mm)

- UPC (12 digit): R ≥0.79 in (20 mm)

• Depth of Field:

- Code 39 at 5 mils (0.127 mm): 3.54 - 4.33 in (90 - 110 mm)

- Code 39 at 10 mils (0.254 mm): 2.56 - 7.28 in (65 - 185 mm)

- Code 39 at 20 mils (0.508 mm): 2.56 - 10.24 in (65 - 260 mm)

- Code 128 at 7.87 mils (0.20 mm): 3.35 - 6.50 in (85 - 165 mm)

- UPC at 13 mils (0.33 mm): 2.17 - 7.68 in (55 - 195 mm)

- PDF417 at 6.65 mils (0.169 mm): 3.35 - 5.31 in (85 - 135 mm)

- PDF417 at 10 mils (0.254 mm): 2.56 - 7.09 in (65 - 180 mm)

- QR Code at 8.35 mils (0.212 mm): 3.54 - 4.33 in (90 - 110 mm)

 QR Code at 15 mils (0.381 mm): 2.17 - 7.09 in (55 - 180 mm)

Data Matrix at 10 mils (0.254 mm): 3.35 - 5.31 in (85 - 135 mm)

Supported Symbologies

· 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° - 122° F (0° - 50° C) Storage: -4° - 140° F (-20° - 60° C)

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) onto to concrete

Vibration Test: 1 hour at 10 - 100Hz

• Protection Rate: IP42

Physical

 Dimensions (WxHxD): 3.27 x 0.85 x 1.42 in (83 x 21.5 x 36 mm)

• Body Weight: 2 oz (57 g)

Regulatory and 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

• OPN-3002i, USB cable (data/charging), Lanyard (neck strap)

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