OPTICON

OPI-3301

2D Bluetooth CMOS Imager with Auto-Focus

Bluetooth

Cradle: Bluetooth, USB HID and RS232

+ Features and Benefits

- Full spectrum illuminated 2D Bluetooth CMOS imager

- Uses LEDs for lighting and features a red laser spot for aiming

- Rapidly scans and decodes 1D or 2D barcodes

- Compact size and ultra-lightweight – 2.2"W x 5.39"H x 4.45"D and 3.9 ounces including battery

- Durable – withstands five-foot drop onto concrete and IP42 rating for water and dust protection

- Communicates and charges via cradle (CRD3301 – sold separately)

- CRD3301 cradle supports Bluetooth, RS232 and USB HID

- Two year warranty protects your investment

+ Product Specification

Memory
- **RAM:** 1 MB
- **Flash ROM:** 1 MB SDRAM

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

Operating Keys
- **Entry Options:** 1 scan key

Communication
- **Bluetooth:** Version 2.0, SPP, output power class 2, range up to 10 m, 1 to 1 connection, master/slave mode, authentication and encryption

Power
- **Current Consumption:** 150mA (stand by), max. 300mA
- **Rechargeable Battery:** Lithium-Ion 3.7V 1100mAh
- **Operating Time Stand by:** Approx 15 hours (with wireless connection).
- **Reading:** Approx. 10 hours (1 scan/5 sec)
- **Charging Method:** Separate cradle CRD3301
- **Battery Charging Time:** Ca. 3 hours (when charged with power supply), ca. 6 hours (when charged with USB)

2D Imager Optics
- **Light Source:** Aiming laser diode, illumination LEDs
- **Scan Method:** CMOS area sensor, 900 x 512 pixels, gray scale
- **Scan Rate:** Up to 80 fps(excl. focusing)
- **Image Format:** Bitmap, JPEG
- **Reading Pitch Angle:** -50 to 0°, 0 to +50°
- **Reading Skew Angle:** -50 to 0°, 0 to +50°
- **Reading Tilt Angle:** 360°
- **Minimum Resolution at PCS 0.9:** 5 mil (0.127 mm)
- **Minimum PCS Value:** 0.45
- **Field of View:** Horizontal 40°, Vertical 23°
- **Depth of Field:**
  - Code 39 at 5 mil (0.127 mm): 0.59 - 2.17 in (15 - 55 mm)
  - Code 39 at 10 mil (0.254 mm): 0.59 - 7.87 in (15 - 200 mm)
  - Code 39 at 39 mil (1.0 mm): 3.54 - 34.25 in (90 - 870 mm)
  - QR Code at 13 mil (0.339 mm): 0.59 - 6.69 in (15 - 170 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-ISSN-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- **Barcode (2D):** Aztec Code, Aztec Runes, Chinese Sensible code, Codablock F, Composite codes, Data Matrix (ECC200/EC0-140), Maxi Code (mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code
- **Barcode (Postal Codes):** Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET

Durability
- **Temperature:**
  Operation: -4 - 122 °F (-20 - 50 °C)
  Storage: -13 - 140 °F (-25 - 60 °C)
- **Humidity:**
  Operation: 5 - 85% (noncondensing)
  Storage: 5 - 85% (non-condensing)
- **Ambient Light Immunity:** Fluorescent 10,000 lx max, Direct sun 100,000 lx max, Incandescent
- **10,000 lx max Drop test:** 5 ft (1.5 m) onto concrete
- **Vibration Test:** 10 - 100 Hz with 2G for 1 hour
- **Protection Rate:** IP 42

Physical
- **Dimensions (WxHxD):** 2.20 x 5.39 x 4.45 in (56 x 137 x 113 mm)
- **Weight (Body):** Ca. 3.9 oz (110 g) (incl battery)
- **Case:** ABS, black or white

Regulatory and Safety
- **Product Compliance:** CE, FCC, VCCI, RoHS, IEC 60825-1 Class 2, IEC 62471, IEC 60825-1 Class 1, IEC 60950-1

Enclosed Items
- Hand strap

Sold Separately
- **CRD3301 Cradle:** Bluetooth communication, charging

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