

# OPR-3301

## Bluetooth™ Barcode Laser Scanner

**Bluetooth**

**Cradle: Bluetooth, USB HID and RS232**



### + Features and Benefits

- Bluetooth barcode laser scanner
- Rapidly scans and decodes ID barcodes at 100 scans/second
- Ideal scanner for retail point-of-sale, inventory or logistics applications
- Compact size and weight – 2.20"W x 5.39"L 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

## 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 16 hours (with wireless connection).
- **Reading:** Approx. 15 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/ECO-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 to 122 °F (-20 to 50 °C)  
Storage: -13 to 140 °F (-25 to 60 °C)
- **Humidity:**  
Operation: 5 - 85% (noncondensing)  
Humidity: 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 surface
- **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

Copyright 2014 Opticon. All rights reserved. This information is subject to change without notice. For availability, contact your local representative.

- **The Netherlands:** Hoofddorp  
- **France:** Issy Les Moulineaux  
- **Germany:** Dietzenbach  
- **Italy:** Castel Maggiore (BO)  
- **Sweden:** Järfälla  
- **United Kingdom:** Luton, Bedfordshire

- **U.S.A.:** Renton, WA  
- **Brazil:** São Paulo  
- **Japan:** Warabi City  
- **Taiwan:** Taipei  
- **P.R.China:** Shanghai

**Opticon, Inc.**  
2220 Lind Ave. SW, Suite 100  
Renton, WA 98057  
**Toll Free:** 800.636.0090  
**Local:** 425.651.2120  
**Fax:** 425.454.0865  
**Email:** Sales@OpticonUSA.com  
**Email:** Support@OpticonUSA.com

# OPTICON

WWW.OPTICONUSA.COM