

OPL7734

Barcode Laser Scanner

2.4 GHz Wireless (IEEE 802.15.4)

USB-HID (via OPA-1001 wireless adapter)

RS232 (via CRD7734 wireless charging cradle)



+ Features & Benefits

- Visible red-line laser scanner
- 2.4 GHz (15 configurable channels) wireless scanning up to 100 feet
- IEEE 802.15.4 communication protocol delivers lower power draw to preserve battery life
- Scanned data can be stored in the embedded memory when the scanner is outside the wireless communication range
- Rugged – withstands five foot drop to concrete
- Long life lithium-Ion 600 mAh, 3.7V battery
- Connects to a host device with a wireless USB dongle (OPA1001)
- The CRD7734 is a communication (RS-232C or USB interface) and charging cradle designed for the OPL7734 scanner
- Two year warranty protects your investment

Operation

- **CPU:** 16-bit CMOS

Memory

- **FlashROM:** 256 kB
- **RAM:** 32 kB SRAM

Operating Indicators

- **Visual:** 1 LED (red/green/orange)
- **Audible:** Buzzer

Operating Keys

- **Buttons:** 1 scan key

Power

- **Battery:** Lithium-Ion 600 mAh, 3.7V
- **Charge time:** 2 1/2 hours
- **Battery life*:** 300 charge/discharge cycles
*Other factors may impact battery life
- **Usage time (per charge):** 50+ hours
(calculated at 1 scan every 5 seconds)
- **Current consumption:**
 - Standby: $\leq 1\text{mA}$
 - Active: $\leq 35\text{mA}$
- **Charging method:** Separate cradle CRD7734

Communication

- **IEEE 802.15.4:** Output power class 2, 1 to 1 / 8 to 1 connection (8 scanners to 1 CRD-7734), encryption
- **Range:** 30 m (depending on environment)
- **Frequency:** 2.4 GHz range (15 configurable channels)
- **Baud rate:** 115.2 Kbps

Barcode Scanner Optics

- **Light source:** 650 nm visible laser diode
- **Scan rate:** 100 scans/sec
- **Trigger mode:** Manual
- **Reading pitch angle:** $\pm 20^\circ$
- **Reading skew angle:** -50 to -8° , $+8$ to $+50^\circ$
- **Reading tilt angle:** $\pm 20^\circ$
- **Curvature:**
 - EAN-8: $R \geq 15\text{ mm}$
 - EAN-13: $R \geq 20\text{ mm}$
- **Min. resolution (@ PCS 0.9):** 0.15 mm (6 mil)
- **Min. PCS value:** 0.45
- **Depth of field (Code 39 @ PCS 0.9):**
 - 1 mm (39 mils): 50-360 mm (1.97-14.17 in)
 - 0.5mm (20 mils): 30-270 mm (1.18-10.63 in)
 - 0.25 mm (10 mils): 30-140 mm (1.18-5.51 in)
 - 0.15 mm (6 mils): 30-70 mm (1.18-2.76 in)

Supported Symbolologies

- **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 2 of 5, Interleaved 2 of 5, ISBN-ISMN-ISSN, Matrix 2 of 5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- **Postal code:** Chinese Post, Korean Postal Authority code
- **2D code:** Composite codes, MicroPDF417, PDF417

Durability

- **Temperature in operation:** 0 to 40 °C / 32 to 104 °F
- **Temperature in storage:** -20 to 60 °C / -4 to 140 °F
- **Humidity in operation:** 25 - 85 % (non-condensing)
- **Humidity in storage:** 20 - 90 % (non-condensing)
- **Ambient light immunity:**
 - Fluorescent: 3,000 lx max
 - Incandescent: 3,000 lx max
 - Direct sun: 50,000 lx max
- **Drop test:** 1.5 m / 5 ft drop onto concrete surface

Physical

- **Dimensions (w x h x d):** 55 x 150 x 115 mm (2.17 x 5.91 x 4.53 in)
- **Weight body:** Ca. 130 g (5 oz) incl. battery
- **Case:** ABS, Black or White

Regulatory & Safety

- **Product compliance:** CE, FCC, VCCI, RoHS, JIS-C-6802 Class 2, FDA CDRH Class 2, EN300 328, IEC60950-1

Sold Separately

- **Cradle:** CRD7734 network and charging cradle
- **USB adapter:** OPA1001 wireless USB dongle



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