1D LASER

OPL 7734

Wireless Handheld laser scanner
IEEE 802.15.4 based

The OPL 7734 handheld barcode scanner features 802.15.4 based wireless connectivity with the ability to connect multiple scanners through one gateway. The scanner operates wireless up to 30 meters.

Product Features

IEEE 802.15.4 communication interface
The Opticon implementation of the IEEE 802.15.4 protocol provides 1 to n communication. In this network numerous power-saving scanners can communicate to one controller. To complete the kit Opticon developed the controller, a cradle for data communication and charging. It supports a RS232 and USB connection.

High Performance
High performance 1D linear scanner provides a fast and accurate first time scan and is immediately ready for the next scan even when the barcodes are printed with low contrast or high density.

Light and Durable Construction
Ergonomic design featuring a sleek, lightweight, and balanced design endures the rigors of everyday use and withstands drops of up to 1.5 m (5 ft) onto concrete. Made of high-quality material that feels solid in the hand, it is perfect for general scanning.

Power saving operation
The power management of the IEEE 802.15.4 devices is developed for unprecedentedly fast representative times. The devices can quickly wake-up, exchange information, and return to sleeping mode to save energy of the device and achieve a very long battery life.

Specifications

OPL 7734 Wireless Handheld laser scanner IEEE 802.15.4 based

Electrical specifications

Main battery pack: Li-Ion rechargable 3.7 V nom. 600 mAh
Main battery pack operating time: 50 hours (1 scan / 5 sec.)
Charging method: Charge through Opticon cradle CRD 7734
Battery charging time: 2.5 hours

Optical specifications

Light source: 650 nm visible laser diode
Scan rate: 100 scans/sec
Reading pitch angle: -20 to 0°, 0 to +20°
Reading skew angle: -50 to -8°, +8 to +50°
Reading tilt angle: -25 to 0°, 0 to +25°
Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
Min. resolution at PCS 0.9: 0.15 mm / 6 mil
Min. PCS value: 0.45
Depth of field: at PCS 0.9 Code 39
50 - 360 mm / 1.97 - 14.17 in (res. 1.0 mm / 39 mil),
30 - 270 mm / 1.18 - 10.63 in (res. 0.5 mm / 20 mil),
30 - 140 mm / 1.18 - 5.51 in (res. 0.25 mm / 10 mil),
30 - 70 mm / 1.18 - 2.76 in (res. 0.15 mm / 6 mil)

Communication specifications

Available interfaces: IEEE 802.15.4
Output power level: 0.0 dBm (1.0 mW)
Frequency: 2.4 GHz
Operation range: depending on environmental characteristics the prospective reach distance is 30 meters
Connection mode: 1 to 1 / 8 to 1 (8 scanners to 1 CRD-7734)
Security mode: Encryption

Identification

Supported barcode symbologies (1D): JAN/UPC/EAN (WPC) incl. add on, Chinese Post, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Korean Postal Authority code, Matrix 2of5, MSI/Plessey-UK/Plessey, RSS, S-Code,Telepen, Tri-Optic, Composite codes
Supported 2D code symbologies: MicroPDF417, PDF417

Functionality

Trigger mode: manual
Memory FlashROM: 256 kB
Memory fastRAM: 32 kB
Microprocessor: 16-bit CMOS CPU

Environmental specifications

Temperature in operation: 0 to 40 °C / 32 to 104 ºF
Temperature in storage: -20 to 60 °C / -4 to 140 ºF
Humidity in operation: 25 - 85 % (non-condensing)
Humidity in storage: 20 - 90 % (non-condensing)
Ambient fluorescent light rejection: 3,000 lx max.
Ambient direct sun light rejection: 50,000 lx max.
Ambient incandescent light rejection: 3,000 lx max.
Antistatic electricity: 15 kV (non-destructive)
Shock drop test: 1.5 m / 5 ft drop onto concrete surface

Physical specifications

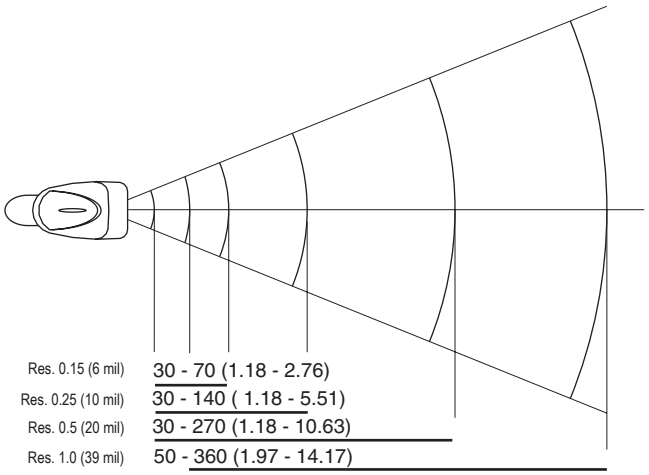
Dimensions: 150 x 55 x 115 mm / 5.91 x 2.17 x 4.53 in
Case material: Ca. 130 g / 5 oz

Regulatory

Laser safety class: JIS-C-6802 Class 2
Product compliance: CE, FCC, VCCI, RoHS

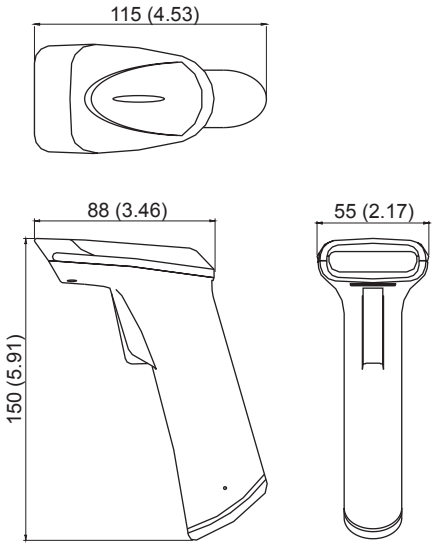
Depth of field

Unit: mm (inches)



Dimension

Unit: mm (inches)



Accessories

Sold separately
Charging and communication station CRD 7734

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Opticon Sensors Europe B.V.
European headquarters
Opaallaan 35
2132 XV Hoofddorp
The Netherlands
phone: +31 (0)23-5692700
fax: +31 (0)23-5638266
email: sales@opticon.com
internet: www.opticon.com

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