

1D LASER

OPR 3101

Rugged Wireless Scanner



The rugged OPR 3101 is an ergonomic yet lightweight laser scanner using the Bluetooth interface and delivering reliability and durability in harsh, dirty or extreme conditions.

Product Features

Rugged for Demanding Environments

The rugged housing of the OPR 3101 is sealed to IP54 standards and holds up well in environments where water and dust resistance is required. The OPR 3101 withstands multiple drops of up to 2 meters (6.5 feet) onto concrete and features a trigger guard to prevent accidental scans, yet the ergonomic grip provides the user all-day comfort.

Bluetooth Interface

The OPR 3101 uses the widely available and reliable Bluetooth wireless communication protocol which allows the scanned data to be instantly transmitted to any Bluetooth capable device.

Onboard Data Backup

Scanned data is stored onboard the OPR 3101 in case the Bluetooth receiver moves out of range or is temporarily unavailable, thus preventing data loss as well as retracing time lost, contributing to continuous mobile working.

Good Read Indicator

A large and bright LED along with an adjustable tone provides a good-read indication especially when operating in low-light or noisy environments.

Cabled

Wireless

Stationary

OEM

OPTICON
always scanning for new ID's

Specifications

OPR 3101 Rugged Handheld Laser Scanner

Electrical specifications

Current consumption: 165 mA (typical use), max. 220 mA
Main battery pack: Lithium-Ion 3.7 V, 1620 mAh
Main battery pack operating time: 25 hours (1 scan / 5 sec.)

Optical specifications

Light source: 650 nm visible laser diode
Scan method: Bi-directional scanning
Scan rate: 100 scans/sec
Reading pitch angle: -35 to 0°, 0 to +35°
Reading skew angle: -50 to -8°, +8 to +50°
Reading tilt angle: -20 to 0°, 0 to +20°
Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
Reading width: depending on reading distance and barcode label resolution
Min. resolution at PCS 0.9: 0.127 mm / 5 mil
Min. PCS value: 0.45
Depth of field: at PCS 0.9, Code 39
40 - 720 mm / 1.57 - 28.35 in (res. 1.0 mm / 39 mil),
20 - 430 / 0.79 - 16.93 in (res. 0.5 mm / 20 mil),
20 - 230 / 0.79 - 9.06 in (res. 0.25 mm / 10 mil),
20 - 120 mm / 0.79 - 4.72 in (res. 0.15 mm / 6 mil),
30 - 100 mm / 1.18 - 3.94 in (res. 0.127 mm / 5 mil)

Communication specifications

Bluetooth interface: ver. 2.0
Output power level: Class 2
Profile: SPP
Frequency: 2.4 Ghz
Operation range: depending on environment characteristics, the prospective reach distance is 10 meters
Connection mode: 1 to 1
Operation mode: master / slave

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, auto-trigger

Environmental specifications

Temperature in operation: -10 to 60 °C / 14 to 140 °F
Temperature in storage: -20 to 60 °C / -4 to 140 °F
Humidity in operation: 5 - 95 % (non-condensing)
Humidity in storage: 5 - 95 % (non-condensing)
Ambient fluorescent light rejection: 4,000 lx max.
Ambient direct sun light rejection: 80,000 lx max.
Ambient incandescent light rejection: 4,000 lx max.
Shock drop test: 2 m / 6.5 ft drop onto concrete surface
Shock vibration test: 10 - 100 Hz with 2G for 30 min
Protection (dust and moisture, IEC529): IP 54

Physical specifications

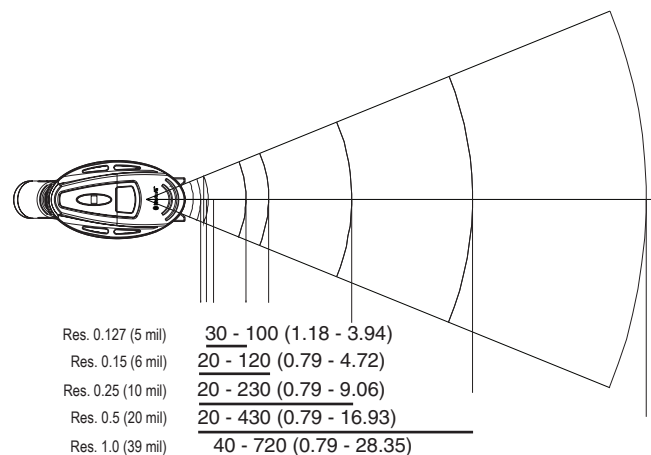
Dimensions: 68 x 155 x 165 mm / 2.68 x 6.10 x 6.50 in
Case material: ABS
Weight body: Ca. 250 g / 8.8 oz

Regulatory

Laser safety class: JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II
Product compliance: CE, FCC, VCCI, RoHS
R&TTE: EN300 328, EN301 489

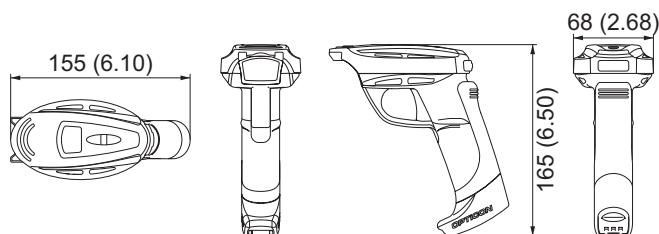
Depth of field

Unit: mm (in)



Dimensions

unit: mm (in)



Accessories

Sold Separately
Dedicated Communication Cradle: CRD-3101
Dedicated Power Charger: CHG-3101