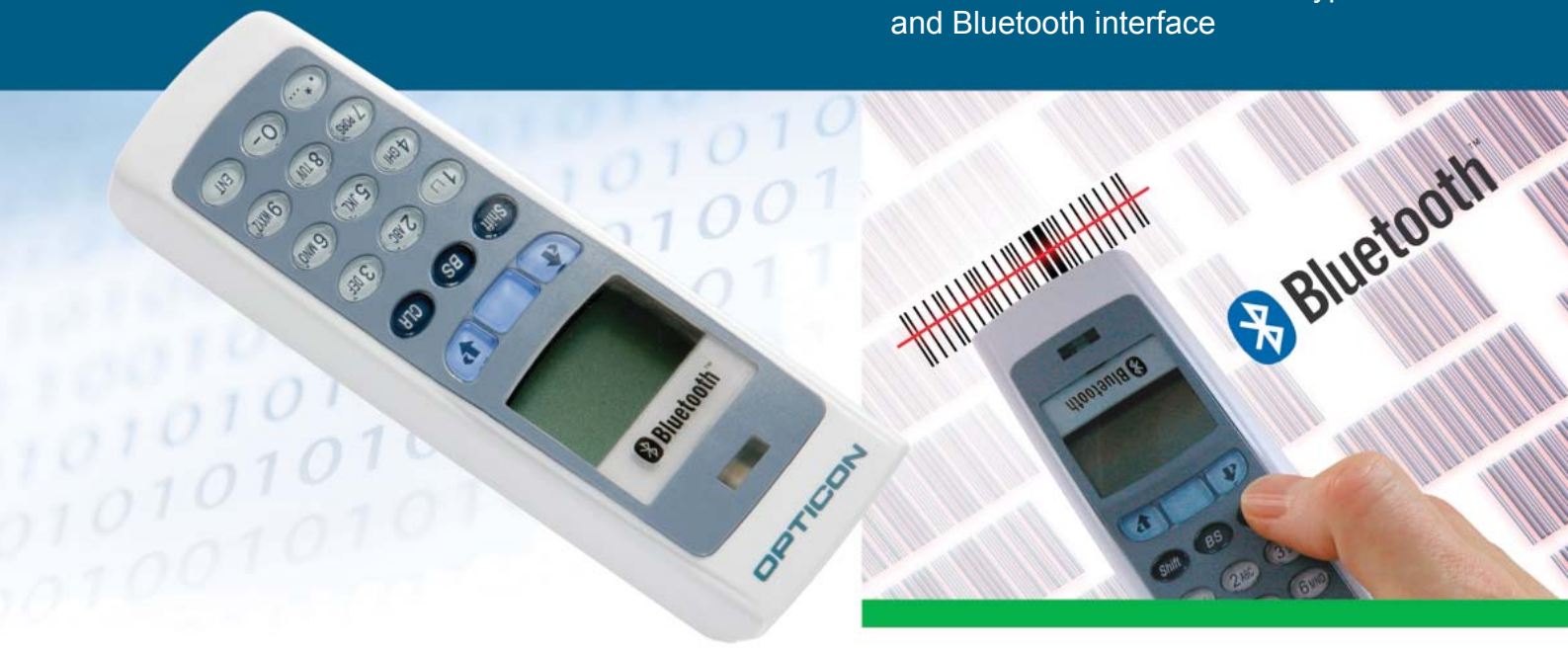
DATA COLLECTOR

OPL 9712

Barcode data collector with keypad and Bluetooth interface



The OPL 9712 is a pocket-sized data collector with a Bluetooth interface. It is the ideal tool for data collection when data entry via keypad is required in addition to scanning barcodes.

Product Features

Bluetooth Interface
The OPL 9712 uses the widely available and reliable Bluetooth wireless communication protocol which allows the scanned data to be instantly transmitted to any Bluetooth capable mobile device.

Onboard Data Processing
The onboard memory stores applications that allow for real-time data manipulation before being transmitted to any Bluetooth enabled device. The OPL 9712 also stores data in case the Bluetooth receiver moves out of range or is temporarily unavailable thus preventing data loss.

Mobility at Hand
The small size and light weight of the OPL 9712 (4.4 cm width, 12.9 cm length, 105 grams / 1.73 in width, 5.08 in length, 3.7 ounces) creates an easy to use tool for mobile operations. With a configuration similar to a mobile phone, the OPL 9712 requires minimal training which leaves end-users to focus on the business at hand, scanning barcodes with the option to enter any additionally required data.

Data Transmission Choice
In the event Bluetooth is not a supported protocol, or there is no reliable Bluetooth signal in the operating area, the OPL 9712 provides the option to transmit data using IrDA via the charging cradle so that collected data will always be recorded.

Specifications

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Electrical specifications

Main battery pack: Li-Ion rechargeable 3.7 V nom. 600 mAh
Main battery pack operating time: Ca. 50 hrs (1 scan / 5 sec. without communication)
Backup battery: Lithium rechargeable 3.5 mAh
Backup battery operating time: Ca. 72 hours
Charging method: The main battery in data collector will be charged through the cradle. The backup battery will be charged by the main battery.

Optical specifications

Light source: 650 nm visible laser diode
Scan method: vibrating mirror
Scan rate: 100 scans/sec
Decode rate: 100 decodes/sec
Reading pitch angle: -25 to 0º, 0 to +25º
Reading skew angle: -50 to -8º, +8 to +50º
Reading tilt angle: -20 to 0º, 0 to +20º
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
60 - 300 mm / 2.36 - 11.81 in (res. 1.0 mm / 39 mil),
35 - 210 mm / 1.38 - 8.27 in (res. 0.5 mm / 20 mil),
35 - 120 mm / 1.38 - 4.72 in (res. 0.25 mm / 10 mil),
35 - 70 mm / 1.38 - 2.76 in (res. 0.15 mm / 6 mil)

Communication specifications

Details: Bluetooth Ver. 2.0, IrDA Ver. 1.2
Frequency: 2.4 GHz
Profile: GAP, SPP, DUN
Operation range: depending on environment characteristics the prospective reach distance is 10 meters
Connection mode: 1 to 1
Operation mode: master, slave
Low power mode: park, sniff, hold
Security mode: authentication, 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-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: 512 kB
Memory RAM: 512 kB
Microprocessor: 16-bit
Real time clock: Quartz RTC, time and date programmable, leap year handling, (accuracy +/- 60 sec./month)
Display: 112x64 Pixels graphic LCD
Character fonts: min. 4 lines x 14 characters, max. 10 lines x 18 characters
Keyboard: 18 keys total, 2 function keys, 1 scan key
Keyboard mode: Alphanumeric
Transmission speed IrDA: 2.4 - 115.2 kbps

Environmental specifications

Temperature in operation: 0 to 40 ºC / 23 to 104 ºF
Temperature in storage: -20 to 60 ºC / -4 to 140 ºF
Humidity in operation: 20 - 85 % (non-condensing)
Humidity in storage: 20 - 90 % (non-condensing)
Ambient fluorescent light rejection: 3,000 lx max
Ambient white light rejection: 3,000 lx max
Ambient direct sun light rejection: 50,000 lx max
Shock drop test: 1.5 m / 5 ft drop onto concrete surface
Shock vibration test: 12 - 100 Hz with 2G for 1 hour
Protection (dust and moisture, IEC529): IP 54

Physical specifications

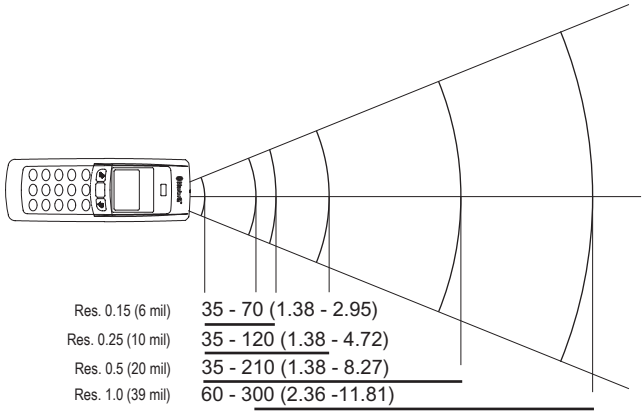
Dimensions: 129 x 44 x 23 mm / 5.08 x 1.73 x 0.90 in
Case material: ABS
Weight body: Ca. 105 g / 3.7 oz

Regulatory

Laser safety class: JIS-C-6802 Class 1, IEC 60825-1 Class 1, FDA CDRH Class I
Product compliance: CE, FCC, VCCI, RoHS
R&TTE: EN 300-328, ETS 301-489

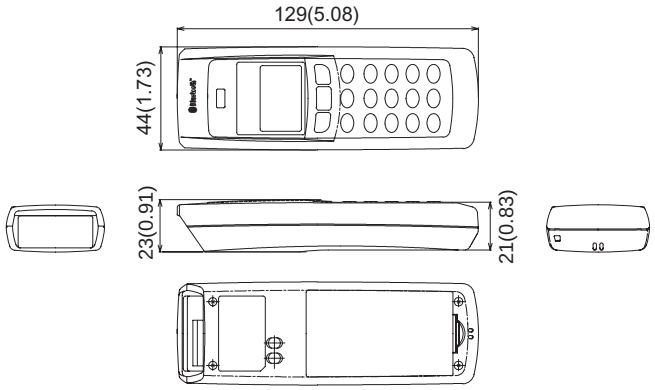
Depth of field

Unit: mm (inches)



Dimension

unit: mm (inches)



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