



OPL 9724

**Barcode identification
Data collector with Bluetooth
interface**

The OPL 9724 barcode data collector provides data collection and wireless communication. The integrated radio module ensures reliable, wireless, on-line data communication based on the standardized Bluetooth communication technology. The SPP and DUN profile are supported.

This model comes with three user definable buttons, LCD display, and a real-time clock with data memory. The product is so small (125x42x19mm by dimensions and 85g by weight) that it fits in every pocket and can accompany a user all the time.

The barcode data collector is powered by a rechargeable Li-Ion battery. Charging of the battery can be achieved by the cradle CRD 9722, which is a charging station for the barcode data collector.

Customer applications can be downloaded through the Bluetooth interface. If IrDA interface is preferred for downloading Opticon can supply the applicable hardware and software.



Features & Benefits

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| ■ Bluetooth interface | ■ Enables wireless communication |
| ■ SPP and DUN profiles supported | ■ Direct connection to the popular bluetooth profiles |
| ■ Three buttons operation | ■ Plain and simple navigation |
| ■ LCD display | ■ Clear overview |
| ■ Small size and light weight | ■ Easy to carry |
| ■ Flash ROM and RAM memory | ■ Provides program and data storage |



Specifications

OPL 9724 Data collector with Bluetooth interface

Electrical specifications

Main battery pack	Li-Ion rechargeable 3,7 V / nom. 600 mAh
Main battery condition	Different operation conditions affect the operating time
Backup battery	Lithium rechargeable 3,5 mAh
Battery management	When battery is low the terminal switches off automatically.
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 angle	effective 44°
Reading pitch angle	+8 - +50° / -8 - -50°
Reading skew angle	± 35°
Reading rotation angle	20°
Reading width	45 - 320mm, depending on reading distance and bar code label resolution
Resolution at PCS 0.9	0.15 mm (6mil)
Min. PCS value	0.45
Depth of field	60 - 300 mm (UPC PCS0.9, resolution 1.00), 35 - 210 mm (UPC PCS0.9, resolution 0.5), 35 - 120 mm (UPC PCS0.9, resolution 0.25), 35 - 70 mm (UPC PCS0.9, resolution 0.15)

RF-Communication specifications

Frequency	2.4 GHz
Profile	Bluetooth: GAP, SPP, DUN
Operation range	up to 10 meters, depending on environment characteristics
Connection mode	1 to 1
Operation mode	master, slave
Low power mode	park, sniff, hold
Security mode	authentication, encryption

Identification specifications

Supported barcode symbologies	Codabar ABC and CX - Code 39 - Code 93 - Code 128 - EAN-8 incl. +2,+5 - EAN-13 incl. +2,+5 - EAN-128 - IATA - Industrial 2of5 - Interleaved 2of5 - Italian Pharmaceutical - Laetus - MSI/Plessey - UK/Plessey - Telepen - UPC-A incl. +2,+5 - UPC-E incl. +2,+5
Future extension	Chinese Post - Codabar ABC and CX - ISBN - ISSN

Functionality

Trigger mode	manual by trigger key
Memory FlashROM	512 kB (O/S and program)
Memory RAM	128 kB (data storage)
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 total keys	3 keys total (user definable)
Keyboard function keys	2 function keys
Programming	Functionality is provided by user application.
Interface IrDA	supported
Interface Bluetooth	supported (see RF-Communication)
Transmission speed IrDA	baudrate: 2400 - 115200 bps

Environmental specifications

Temperature in operation	-5 - +40 °C
Temperature in storage	-20 - +60 °C
Humidity in operation	20 - 80 % (non condensing)
Humidity in storage	20 - 90 % (non condensing)
Ambient fluorescent light rejection	3.000 lux max
Ambient white light rejection	3.000 lux max
Ambient direct sun light rejection	50.000 lux max
Shock vibration test	12 - 100 Hz with 2G for 1 hour
Protection against dust and moisture, According to IEC529	IP 54

Physical specifications

Dimensions	(l x w x d) 125 x 42 x 19 mm
Case material	ABS
Weight body	< 85 g

Regulatory

Laser safety class	IEC 825, Class I laserproduct
EMC	EN 55022, EN 55024
R&TTE	EN 300-328, ETS 300-826

CRD 9722 Charging cradle for OPL 972X

Electrical specifications

Voltage requirement	6 V DC, +/- 10%
Current consumption	< 300 mA
Battery charging time	automatically determined

Physical specifications

Dimensions	(h x w x d) (excl. cable and operation space) excl. collector 65 x 72 x 97 mm / incl. collector 122 x 72 x 97 mm
Case material	ABS
Weight body	< 85 g

Models

For communication/charging	CRD-9723-RS232C+COM_CABLE
For charging	CRD-9722-CHARGER

Regulatory

EMC	EN 55022, EN 55024
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