



# OPL 9725

barcode data collector  
with IrDA interface

*The OPL-9725 barcode data collector comes with one trigger button and a real-time clock with data memory.*

*An application, which requires barcode data capture and time stamp, is easily programmed by using ANSI C programming language.*

*The product is so small (125x42x19mm by dimensions and 85g by weight) that it accompanies a user all the time.*

*The CRD-9723 is a communication and re-charging cradle for OPL-9725. It interfaces to a host PC with RS-232C or RS-485.*

## Features

- One button operation
- Small size and light weight
- Flash ROM memory
- RAM memory
- Optical data transmission to cradle
- IP 54 protection

## Benefits

- Plain and simple use
- Easy to carry
- Provides program storage
- Provides data collection storage
- Assures reliable communication to computer
- Enables outdoor use



**CRD 9723**  
Cradle for battery charging  
and data transmission



**OPL 9725**  
one button operated barcode  
laser scanner and collector

# SPECIFICATIONS OPL 9725 barcode data collector with IrDA interface

## Electrical specifications

Main battery	Lithium rechargeable nom. 720 mAh
Main battery operating time	When making every 5 seconds 1 scan with 1 sec laserbeam on and 0.2 sec. green LED on and 0.2 sec. buzzer on, operating time is: approx. 35 hours
Backup battery	Lithium rechargeable 3,5 mAh
Backup battery operating time	> 1 week backup time
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 width	45 - 305 mm, depending on reading distance and bar code label resolution
Reading angles	<input type="checkbox"/> Pitch: +8 - +50° / -8 - -50° <input type="checkbox"/> Skew: ± 25° <input type="checkbox"/> Rotation: 20°
Resolution at PCS 0.9	0.15 mm (6 mil)
Min. PCS Values	0.45
Depth of field	35 - 365 mm, depending on reading distance and bar code label resolution

## Identification

Supported symbologies  
Codabar - 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 - MSI/ Plessey - UPC-A incl. +2,+5 - UPC-E incl. +2,+5

Future extension  
Chinese Post - Codabar ABC and CX - ISBN - ISSN - Laetus - Matrix 2of5 - UK/ Plessey - Telepen - S-Code

## Functionality

Memory	<input type="checkbox"/> FlashROM: 1 MB (for O/S and program) <input type="checkbox"/> battery backed up S-RAM: 128 kB (for data) optional 512 kB
Microprocessor	16-bit
Real time clock	Quartz RTC, time and date programmable, leap year handling, (accuracy + 60 sec./month)
Trigger key	1 key for manual triggering
Programming	Functionality is provided by user application. The application may be downloaded via cradle.
Transmission speed	IrDA: 2400 - 115200 baud

## Environmental specifications

Temperature	<input type="checkbox"/> -5 - 40 °C in operation <input type="checkbox"/> -20 - 60 °C in storage
Humidity (non condensing)	<input type="checkbox"/> 20 - 80 % in operation <input type="checkbox"/> 20 - 90 % in storage
Shock: drop:	1.5 m drop onto concrete surface
Shock: vibration:	12 - 100 Hz with 1G for 180 min, cycle for X,Y,Z.
Ambient light rejection	<input type="checkbox"/> fluorescent 3.000 lux max. <input type="checkbox"/> white light 3.000 lux max. <input type="checkbox"/> direct sun 50.000 lux max.
Emission	According to EN50081, part 1
Immunity	According to EN50082, part 1
Protection against dust and moisture	According to IEC529, IP 54
Safety, Laser class	According to IEC825, Class I laserproduct

## Physical specifications

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

# SPECIFICATIONS CRD 9723 cradle

<b>Cradle models</b>	<input type="checkbox"/> CRD-9723-RS232 for communication/charging <input type="checkbox"/> CRD-9723-CHARGER for charging
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## Electrical specifications

power	6 V
current	< 300 mA

## Functionality

Interfaces supported	<input type="checkbox"/> RS232 <input type="checkbox"/> RS485
Transmission modes	<input type="checkbox"/> Half duplex RS232 <input type="checkbox"/> Half duplex RS485
Parity	Odd, Even, None

## Environmental specifications

Emission	According to EN50081, part 1
Immunity	According to EN50082, part 1

## Physical specifications

Dimensions (h x w x d)	exl. scanner: 65 x 72 x 97 mm incl. scanner: 122 x 72 x 97 mm (exl. cable and operation space)
Case material	ABS
Weight	< 85 g
Standard connector	RS232 DB 9

Preliminary specifications are subject to change without notice. Printed 04-2002