

# OPL 9728

Barcode data collector with keypad and IrDA interface



This model is equipped with a alpha-numeric keypad and a graphical display. It is standard equipped with integrated barcode laser scanner, memory, a real-time clock and supplied with a rechargeable battery.

## Product Features

### Keypad with cellphone look and feel

Less instructions required

### LCD display

Clear overview

### Small size and light weight

Easy to carry

### Flash ROM and RAM memory

Provides program and data storage

### IrDA interface

Optical data transmission to cradle

Cabled

**Wireless**

Stationary

OEM

**OPTICON**  
always scanning for new ID's

## Specifications

### OPL 9728 Barcode data collector with keypad and IrDA interface

#### Electrical specifications

Main battery pack: Li-Ion rechargeable 3.7 V nom. 600 mAh  
Main battery pack operating time: When making every 5 seconds 1 scan with Backlight OFF, 1 sec laserbeam on and 0.2 sec. green LED on and 0.2 sec. buzzer on, operating time is: approx. 45 hours  
Main battery condition: Different operation conditions affect the operating time  
Backup battery: Lithium rechargeable 3.5 mAh  
Backup battery operating time: > 1 week backup  
Battery management: When battery is low the data collector 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: -25 to 0°, 0 to +25°  
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)  
Min. resolution at PCS 0.9: 0.15 mm / 6 mil  
Min. PCS value: 0.45  
Depth of field: at PCS 0.9, UPC  
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

Transmission speed IrDA: baudrate: 2.4 - 115.2 kbps

#### 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 (if supported in application)

#### Functionality

Trigger mode: manual  
Memory FlashROM: 512 kB (O/S and program)  
Memory RAM: 512 kB (data storage), optional 1 MB  
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  
Programming: Functionality is provided by user application.

#### Environmental specifications

Temperature in operation: -5 to 40 °C / 23 to 104 °F  
Temperature in storage: -20 to 60 °C / -4 to 140 °F  
Humidity in operation: 20 - 80 % (non-condensing)  
Humidity in storage: 20 - 90 % (non-condensing)  
Ambient fluorescent light immunity: 3,000 lx max  
Ambient white light immunity: 3,000 lx max  
Ambient direct sun light immunity: 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

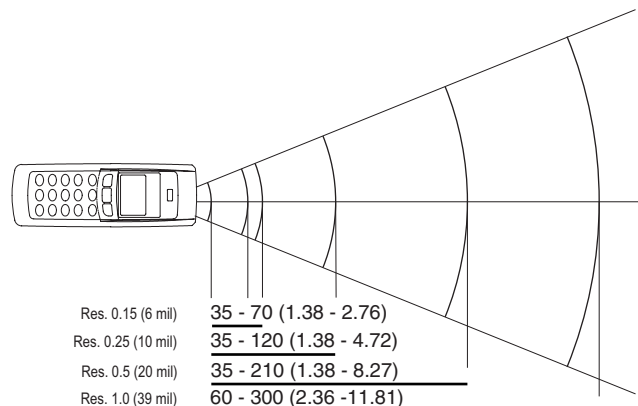
Dimensions: 129 x 44 x 23 mm / 5.08 x 1.73 x 0.91 in  
Case material: ABS  
Weight body: ca. 105 g / 3.7 oz

#### Regulatory

Laser safety class: JIS-C-6802 Class 1, IEC 60825-1  
Product compliance: CE, FCC, VCCI, RoHS

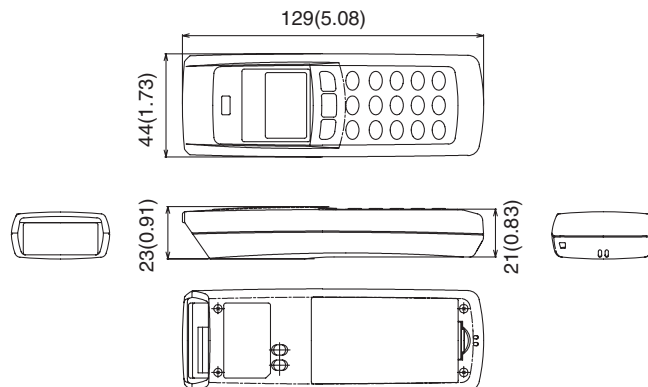
#### Depth of field

Unit: mm (in)



#### Dimensions

unit: mm (in)



#### Enclosed items

Backup battery, Handstrap

#### Accessories

Sold separately

CRD 9722: Single charging cradle  
CRD 9723 RU: Single serial communication cradle  
CRD 9723 RU1: Multibay cradle, 1x communication, 5x charging  
CRD 9723 RU5: Multibay cradle, 5x communication, 5x charging  
CRD 9726: Modem cradle  
CRD 9727: GSM cradle