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# **Data Collection** Beyond Versatile. It's Unique.



Ideal tool for:✓Postal✓(Retail) Logistics✓Access Control✓Data Reporting





Scan

Communicate



# SIMPLE DESIGN

The Opticon data collectors are all equipped with an integrated 1D or 2D scanner, on-board memory and a real-time clock to perform their core task: store barcodes with a time stamp for registration purposes. The OPL9700 series and PX25 operate on a rechargeable battery, while the DCL1500 series work with replaceable AAA batteries. The keypad and the interface(s) vary per model.



### ➡ SCANNER

Opticon integrated its industry leading scan engines. The laser engine brings a powerful 100 scans per second to read various barcode symbologies. The CMOS imager captures 2D codes at a powerful 30 frames per second to read DataMatrix, QR Code and many other codes.

+ RTC



The built-in real-time clock adds the exact time to the scanned barcodes for real-time identification.

### + DURABLE

Withstanding drops of 1.5 meter on concrete, these data collectors are reliable devices for daily use. All models are suitable for indoor applications. The OPL9700 series are sealed up to IP 54 standards and also suitable for outdoor use.





# + RANGE IN NAVIGATION AND CONTROL OPTIONS

The different models allow operation for all kinds of applications. For simple routine jobs the one button model might fit. For more control, three button models (with or without display) and keypad models (always supplied with display) are available.



# + LIGHT

The average dimension of about 4 cm width and weight around 100 grams provide a comfortable fit of all models.

# + ON-BOARD MEMORY

The on-board memory provides program and data storage on every data collector.

# ➡ SOFTWARE

With the optionally available Software Development Kit, advanced business applications can be developed in C-language.

# + BATTERY CHARGING

Several stations for single charging or multiple charging are available. The DCL1500 series runs on user-replaceable AAA batteries.



# PRODUCTS FOR DATA COLLECTION



OPL9712 OPL9714 OPL9715 OPL9723 OPL9724 OPL9725

# PRODUCTS FOR COMMUNICATION

# SERIAL SINGLE CRADLE

### C R D 9 7 2 3 R U

for OPL9700 series + PX25

- docking and charging
- serial connection via RS232 and USB



# SERIAL MULTIBAY CRADLE

C R D 9 7 2 3 R U 1

### for OPL9700 series + PX25

- 5 slots charging
- 1 slot serial connection via RS232 and USB

CRD9723RU5 for OPL9700 series + PX25

- 5 slots charging
- 5 slots serial communication via RS232 and USB
- network chain connectivity



Beyond Versatile. It's Unique.



OPL9727 OPL9728 PX25 DCL1530 DCL1531

### GSM CRADLE

**C R D 97 2 7** for OPL9700 series + PX25

- docking and charging
- GSM/GPRS network communication



USB CABLE



for DCL1500 series

- direct USB connection to USB hosts
- or other USB devices

# MODEM CRADLE

**C R D 97 2 6** for OPL9700 series + PX25

- docking and charging
- dial-up modem connection

# **C R D 1 5 3 1** for DCL1500 series

- docking and charging
- dial-up modem connection



# **ON-BOARD COMMUNICATION**

All models are equipped with an IrDA interface, allowing program loading and batch communication. For wireless communication, several models are equippped with a Bluetooth interface. The models with a GPS receiver allow the geographical location to be recorded together with the barcode data.

### BLUETOOTH

Use the widely accepted Bluetooth wireless communication protocol to connect to any mobile or stationary device with Bluetooth capacity.

### GPS

The models with integrated GPS module add position tracking to the data collection possibilities. The GPS receiver allows to record the real-world coordinates (X,Y) with the other registrations.

# **MEMORY SCANNING**

The OPTICON data collector range does also contain pocket models for memory scanning. For more details refer to the separate documentation of the OPN2000 series Pocket Memory Scanners.











### Applications

- Postal item identification
- Delivery confirmation
- Drop-off time registration
- Proof of delivery
- Optional GPS route tracking

In order to prove the accuracy of the activities within the postal industry, all outdoor activities need to be identified. With the simply designed but aggressively scanning data collection device the mobile workers can scan barcodes onroute with which they identify the place. Adding GPS enables workers to collect the geographical position on-route that will be saved with the scanned barcode of the parcel at the point of delivery. The collected data are stored on the device and can be uploaded to the central database via a dedicated docking station.

# (Retail) Logistics



- Stock management
- Storage location tracking
- Order picking
- Merchandise control
- Delivery tracking
- Optional real-time server connection
- Optional GPS route tracking

With the barcode scanning and data collection device you can update all transactions encountered in and around the warehouse supply chain. Update the inventory status and transmit data at the end of the handled shift. Use Bluetooth for real-time server connection and belt printer options. Track & trace the truck loads on-route by logging the geographical location. Feeding the data back into the enterprise management system provides all updated article information. Expected lead times and fleet information can all be managed with the extensive data collector range.

# Access Control



- Entrance control
- Check-out
- Visitor counting
- Peak time registering
- Lead-tracking

Access control and visitor registration can be combined when using the abilities of ticket reading. Barcode reading

not only controls the ticket's validity, it enhances many control options. Collected data of visitor tickets with added

time stamp contains all information needed for end-of-day visitor management reports. The Bluetooth model provides

real-time connnectivity to nearby stations that are linked to central server data to monitor visitor data during the event.

The use of the data collector reduces labor expense and

provides correct traceable input.

Optional real-time tracking



### **Applications**

- Tracing task performances
- Inspection logging
- Report management
- Electronic ordering
- Attendance management
- Serial number registration
- Spare parts inventory

Registering performed tasks and inspection checks provide understanding in the work flow, from the production floor or financial department to healthcare tasks or field service operations. Barcode scanning solutions are quick registration solutions with remarkable labor reduction. Connectivity to any enterprise administration software is available, Bluetooth communication belongs also to the options. The scanner combines article identification with an accurate time stamp.

# + Basic Product Specifications

#### Operation

- CPU:
- DCL1500, OPL9700: 16-bit PX25: 32-bit
- Software: Programmable in C-language PX25: Software development kit with WinARM compiler free downloadable DCL1500, OPL9700: Ansi-C Cross compiler obtainable. Software development kit free downloadable
- RTC: Supports year, month, day, hour, minute, second (leap year supported)

### Memory

- · FlashROM: PX25: 4MB OPL9714, OPL9715: 1 MB Other models: 512 kB
- RAM<sup>•</sup> PX25: 2 MB SRAM OPL9728:1 MB OPL9724, OPL9725, OPL9727: 128 kB Other models: 512 kB

### Display

- PX25, DCL1530, DCL1531, OPL9712, OPL9714, OPL9715, OPL9723. OPL9724. OPL9728
- Type: OPL9723, OPL9724: Graphic LCD Other models: Graphic LCD with backlight
- Size: 12 x 64 pixels
- Mode: Landscape / 180° rotation
- Font size: 6x6 / 6x12 / 8x8 / 8x16 dots

### **Operating indicators**

- Visual: 1 LED (red/green/orange)
- Non-visual: Buzzer

### **Operating keys**

• Depending on model: 1 key / 3 keys / keypad 18 keys

### Communication

- USB: DCL1500: Mini USB, Ver. 1.1, VCP, USB-A connector
- IrDA: Ver. 1.2 PX25, DCL1500: Baudrate 9600 bps - 115.2 kbps OPL9700: Baudrate 2400 bps - 115.2 kbps
- Bluetooth: range up to 10 m, 1 to 1 connection, master/slave mode, authentication and encryption PX25: Ver. 1.2, HID, SPP OPL9712, OPL9724: Ver. 2.0, SPP, DUN • GPS: OPL9714, OPL9715:
- NMEA 0183, SiRF Star III, 4.8 kbps

### Power

 Rechargeable battery: Lithium-Ion 0PL9714, 0PL9715: 3.7V 1000mAh Other OPL9700: 3.7V 600mAh PX25: 3.7V 1880mAh

#### **Power (continued)**

- Dry cell battery: DCL1500: 2 x AAA, 1200mAh
- Backup battery: Rechargeable battery OPL9714. OPL9715: Manganese silicon lithium 3mAh Other OPL9700, DCL1500 series: Lithium 3.5mAh PX25: Manganese silicon lithium battery 3.4mAh
- Operating time: Consult individual datasheets • Data retention time: Ca. 72 hours
- · Charging method: DCL1500: Enclosed USB cable, separate cradle CRD1531 OPL9700: Separate cradle CRD9720 series PX25: Separate cradle CRD9722/CRD9723RU, separate power supply

### **Barcode scanner Optics**

DCL1500, OPL9700:

- · Light source: 650 nm visible laser diode
- Scan method: Vibrating mirror
- Scan rate: 100 scans/sec
- 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, Code 39 35 - 300 mm / 1.38 - 11.81 in

### 2D Imager Optics

- PX25:
- · Light source: Illumination 4 red LEDs 630 nm, aiming 2 green LEDs 527 nm
- Scan method: CMOS area sensor, SXGA (1.3 million pixels), gray scale
- Scan rate: Up to 30 fps
- Trigger mode: Manual, multiple read
- Reading pitch angle: -50 to 0°, 0 to +50°
- Reading skew angle: -60 to 0°, 0 to +60°
- Reading tilt angle: 360°
- Focal plane: 85 mm / 3.35 in from window
- Curvature: R>15 (EAN8), R>20 (EAN13)
- Min. resolution at PCS 0.9: 0.1 mm / 4 mil
- Min. PCS value: 0.45
- Field of view: Horizontal 47°, Vertical 37.5°
- Depth of field: At PDF417 and Code 39 35 - 140 mm / 1.38 - 5.51 in

### Supported Symbologies

- Barcode (1D):
- All models: JAN/UPC/EAN incl. add on. Codabar/ NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISSN, Matrix 2of5, MSI/ Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey Extra PX25: ISMN
- Postal code: All models: Chinese Post, Korean Postal Authority code Extra PX25: Intelligent Mail Barcode, Postal JPN, POSTNET
- · 2D code: All models: Composite Codes, MicroPDF417, **PDF417**
- Extra PX25: Aztec Code, Aztec Runes, Codablock F, Data Matrix, (ECC200/EC0-140), Maxi Code (mode 2~5), Micro QR Code, QR code

### **Durability**

· Consult individual datasheets

### **Physical**

- Dimensions (w x h x d): Consult individual datasheets
- · Weight body: Depending on model (incl. battery), min. 85 g / 3 oz , max. ca. 130 g / 4.6 oz
- Case: PX25, OPL9714, OPL9715: ABS, Black Other models: ABS, Lilacgrey

### **Regulatory & Safety**

• Product compliance: All models: CE, FCC, VCCI, RoHS, PX25: EN 300-328, ETS 301-489 OPL9700, DCL1500: JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

#### **Enclosed items**

- Rechargeable battery: PX25, OPL9700
- Dry cell battery 2 x AAA batteries: DCL1500
- Hand strap

### Sold separately

- · Cradles: Consult inside information or the individual datasheets
- Nylon case: DCL1500, OPL9700: With swivel clip, with swivel clip & window, with fixed clip
- Power supply: PX25: 100-240V/0.5A, 50/60 Hz, 6V/2A (for battery charging)

Models	Functionality	Communication	Battery	Scanner
DCL1530	3-key + Display	IrDA, USB	Dry cell	Barcode
• DCL1531	Keypad + Display	IrDA, USB	Dry cell	Barcode
• OPL9712	Keypad + Display	IrDA, Bluetooth	Rechargeable	Barcode
• OPL9714	3-key + Display	IrDA, GPS	Rechargeable	Barcode
• OPL9715	Keypad + Display	IrDA, GPS	Rechargeable	Barcode
• OPL9723	3-key + Display	IrDA	Rechargeable	Barcode
• OPL9724	3-key + Display	IrDA, Bluetooth	Rechargeable	Barcode
• OPL9725	1-key	IrDA	Rechargeable	Barcode
• OPL9727	3-key	IrDA	Rechargeable	Barcode
• OPL9728	Keypad + Display	IrDA	Rechargeable	Barcode
• PX25	Keypad + Display	IrDA, Bluetooth	Rechargeable	2D

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