

# PX-36

## 2D CMOS Imager

The Opticon PX-36 is a reliable, durable and affordable mobile terminal that features an ergonomic design and a high speed, integrated 2D Imager barcode scanner that quickly and accurately scans a wide variety of 1D and 2D barcodes. It comes with a free Opticon SDK to create customized scanning solutions.



## Highlights

- Ideal solution for asset management, inventory control and mobile sales automation
- Integrated 2D CMOS Imager with fast decode speed of 60 fps
- Rapidly scans and decodes a wide variety of 1D or 2D barcodes
- Wireless Bluetooth 4.0 (HID or SPP) transmission of data to a host
- Data can also be transferred via USB and RS232 through the various communication/charging cradles that are sold separately
- 18-key keypad and monochrome 112x64 pixel LCD screen with backlight
- Memory: 512KB of flashROM and 1MB of SRAM
- Compact size and weight: 44 x 140 x 25 mm (W x H x D), 115 grams
- Rechargeable Lithium-Ion, 1880 mAh battery sold separately
- Rugged: IP42 rating against dust and moisture, survives 1.5 m drops to concrete
- Programmable-free Opticon SDK enables solution providers to create customized scanning solutions
- Two year warranty

# PX-36

## Product Specifications



### Operation

**CPU:** 32-bit, 96 MHz

**O/S:** Proprietary

**Software:** Programmable in C-language. Software development kit including Ansi-C Cross compiler available for free.

**RTC:** Supports year, month, day, hour, minute, second (leap year supported)

### Memory

**Flashrom:** 512 KB

**RAM:** 1 MB

**Storage:** 1 MB

### Display

**Type:** Graphic monochrome LCD with backlight

**Size:** 112 x 64 pixels

### Operating indicators

**Visual:** 1 LED (red/green/blue)

**Non-visual:** Buzzer

### Operating keys

**Entry options:** 18 key total, 12 key (alpha)numeric keypad, 2 function keys, 3 control keys, 1 scan key

### Communication

**IrDA:** Ver 1.2 physical layer, baudrate 2400 bps - 115.2 kbps

**Bluetooth:** Ver. 2.1, class 2, SPP and HID

### Power

**Rechargeable battery:** Lithium-Ion 3.7V 1800 mAh

**Backup battery:** Rechargeable manganese silicon Lithium 3V 3 mAh

**Operating time:** Ca. 10 hours (1 scan / 5 sec active bluetooth)

**Recharging time:** Ca. 7 hours

**Date retention time:** Ca. 72 hours

**Charging method:** Separate cradle CRD-972x series

### 2D Imager Optics

**Light source:** Green aiming LED, 2 illumination red LEDs

**Scan method:** CMOS area sensor, 752 x 480 pixels

**Scan rate:** up to 60 fps

**Reading pitch angle:**  $\pm 50^\circ$

**Reading skew angle:**  $\pm 50^\circ$

**Reading tilt angle:**  $360^\circ$

**Curvature:**  $R \geq 16$  mm (10 digit Codabar NW-7),  $R \geq 20$  mm (12 digit UPC)

**Min. pcs value:** 0.2

**Motion tolerance:** 2 m/s

**Depth of field at code 39:**

65 - 105 mm (0.127 mm) / 2.56 - 4.13 in (5 mil),

45 - 185 mm (0.25 mm) / 1.77 - 7.28 in (10 mil),

50 - 250 mm (0.5 mm) / 1.97 - 9.84 in (20 mil)

### Supported symbologies

**Barcode (1D):** 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

**Postal Code:** Chinese Post, Korean Postal Authority code

**2D Code:** Composite Codes, MicroPDF417, PDF417, Datamatrix, Cadablock D, QR Code, MicroQR Code, MaxiCode, Aztec Code, Chinese-sensible code, Netherlands KIX, UK Postal, Australian Postal

### Durability

**Temperature in operation:** 0 to 50 °C / 32 to 122 °F

**Temperature in storage:** -20 to 60 °C / -4 to 140 °F

**Humidity in operation:** 20 - 85% (non-condensing)

**Humidity in storage:** 20 - 85% (non-condensing)

**Ambient light immunity:** Fluorescent 10,000 lx max, direct sun 100,000 lx max, incandescent 10,000 lx max

**Drop test:** 1.5 m / 5 ft drop onto concrete surface

**Protection rate:** IP42

### Physical

**Dimensions (WxHxD):** 44 x 140 x 25 mm / 1.73 x 5.51 x 0.98 in

**Weight body:** Ca. 115 g / 4.1 oz (excl. battery)

**Case:** ABS, Black

### Regulatory & Safety

**Product compliance:** CE, FCC, RoHS, IEC62471

### Items

**Enclosed:** Wrist strap

**Sold separately:** Rechargeable battery, CRD-9723RU cradle (serial communication, charging), power supply for cradle