

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
- 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°

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, standard battery

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