

# OPI4002

2D CMOS imager

IEEE 802.15.4

Wireless Dongle

### + Related products

#### PX25

- Data Collector
- 2D CMOS imager
- IrDA, Bluetooth
- Equipped with powerjack

#### OPI2201

- Cabled device
- 2D CMOS imager with auto-focus
- RS232, Keyboard Wedge, USB

#### OPI2002

- Cabled device
- 2D CMOS imager
- RS232, Keyboard Wedge, USB



## Operating indicators

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

## Operating keys

- Entry options:  
1 scan key

## Communication

- IEEE 802.15.4: range up to 30 m, 1 to 1 connection (OPI4002 scanner to USB(HID) dongle)

## Power

- Rechargeable battery: Lithium-Ion 3.6V 1150mAh
- Operating time: Ca. 30 hours (1 scan / 5 sec)
- Charging method: Separate cradle CHG4001, separate power supply
- Battery charging time: Ca. 3 hours (full charge)

## 2D Imager Optics

- 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, auto-trigger, stand detection
- Image format: Windows Bitmap, JPEG, TIFF
- Gradulation: 256, 16, 2
- Image output mode: 4 resolutions (full, 1/2, 1/3, 1/4), 2 ranges (horizontal, vertical)
- 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 mm (EAN8), R>20 mm (EAN13)
- Min. resolution at PCS 0.9: 0.1 mm / 4 mil for Code 39, 0.127 mm / 5 mil for PDF417
- Min. PCS value: 0.45
- Field of view: Horizontal 47°, Vertical 37.5°
- Depth of field: at \*PDF417\* and Code 39  
\*25 - 130 mm / 0.98 - 5.12 in (res 0.399 mm / 13 mil)\*,  
\*48 - 80 mm / 1.89 - 3.15 in (res 0.127 / 5 mil)\*,  
30 - 105 mm / 1.18 - 4.13 in (0.25 / 10 mil),  
55 - 75 mm / 2.17 - 2.95 in (0.1 / 4 mil)

## Supported Symbologies

- Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISSN-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- Postal code: Chinese Post, Korean Postal Authority code
- 2D code: Aztec Code, Aztec Runes, Composite codes, Data Matrix (ECC200/ECO-140), Maxi Code (mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code

## Durability

- Temperature in operation: -0 to 40 °C / -32 to 104 °F
- Temperature in storage: -20 to 60 °C / -4 to 140 °F
- Humidity in operation: 5 - 90% (non-condensing)
- Humidity in storage: 5 - 90% (non-condensing)
- Ambient light immunity: Fluorescent 10,000 lx max, Direct sun 100,000 lx max, Incandescent 10,000 lx max
- Antistatic electricity: 15 kV (non-destructive)
- Drop test: 1.5 m / 5 ft drop onto concrete surface
- Vibration test: 10 - 100 Hz with 2G for 1 hour
- Protection rate: IP 42

## Physical

- Dimensions (w x h x d):  
59 x 164 x 43 mm / 2.32 x 6.46 x 1.69 in
- Weight body: Ca. 125 g / 4.4 oz (excl. battery)
- Case: ABS, White

## Regulatory & Safety

- Product compliance: CE, FCC, VCCI, RoHS

## Sold separately

- CHG4001 Cradle: Charging
- OPA1001 Dongle: IEEE 802.15.4 communication
- Power supply 100-240V/0.5A, 50/60 Hz, 6V/2A (for battery charging)

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