

# OPI2002

2D CMOS imager

RS232

Keyboard Wedge

 USB



### + Related products

#### OPI2201

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



#### OPI4002

- Wireless device
- 2D CMOS imager
- IEEE 802.15.4
- Equipped with powerjack



#### OPR3001

- Cabled device
- Barcode laser scanner
- RS232, Keyboard Wedge, USB



## Operating indicators

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

## Operating keys

- Entry options:  
1 scan key

## Communication

- RS232: DB9 PTF connector with external power supply
- Keyboard Wedge: DIN5 F/M connector, MiniDIN6 F/M connector with external power supply
- USB: Ver. 1.1, HID/VCP, USB-A connector

## Power

- Voltage requirement: 6V  $\pm$  5%
- Current consumption: 340mA (typical use)

## 2D Imager Optics

- Light source: 10 red LEDs 630 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: -60 to 0°, 0 to +60°
- Reading skew angle: -65 to 0°, 0 to +65°
- Reading tilt angle: 360°
- Focal plane: 110 mm / 4.33 in from window
- Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil
- Min. PCS value: 0.45
- Field of view: Horizontal 47°, Vertical 37.5°
- Depth of field: At \*PDF417\* and Code 39  
\*40 - 195 mm / 1.57 - 7.68 in (0.339 mm / 13 mil)\*,  
\*85 - 125 mm / 3.35 - 4.92 in (0.127 mm / 5 mil)\*,  
35 - 230 mm / 1.38 - 9.06 in (0.5 mm / 20 mil),  
55 - 160 mm / 2.17 - 6.30 in (0.25 mm / 10 mil),  
85 - 125 mm / 3.35 - 4.92 in (0.127 mm / 5 mil)

## Supported Symbolologies

- 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: -20 to 50 °C / -4 to 122 °F
- Temperature in storage: -25 to 70 °C / -13 to 158 °F
- Humidity in operation: 5 - 95% (non-condensing)
- Humidity in storage: 5 - 95% (non-condensing)
- Ambient light immunity: Fluorescent 10,000 lx max, Direct sun 100,000 lx max, Incandescent 10,000 lx max
- Antistatic electricity: 15kV (non-destructive)
- Drop test: 1.8 m / 6 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):  
55 x 149 x 129 mm / 2.17 x 5.87 x 5.04 in
- Weight body: Ca. 135 g / 4.8 oz (excl. cable)
- Case: ABS, Black

## Regulatory & Safety

- Product compliance: CE, FCC, VCCI, RoHS

## Enclosed items

- Power supply 100-240V/0.5A, 50/60 Hz, 6V/2A (for Keyboard Wedge, RS232)

## Sold separately

- Stand

## Models

- Interface versions: RS232, Keyboard Wedge, USB

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- **The Netherlands:** Hoofddorp  
- **France:** Issy Les Moulineaux  
- **Germany:** Dietzenbach  
- **Italy:** Castel Maggiore (BO)  
- **Spain:** Valencia  
- **Sweden:** Järfälla  
- **United Kingdom:** Luton, Bedfordshire  
- **U.S.A.:** Renton, WA  
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- **Taiwan:** Taipei  
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