

# OPI3201

2D CMOS imager with auto-focus

RS232

Keyboard Wedge

 USB



### + Related products



#### OPI2201

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



#### OPI3301

- Wireless device
- 2D CMOS imager with auto-focus
- Bluetooth



#### OPR3201

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

## Operating indicators

- Visual: 1 LED / large 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: MiniDIN6 F/M connector
- USB: Ver. 1.1, HID/VCP, USB-A connector

## Power

- Voltage requirement: 6V  $\pm$  5% (Keyboard Wedge), 6V (min. 4.5, max. 6.5V) (RS232)
- Current consumption: Max. 350 mA (typical use), max. 85mA (standby)

## 2D Imager Optics

- Light source: Aiming laser diode, illumination LEDs
- Scan method: CMOS area sensor, SXGA (1.3 million pixels), gray scale
- Scan rate: Up to 80 fps (excl. focusing)
- 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: -40 to 0°, 0 to +40°
- Reading skew angle: -50 to 0°, 0 to +50°
- Reading tilt angle: 360°
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil, \*0.169 mm / 7 mil\*, at Code39 / QR Code and \*Data Matrix\*
- Min. PCS value: 0.45/0.3
- Field of view: Horizontal 40°, Vertical 23°
- Depth of field: at Code 39  
15 - 55 mm / 0.59 - 2.17 in (0.127 mm / 5 mil),  
15 - 200 mm / 0.59 - 7.87 in (0.254 mm / 10 mil),  
90 - 870 mm / 3.54 - 34.25 in (1.0 mm / 39 mil)
- Depth of field: at QR Code  
15 - 170 mm / 0.59 - 6.69 in (0.339 mm / 13 mil)

## Supported Symbolologies

- 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-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- Postal code: Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET

- 2D code: Aztec Code, Aztec Runes, Chinese Sensible code, Codablock F, Composite codes, Data Matrix (ECC200/ECO-140), Maxi Code (mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code

## Durability

- Temperature in operation: -5 to 50°C / 23 to 122°F
- Temperature in storage: -20 to 60°C / -4 to 140°F
- Humidity in operation: 5 - 85% (non-condensing)
- Humidity in storage: 5 - 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
- Vibration test: 10 - 100 Hz with 2G for 1 hour
- Protection rate: IP 42

## Physical

- Dimensions (w x h x d):  
56 x 137 x 112 mm / 2.20 x 5.39 x 4.41 in
- Weight body: Ca. 80 g / 2.8 oz (excl. cable)
- Case: ABS, black or white

## Regulatory & Safety

- Product compliance: CE, FCC, VCCI, RoHS, IEC 62471-1, IEC 60825-1 Class 1, IEC 60950-1

## Enclosed items

- Power supply 90-265V/0.5A, 6V/2A (for RS232 and Keyboard Wedge)
- Stand

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- **The Netherlands:** Hoofddorp  
- **France:** Issy Les Moulineaux  
- **Germany:** Dietzenbach  
- **Italy:** Villanova di Castenaso (BO)  
- **Sweden:** Järfälla  
- **United Kingdom:** Luton, Bedfordshire  
- **U.S.A.:** Renton, WA  
- **Brazil:** São Paulo

- **Japan:** Warabi City  
- **Taiwan:** Taipei  
- **P.R.China:** Shanghai  
- **Australia:** West Ryde

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