OPTICON

# Stationary Scanners

# M5

## 2D CMOS imager

**RS232**

**Keyboard Wedge**

**USB**

+ Related products

**OPM2000**
- Stationary device
- Omnidirectional laser scanner
- RS232, Keyboard Wedge, USB (HID)
- ABS

**NLV2101**
- Stationary device
- 2D CMOS imager
- RS232, USB (HID/VCP)
- IP 67, Metal

**OPI2201**
- Cabled device
- 2D CMOS imager with auto-focus
- RS232, Keyboard Wedge, USB

# + Basic Product Specifications



### Operating indicators
- Visual: 2 LEDs (green/blue/orange)
- Non-visual: Buzzer

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

### Power
- Voltage requirement: 5V ± 10%

### 2D Imager Optics
- Light source: Illumination omni-scanning mode 625 nm, illumination mobile mode 633 nm, illumination aiming 525 nm, illumination autotrigger 850 nm
- Scan method: CMOS area sensor, 752x480 pixels, gray scale
- Scan rate: Up to 50 fps
- Trigger mode: Manual, multiple read, auto-trigger
- Reading mode: Omni-scanning, mobile
- 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)
- Trigger mode: Manual trigger (incl. aiming), auto-trigger
- Reading pitch angle: -55 to 0°, 0 to +55°
- Reading skew angle: -50 to 0°, 0 to +50°
- Reading tilt angle: 360°
- Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil at Code 39 and PDF 417, 0.212 mm / 8 mil at Data Matrix
- Min. PCS value: 0.45
- Field of view: Horizontal 46°, vertical 30°
- Depth of field: At *PDF417* and Code 39 or **mobile code**
  *0 - 145 mm / 0 - 5.71 in (res. 0.254 mm / 10 mil)*,
  *15 - 45 mm / 0.59 - 1.77 in (res. 0.127 mm / 5 mil)*,
  0 - 155 mm / 0 - 6.10 in (res. 0.33 mm / 13 mil),
  0 - 140 mm / 0 - 5.51 in (res. 0.26 mm / 10 mil),
  20 - 45 mm / 0.79 - 1.77 in (res. 0.127 mm / 5 mil),
  **0 - 40 mm / 0 - 1.57 in (320x240 pixels)**

### 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-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey, USPS
- Postal code: Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, Postal JPN, POSTNET
- 2D code: Aztec Code, Aztec Runes, Composite codes, Codablock F, Data Matrix, (ECC200/ECC-140), Maxi Code (mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code

### Durability
- Temperature in operation: 0 to 40 ºC / 32 to 104 ºF
- Temperature in storage: -40 to 70 ºC / -4 to 140 ºF
- Humidity in operation: 5 - 95% (non-condensing)
- Humidity in storage: 5 - 95% (non-condensing)
- Ambient light immunity: Fluorescent 10,000 lx max, Direct sun 50,000 lx max, Incandescent 10,000 lx max
- Antistatic electricity: 15kV (non-destructive)
- Drop test: 1.5 m / 5 ft drop onto concrete surface
- Vibration test: 10 - 100 Hz with 2G for 3 hours
- Protection rate: IP 52

### Physical
- Dimensions (w x h x d):
  90 x 139 x 96 mm / 3.54 x 5.47 x 3.78 in
- Weight body: Ca. 295 g / 10.4 oz (excl. cable)
- Case: ABS, Black or White

### Regulatory & Safety
- Product compliance: CE, FCC, VCCI, RoHS

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

### Models
- Interface versions: RS232, Keyboard Wedge, USB
- Color versions: Black, White

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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
- **Japan:** Warabi City
- **Taiwan:** Taipei
- **P.R.China:** Shanghai
- **Australia:** Kariong
- **Brazil:** São Paulo

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