

# M6

## Omnidirectional Presentation Scanner - 2D CMOS Imager

USB (HID)

USB (VCP/COM)

RS232



### + Features & Benefits

- 2D CMOS imager – scans to 50 frames per second
- Easily reads 1D and 2D barcodes – even on mobile phone screens
- Compact size and weight – 3.31"W x 3.86"L x 2.01"D and 6.7 ounces
- Survives 5 foot drop onto concrete
- Rugged IP67 rating – sealed against dust and moisture.
- Triggered modes: manual, multiple read, auto-trigger
- Communication interfaces: RS232 or USB
- Two-year warranty protects your investment

## Operating indicators

- **Visual:** 2 LEDs (green/blue/orange)
- **Audible:** Beeper

## Communication

- **RS232:** on request
- **USB:** Ver. 1.1, HID/VCP, USB-A connector

## Power

- **Voltage requirement:** 5V ± 10%
- **Current consumption:** Max. 420mA

## 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), autotrigger
- **Reading pitch angle:** -55 to 0°, 0 to +55°
- **Reading skew angle:** -50 to 0°, 0 to +50°
- **Reading tilt angle:** 360°
- **Curvature:**
  - **EAN-8:** R ≥ 15 mm
  - **EAN-13:** R ≥ 20 mm (EAN13)
- **Min. resolution at PCS 0.9:**
  - Code 39: 5 mils (0.127 mm)
  - PDF417: 8 mils (0.212 mm)
- **Min. PCS value:** 0.45
- **Field of view:** Horizontal 46°, vertical 30°
- **Depth of field:** At \*PDF417\* and Code 39 or \*\*mobile code\*\*
  - Code 39
    - **5 mils (0.127 mm):** 0.79 - 1.77 in (20 - 45 mm)
    - **10 mils (0.26 mm):** 0 - 5.51 in (0 - 140 mm)
    - **13 mils (0.33mm):** 0 - 6.10 in (0 - 155 mm)
  - PDF417
    - **5 mils (0.127 mm):** 0.59 - 1.77 in (15 - 45 mm)
    - **10 mils (0.26 mm):** 0 - 5.71 in (0 - 145 mm)
  - Mobile Code
    - **320 x 240 pixels:** 0 - 1.57 in (0 - 40 mm)

## 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, 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/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:** -40 to 70 °C / -4 to 140 °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 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
- **Protection rate:** IP 67

## Physical

- **Dimensions (w x h x d):** 3.31 x 3.86 x 2.01 in (84 x 98 x 51 mm)
- **Weight:** Ca. 190 g / 6.7 oz (excl. cable)
- **Case:** ABS, Black

## Regulatory & Safety

- **Product compliance:** CE, FCC, VCCI, RoHS

© Copyright Opticon. All rights reserved. This information is subject to change without prior notice. For availability, contact your local representative.

- **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

**Opticon, Inc.**  
2220 Lind Avenue SW Suite 100  
Renton, WA 98057

**Toll Free:** (800) 636-0090  
**Local:** (425) 651-2120  
**Fax:** (425) 454-0865  
**Email:** Sales@OpticonUSA.com  
**Email:** Support@OpticonUSA.com

**OPTICON USA**

[www.OpticonUSA.com](http://www.OpticonUSA.com)