

# OPTICON

## Presentation Scanner

# M-10

## Omnidirectional Presentation Scanner - 2D CMOS Imager

USB (HID/COM)

RS232



### + Features and Benefits

- High speed 2D CMOS imager – omnidirectionally scans up to 60 frames per second
- Rapidly scans and decodes 1D and 2D barcodes – even on mobile phone LCD screens
- Stylish, space-saving design that easily fits any desk, workspace or retail counter
- Scanner can be used as a handheld scanner by using a trigger switch at the head of scanner
- New data editing program function captures up to 16 codes on multiple images simultaneously
- Output editing process, such as GS1 format, can also be easily set
- Compact size and weight: 2.99"W x 5.47"L x 2.76"D and 8.82 ounces
- Durable - survives 5 foot drop onto concrete and IP52 rating against dust and moisture
- Trigger modes: manual and auto-trigger
- Communication interfaces: RS232 or USB
- Two year warranty

## Operating Indicators

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

## Communication

- **RS232:** DB9 PTF connector with external power supply, 300 bps~115200 bps
- **USB:** Full-speed 12Mbps (HID/COM)
- **Voltage requirement:** 5.7~6.3V

## 2D Imager Optics

- **Light Source:** 2 Red LEDs Aiming and auto trigger activation light source – 1 green LED
- **Scan Method:** WVGA CMOS are sensor 752x480 pixels
- **Scan Rate:** Up to 60 fps Image format: Windows Bitmap, JPEG Reading pitch angle: ca 50°
- **Reading Skew Angle:** ca 50°
- **Reading Tilt Angle:** ca 180°
- **Min Resolution – PDF:** 0.169 mm
- **QR Code:** 0.212 mm
- **DataMatrix:** 0.212 mm
- **Field of View:** Horizontal 40.6°, vertical 26.4°
- **Depth of Field:** PDD417 Res. 0.169 15-70, Res. 0.254 0-120, QR code Res. 0.212 35-55 Res. 0.381 0-125 Datamatrix Res.0.254 20-85

## 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
- **Barcode (2D):** 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
- **Barcode (Postal Codes):** Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, Postal JPN, POSTNET

## Durability

- **Temperature:**  
Operation: 23 to 113 °F (-5 to 45 °C)  
Storage: -4 to 140 °F (-20 to 60 °C)
- **Humidity:**  
Operation: 20 - 85% (noncondensing)  
Storage: 20 - 90% (non-condensing)
- **Ambient Light Immunity:**  
Fluorescent: ~ 10,000 lx or less  
Sunlight: ~ 100.000 lx or less
- **Antistatic Electricity:** 15kV (non-destructive)
- **Drop Test:** 5 ft (1.5 m) onto concrete surface
- **Vibration Test:** 10 - 100 Hz with 2G for 3 hours
- **Protection Rate:** IP 52

## Physical

- **Dimensions (WxHxD):** 2.99 x 5.47 x 2.76 in (76 x 70 x 139 mm)
- **Weight (Body):** Ca. 8.82 oz (250 g)

## Regulatory and Safety

- **Product Compliance:** CE, IEC62471-1, VCCI, EN55022, FCC Class-B

## Models

- **Interface Versions:** USB
- **Color Versions:** Black