

# M-11

## 2D CMOS Imager

The M-11 can be used as a standalone scanner in customer-facing areas or integrated into a kiosk, medical instrument, ticketing machine or other third party devices that require hands-free, ultra-fast, 1D or 2D barcode scanning performance. Also, its smart design fits any desk, workspace or countertop.



## Highlights

- High speed 2D CMOS imager — omnidirectionally scans up to 120 fps
- Rapidly scans and decodes 1D and 2D barcodes including off of mobile device screens
- Incorporates Opticon scan engine for improved scanning of low quality barcodes and providing exceptional motion tolerance for moving applications
- Smart design fits any desk, workspace or countertop
- Can easily be embedded into a fixed mount scanning solution
- Trigger modes: manual and auto-trigger
- Data editing program function captures up to 16 codes on multiple images simultaneously
- Ideal size for scanning different forms of identification
- Compact form factor: 84.4 x 48 x 124.4 mm (W x H x D) and 220 grams
- IP42 rating against dust and moisture, survives multiple 1.5 meter drops onto concrete
- Flexible cable outlet: 4 directions
- Communication interfaces: USB (HID, COM), RS232
- Two year warranty



### Operating indicators

**Visual:** 2 LEDs (red, green, blue)

**Non-visual:** built-in speaker, tone adjustable

### Communication

**USB:** Full-speed 12Mbps (HID/COM)

**RS232:** D-Sub 9 pin connector with external power supply, 300 bps ~115200 bps

### Power

**Voltage requirement:** 4.5 - 5.5V (USB), 5V ±5% (RS232)

### 2D Imager optics

**Light source:** 2 warm white aiming LEDs

**Scan method:** monochrome CMOS area sensor, 1280 x 800 pixels

**Scan rate:** Up to 120 fps

**Reading pitch angle:** ± 60°

**Reading skew angle:** ± 70°

**Reading tilt angle:** 360°

**Min. resolution at pcs 0.9:** 0.1 mm / 4 mil (Code 39)

**Min. pcs value:** 0.3

**Depth of field at code 39:**

35 - 88 mm (0.127 mm) / 1.38 - 3.46 in (5 mil)

**Depth of field at UPC/EAN:**

0 - 198 mm (0.26 mm) / 0 - 7.8 in (10.2 mil)

0 - 234 mm (0.33 mm) / 0 - 9.2 in (13 mil)

**Depth of field at QR code:**

0 - 142 mm (0.381 mm) / 0 - 5.59 in (15 mil)

**Depth of field at Datamatrix:**

28 - 99 mm (0.254 mm) / 1.1 - 3.9 in (10 mil)

**Motion tolerance:** UPC 0.33 mm, 2.54 m/s

### 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-ISMN-ISSN, Matrix 2of5, MSI/ Plessey, UK/Plessey, S-Code, Telepen, Tri-Optic, USPS

**Postal code:** Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, Dutch KIX code, UK Postal, Postal JPN, POSTNET, PLANET

**2D code:** Aztec Code, Aztec Runes, Composite codes, Codablock F, Data Matrix (ECC200), Maxi Code, MicroPDF417, Micro QR Code, Passport MRZ (OCR-B), PDF417, QR Code

### Durability

**Temperature in operation:** -5 to 45 °C / 23 to 113 °F

**Temperature in storage:** -30 to 60 °C / -22 to 140 °F

**Humidity in operation:** 10 - 90% (non-condensing)

**Humidity in storage:** 10 - 90% (non-condensing)

**Ambient light immunity:** Fluorescent 10,000 lx max, Sunlight 100,000 lx max

**Drop test:** 1.5 m / 5 ft drop onto concrete surface

**Vibration test:** 10 - 100 Hz with 2G for 30 min.

**Protection rate:** IP42

### Physical

**Dimensions (WxHxD):** 84.4 x 48 x 124.4 mm / 3.32 x 1.89 x 4.9 in.

**Cable length:** 2.1 m

**Weight:** Ca. 220 g / 7.44 oz

### Regulatory & safety

**Product compliance:** CE, FCC, VCCI, IEC62471:2006, EN55032, EN55024, RoHS

### Models

**Interface options:** USB, RS232 (excl. power supply)

**Color versions:** Black