

### M-10 2D CMOS Imager

The M-10, an omnidirectional 2D CMOS imager presentation scanner, features multiple scanning capabilities including the ability to scan 1D and 2D barcodes off a LCD screen along with operating as a handheld scanner. Featuring a stylish, space-saving design that easily fits any desk, workspace or retail counter.



## Highlights

- 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
- Trigger modes: manual and auto-trigger
- Output editing process, such as GS1 format, can also be easily set
- Compact size and weight: 72 x 70 x 139 mm (W x H x D) and 250 grams
- Durable - survives 1.5 meter drop onto concrete and IP52 rating against dust and moisture
- Communication interfaces: RS232 or USB
- Two year warranty

# M-10

## Product Specifications



### Operating indicators

**Visual:** 1 LED (blue)

**Non-visual:** buzzer

### Communication

**RS232:** DB9 connector with external power supply,  
300 bps ~115200 bps

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

### Power

**Voltage requirement:** 5V  $\pm$ 10% (USB), 6V  $\pm$ 10% (RS232)

### 2D Imager Optics

**Light source:** 2 red LEDs light source - 1 green aiming LED

**Scan method:** WVGA CMOS area sensor, 752 x 480 pixels

**Scan rate:** up to 60 fps

**Image format:** Windows Bitmap, JPEG,

**Reading pitch angle:**  $\pm$  50°

**Reading skew angle:**  $\pm$  50°

**Reading tilt angle:** 360°

**Field of view:** Horizontal 40.6°, Vertical 26.4°

**Min. PCS value:** 0.3

**Min. resolution at PCS 0.9:** 0.169 mm (PDF, QR Code),  
0.212 mm (DataMatrix)

**Depth of field at code 39:**

35 - 60 mm (0.127 mm) / 1.38 - 2.36 in (5 mil)

0 - 140 mm (0.254 mm) / 0 - 5.51 in (10 mil)

**Depth of field at QR Code:**

35 - 55 mm (0.212 mm) / 1.38 - 2.17 in (8.4 mil)

0 - 120 mm (0.381 mm) / 0 - 0.472 in (15 mil)

**Depth of field at PDF417:**

25 - 70 mm (0.169 mm) / 0.98 - 2.76 in (6.7 mil)

0 - 120 mm (0.254 mm) / 0 - 4.72 in (10 mil)

### 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, Postal JPN, POSTNET

**2D code:** Aztec Code, Aztec Runes, Composite codes, Codablock F, Data Matrix (ECC200), Maxi Code (mode 2-5), MicroPDF417, Micro QR Code, Passport MRZ (OCR-B), PDF417, QR Code

### Durability

**Temperature in operation:** 0 to 40 °C / 32 to 104 °F

**Temperature in storage:** -40 to 70 °C / -40 to 158 °F

**Humidity in operation:** 25% to 90% (non-condensing)

**Humidity in storage:** 25% to 90% (non-condensing)

**Ambient light immunity:** Fluorescent 10,000 lx max,  
direct sun 100,000 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 hour

**Protection rate:** IP52

### Physical

**Dimensions (W x H x D):** 72 x 70 x 139 mm /  
2.83 x 2.76 x 5.47 in

**Weight body:** Ca. 250 g / 8.82 oz

### Regulatory & safety

**Product compliance:** CE, FCC, VCCI, IEC62471-1,  
EN55022, EN55024, RoHS

### Models

**Interface options:** USB, RS232

**Color versions:** Black, White