

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