☰ OPTICON

M-10

2D CMOS Imager

This omnidirectionial scanner features multiple scanning capabilities including the ability to scan any barcodes off a mobile phone LCD screen. The M-10's swivel stand makes it easy to tilt the scanner for best scanning orientation and the scanner can also operate as a handheld scanner.

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

- 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

- Trigger modes: manual and auto-trigger

- 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 ±10% (USB), 6V ±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: ± 50^0
Reading skew angle: ± 50^0
Reading tilt angle: 360^0
Field of view: Horizontal 40.6^0, Vertical 26.4^0
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 ^{0}C / 32 to 104 ^{0}F
Temperature in storage: -40 to 70 ^{0}C / -40 to 158 ^{0}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

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