☰ OPTICON

M-11

2D CMOS Imager

This high speed, omnidirectional scanner and its shape and size make it a perfect fixed mount scanner for a variety of applications. The M-11 can be used as a standalone scanner in customer-facing areas or integrated into a kiosk for hands-free scanning.

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
- 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
- Trigger modes: manual and auto-trigger
- Flexible cable outlet: 4 directions
- Communication interfaces: USB (HID, COM), RS232
- Two year warranty

M-11
Product Specifications

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
Image format: Windows Bitmap, JPEG
Reading pitch angle: ± 60°
Reading skew angle: ± 70°
Reading tilt angle: 360°
Min. PCS value: 0.3
Min. resolution at PCS 0.9: 0.1 mm (Code 39)
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% to 90% (non-condensing)
Humidity in storage: 10% to 90% (non-condensing)
Ambient light immunity: Fluorescent 10,000 lx max, direct sun 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 (W x H x D): 84.4 x 48 x 124.4 mm / 3.32 x 1.89 x 4.9 in.
Cable length: 2.1 m
Weight body: 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

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