

MV-ID2013EM

1.3 MP Smart Code Reader



Introduction

MV-ID2013EM smart code reader can read different types of 1-dimensional and 2-dimensional codes, and its max. reading speed reaches 30 codes/sec. It adopts deep learning algorithm to process images with good robustness, and can recognize various codes.

Key Feature

- Built-in deep learning algorithm to read codes with good robustness.
- Compact design and small in size.
- Adopts multiple IO interfaces and plug-in power interface.
- Adopts LED aiming light to help aim codes.
- Adopts buzzer and indicator for indicating device status.
- Supports one-click parameter adjustment for convenient operation.

Available Model

- White light source with network interface: MV-ID2013EM-05-WBN
- White light source (polarized) with network interface: MV-ID2013EM-05-WBP
- Red light source with network interface: MV-ID2013EM-05-RBN
- Red light source (polarized) with network interface: MV-ID2013EM-05-RBP
- White light source with USB interface: MV-ID2013EM-05-WBN-U
- White light source (polarized) with USB interface: MV-ID2013EM-05-WBP-U
- Red light source with USB interface: MV-ID2013EM-05-RBN-U
- Red light source (polarized) with USB interface: MV-ID2013EM-05-RBP-U

Applicable Industry

Consumer electronics, household appliances, food and beverage, pharmaceutical, semiconductor, automobile parts, ticket checking machine, etc.



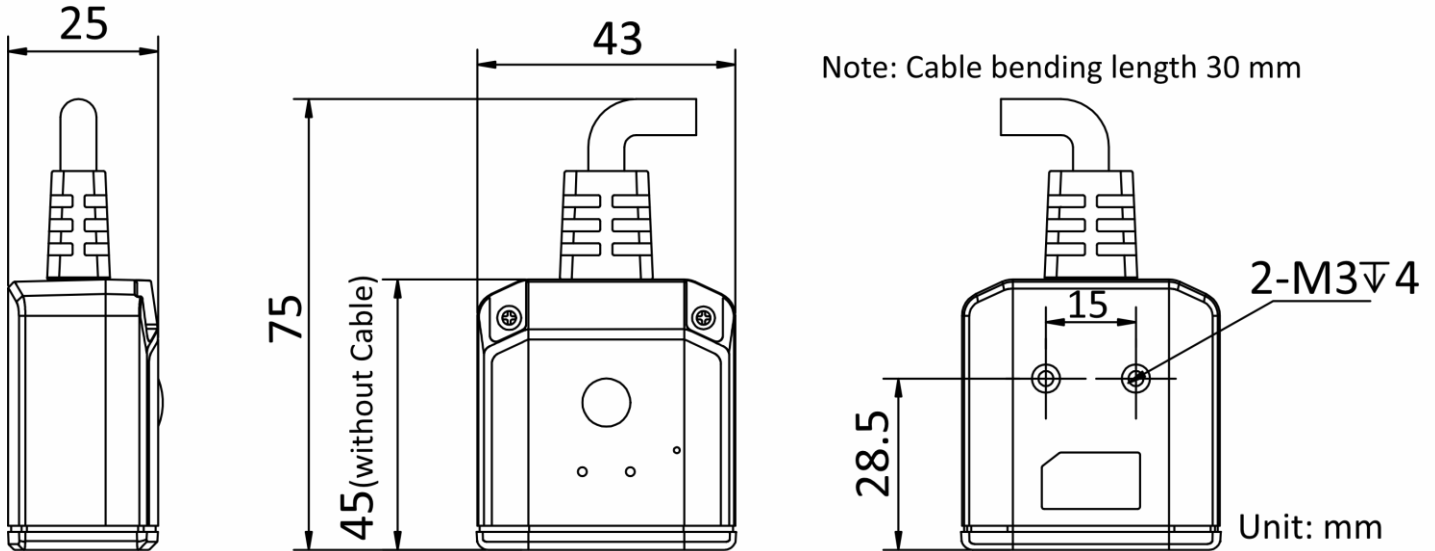
Specification

| Model | MV-ID2013EM-05-WBN(-U) | MV-ID2013EM-05-WBP(-U) | MV-ID2013EM-05-RBN(-U) | MV-ID2013EM-05-RBP(-U) |
|-------------------------------|--|------------------------|------------------------|------------------------|
| Performance | | | | |
| Symbologies | 1-dimensional codes: Code 39, Code 93, Code 128, ITF 14, ITF 25, CodaBar, EAN 8, EAN 13, UPCA, UPCE | | | |
| | 2-dimensional codes: QR Code, Data Matrix | | | |
| Max. frame rate | 50 fps | | | |
| Max. reading speed | 30 codes/sec | | | |
| Sensor type | CMOS, global shutter | | | |
| Pixel size | 2.7 μm \times 2.7 μm | | | |
| Sensor size | 1/4" | | | |
| Resolution | 1280 \times 1024 | | | |
| Exposure time | 60 μs to 6000 μs | | | |
| Gain | 1 dB to 28 dB | | | |
| Mono/color | Mono | | | |
| Communication protocol | Device with network interface: SmartSDK, TCP Client, Serial, FTP, HTTP, TCP Server, UDP | | | |
| | Device with USB interface: SmartSDK, USB (HID, CDC) | | | |
| Depth of field* | Code 39 (5 mil): 75 mm to 215 mm Code 128 (10 mil): 50 mm to 400 mm EAN 13 (13 mil): 60 mm to 420 mm Data Matrix (10 mil): 50 mm to 240 mm QR Code (15 mil): 40 mm to 290 mm | | | |
| Optics | | | | |
| Focal length | 4.7 mm (0.2") | | | |
| Working distance | 120 mm (4.7") | | | |
| Ambient illumination | 900 lux@120 mm | | | |
| Light source | White | White (polarized) | Red | Red (polarized) |
| Aiming system | Green LED | | | |
| Electrical feature | | | | |
| Data interface | Device with network interface: Fast Ethernet | | | |
| | Device with USB interface: USB2.0 | | | |
| Digital I/O | Device with network interface: DB15 connector provides power and I/O, including none-isolated input \times 2 (LineIn 0/1), none-isolated output \times 2 (LineOut 2/3), RS-232 \times 1. Device trigger via pressing trigger button supported. | | | |
| | Device with USB interface: DB15 connector provides data transmission. Device trigger via pressing trigger button supported. | | | |
| Power supply | Device with network interface: 12 VDC to 24 VDC | | | |
| | Device with USB interface: 5 VDC (USB2.0 provides power supply) | | | |
| Max. power consumption | Device with network interface: 3.5 W@12 VDC | | | |
| | Device with USB interface: 2.5 W@5 VDC (USB2.0 provides power supply) | | | |

| Mechanical | |
|---------------------------|---|
| Lens mount | M5.8-mount |
| Indicator | Power indicator (POWER), status indicator (OK/NG) |
| Dimension | 45 mm × 43 mm × 25 mm (1.8" × 1.7" × 1.0") |
| Weight | Approx. 68.5 g (0.15 lb.) |
| Ingress protection | IP54 |
| Temperature | Working temperature: 0 °C to 50 °C (32 °F to 122 °F) storage temperature: -30 °C to 70 °C (-22 °F to 158 °F) |
| Humidity | 20% to 95% RH, non-condensing |
| General | |
| Client software | IDMVS |
| Certification | CE, FCC, RoHS |

*Test condition: Environment temperature=25 °C (77 °F), ambient illumination=250 lux filament lamp, sample symbologies are used.

Dimension



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