

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

