

MV-ID2013M

1.3 MP Industrial Code Reader



RoHS



Introduction

MV-ID2013M industrial code reader can read different types of 1-dimensional and 2-dimensional codes, and its max. reading speed reaches 45 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 LED aiming light to help aim codes.
- Adopts focus knob for adjusting focusing manually.
- Adopts multiple IO interfaces and plug-in power interface.

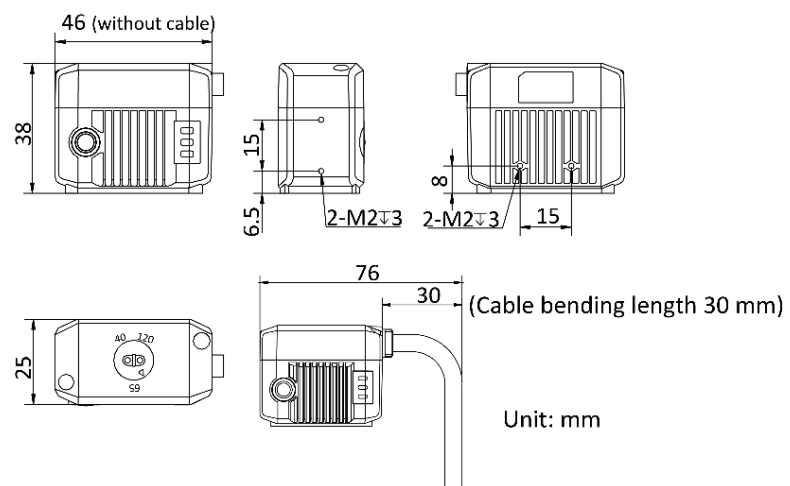
Applicable Industry

Consumer electronics, food and drug, semiconductor, new energy, etc.

Available Model

- Red light source: MV-ID2013M-06S-RBN
- Red light source with polarized lens cap: MV-ID2013M-06S-RBP
- Red light source with filter: MV-ID2013M-06S-RBN-YAG
- Red light source with filter and polarized lens cap: MV-ID2013M-06S-RBP-YAG
- Blue light source: MV-ID2013M-06S-BBN
- White light source: MV-ID2013M-06S-WBN
- White light source with polarized lens cap: MV-ID2013M-06S-WBP

Dimension

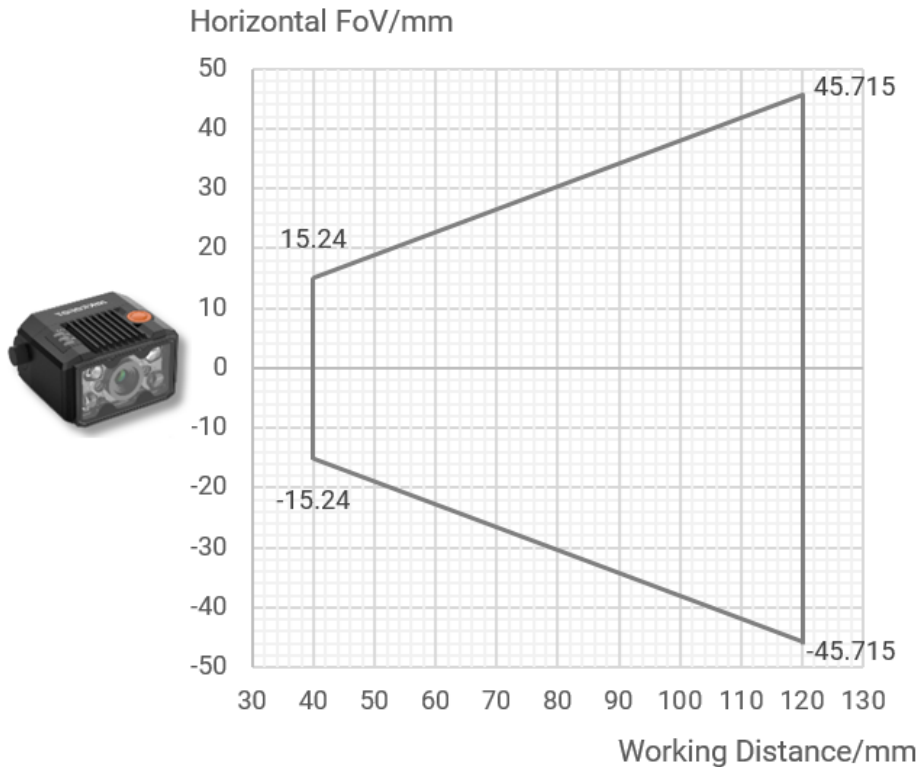


Specification

Model	MV-ID2013M-06S-RBN(-YAG)	MV-ID2013M-06S-RBP(-YAG)	MV-ID2013M-06S-BBN	MV-ID2013M-06S-WBN	MV-ID2013M-06S-WBP
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	60 fps				
Max. reading speed	45 codes/sec				
Sensor type	CMOS, global shutter				
Pixel size	4 μm × 4 μm				
Sensor size	1/2.7"				
Resolution	1280 × 1024				
Exposure time	35 μs to 1 sec				
Gain	0 dB to 15 dB				
Mono/color	Mono				
Communication protocol	SmartSDK, TCP Client, Serial, FTP, TCP Server, Profinet, MELSEC/SLMP, Ethernet/IP, ModBus, UDP, Fins				
Electrical feature					
Data interface	Fast Ethernet (100 Mbit/s)				
Digital I/O	17-pin M12 connector provides power and I/O, including non-isolated input × 1 (Line 2), non-isolated output × 1 (Line 3), bi-directional non-isolated I/O × 2 (Line 0/1), and RS-232 × 1 Device trigger via pressing button on side supported.				
Power supply	12 VDC to 24 VDC				
Max. power consumption	Approx. 10.6 W @ 24 VDC				
Mechanical					
Focal length	6.72 mm				
Lens mount	M10-mount, adjusting focus manually supported				
Working distance	40 mm to 120 mm				
Ambient illumination	0 lux to 50000 lux				
Light source	Red	Red (Polarized)	Blue	White	White (Polarized)
Aiming system	Green LED				
Indicator	Power indicator (PWR), network indicator (LNK), and status indicator (STS)				
Dimension	46 mm × 38 mm × 25 mm (1.8" × 1.5" × 1.0")				
Weight	Approx. 160 g (0.4 lb.)				
Ingress protection	IP65				
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% RH to 95% RH (no condensation)				
General					
Client software	IDMVS				
Certification	CE, RoHS, KC				

Detection Range

Working Distance (mm)	Field of View		1D Min. Resolution (mm)*	2D Min. Resolution (mm)Δ
	H (mm)	V (mm)		
40	30.48	24.38	0.024	0.071
80	60.95	48.76	0.048	0.143
120	91.43	73.14	0.071	0.214



Note

- 1D Min. Resolution (mm)*: Field of view (long side) / resolution (long side) × number of pixels in the minimum bar width (number of pixels in the minimum bar width = 1)
- 2D Min. Resolution (mm)Δ: Field of view (long side) / resolution (long side) × number of pixels in the side length of minimum module unit (number of pixels in the side length of minimum module unit = 3)
- The device is a non-isolated device. Therefore, the device should be powered separated or you can purchase an I/O box for power supply.
- The integrated cable of the device is a static cable by default that cannot be used in moving scene, such as drag chain. Therefore, it is recommended to fix the cable during installation.