

# MV-ID2013M

## 1.3 MP Industrial Code Reader



### Introduction

MV-ID2013M industrial code reader can read different types of 1-dimensional and 2-dimensional codes, and its max. reading speed reaches 72 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.

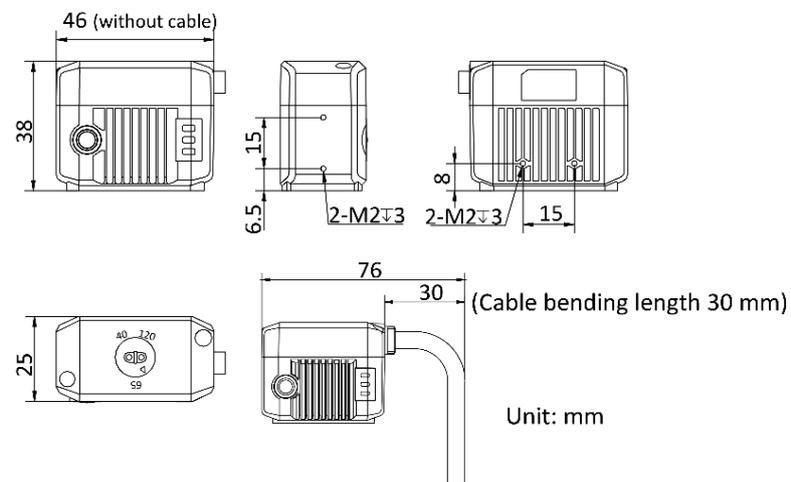
### Applicable Industry

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

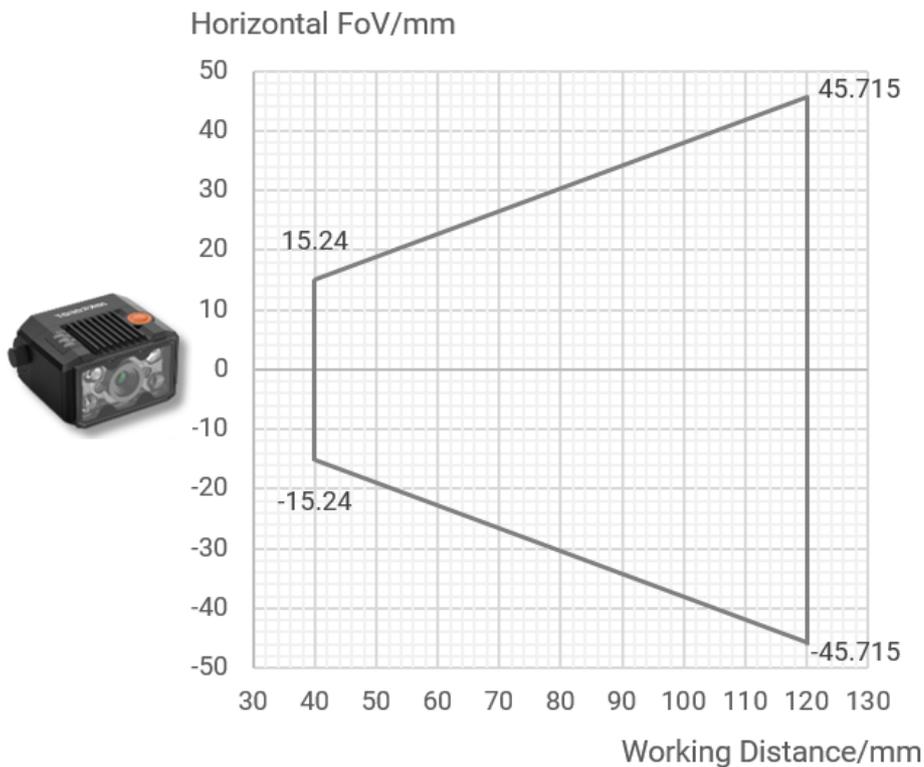


## Specification

Model	MV-ID2013M-06S-RBN(-YAG)	MV-ID2013M-06S-RBP(-YAG)	MV-ID2013M-06S-BBN	MV-ID2013M-06S-WBN	MV-ID2013M-06S-WBP
<b>Performance</b>					
<b>Symbologies</b>	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				
<b>Max. frame rate</b>	60 fps				
<b>Max. reading speed</b>	72 codes/sec				
<b>Sensor type</b>	CMOS, global shutter				
<b>Pixel size</b>	4 μm × 4 μm				
<b>Sensor size</b>	1/2.7"				
<b>Resolution</b>	1280 × 1024				
<b>Exposure time</b>	35 μs to 1 sec				
<b>Gain</b>	0 dB to 15 dB				
<b>Mono/color</b>	Mono				
<b>Communication protocol</b>	SmartSDK, TCP Client, Serial, FTP, TCP Server, Profinet, MELSEC/SLMP, Ethernet/IP, ModBus, UDP, Fins				
<b>Electrical feature</b>					
<b>Data interface</b>	Fast Ethernet (100 Mbit/s)				
<b>Digital I/O</b>	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.				
<b>Power supply</b>	12 VDC to 24 VDC				
<b>Max. power consumption</b>	Approx. 4 W @ 24 VDC				
<b>Mechanical</b>					
<b>Focal length</b>	6.72 mm				
<b>Lens mount</b>	M10-mount, adjusting focus manually supported				
<b>Working distance</b>	40 mm to 120 mm				
<b>Ambient illumination</b>	0 lux to 50000 lux				
<b>Light source</b>	Red	Red (Polarized)	Blue	White	White (Polarized)
<b>Aiming system</b>	Green LED				
<b>Indicator</b>	Power indicator (PWR), network indicator (LNK), and status indicator (STS)				
<b>Dimension</b>	46 mm × 38 mm × 25 mm (1.8" × 1.5" × 1.0")				
<b>Weight</b>	Approx. 160 g (0.4 lb.)				
<b>Ingress protection</b>	IP65				
<b>Temperature</b>	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)				
<b>Humidity</b>	20% RH to 95% RH (no condensation)				
<b>General</b>					
<b>Client software</b>	IDMVS				
<b>Certification</b>	CE, RoHS, KC				

## Detection Range

Working Distance (mm)	Field of View		1D Min. Resolution (mm)*	2D Min. Resolution (mm) $\Delta$
	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) $\Delta$ : 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.