

## **MV-ID2004M**

#### 0.4 MP Industrial Code Reader





# C € RoHS



#### Introduction

MV-ID2004M industrial code reader can read different • types of 1-dimensional and 2-dimensional codes, and its max. reading speed reaches 41 codes/sec (network • device) and 38 codes/sec (USB device) respectively. 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 aviation connector for single cable wiring.
- Adopts LED aiming light to help aim codes.
- Adopts focus knob for adjusting focusing manually.
- Adopts multiple IO interfaces and plug-in power interface.

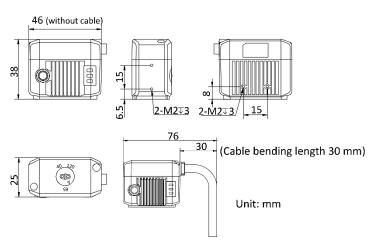
## **Applicable Industry**

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

#### **Available Model**

- Red light source with network interface:
   MV-ID2004M-06S-RBN
- Blue light source with network interface: MV-ID2004M-06S-BBN
- White light source with network interface: MV-ID2004M-06S-WBN
- Red light source with USB interface: MV-ID2004M-06S-RBN-U
- Blue light source with USB interface: MV-ID2004M-06S-BBN-U
- White light source with USB interface: MV-ID2004M-06S-WBN-U

#### **Dimension**





## **Specification**

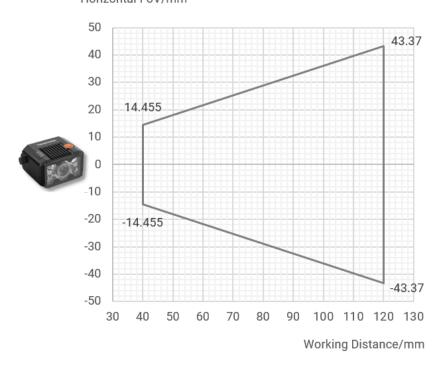
Model	MV-ID2004M-06S-RBN(-U) MV-ID2004M-06S-BBN(-U) MV-ID2004M-06S-WBN(-U				
Performance					
Symbologies	1-dimensional codes: Code 39, Code 93, Code 128, ITF 14, ITF 25, CodaBar, EAN 8, EAN 13, UPCA,				
	UPCE				
	2-dimensional codes: QR Code, Data Matrix				
Max. frame rate	60 fps				
Max. reading speed	Network interface: 41 codes/sec				
	USB interface: 38 codes/sec				
Sensor type	CMOS, global shutter				
Pixel size	6.9 μm × 6.9 μm				
Sensor size	1/2.9"				
Resolution	704 × 540				
Exposure time	16 µs to 1 sec				
Gain	0 dB to 15 dB				
Mono/color	Mono				
Communication	Network interface: SmartSDK, TCP Client, Serial, FTP, TCP Server, Profinet, MELSEC/SLMP,				
protocol	Ethernet/IP, ModBus, UDP, Fins				
	USB interface: SmartSDK, USB				
Electrical feature	T				
Data interface	Network interface: Fast Ethernet (100 Mbit/s)				
D: :: 11/0	USB interface: USB 3.0				
Digital I/O	Network interface: 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.				
	USB interface: 17-pin M12 connector provides data transmission. Device trigger via pressing button on side supported.				
Power supply	Network interface: 12 VDC to 24 VDC				
rowei suppiy					
Max. power	USB interface: 5 VDC (USB 3.0 provides power supply)				
consumption	Network interface: Approx. 3.8 W @ 24 VDC USB interface: Approx. 6 W @ 5 VDC				
Mechanical	OSD III. CHACE. Approx. 0 W (b) 3 VDC				
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 Blue White				
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	2D Min. Resolution
Working Distance (mm)	H (mm)	V (mm)	(mm)*	(mm)∆
40	28.91	22.18	0.041	0.123
80	57.83	44.36	0.082	0.246
120	86.74	66.54	0.123	0.370





#### **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)∆: 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.