MV-ID2004M

0.4 MP Industrial Code Reader

Introduction

MV-ID2004M industrial code reader can read different types of 1-dimensional and 2-dimensional codes, and its max. reading speed reaches 62 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

- 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.

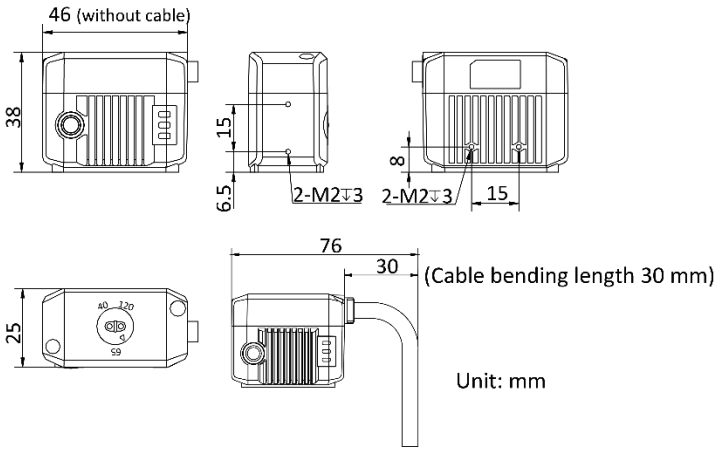
Applicable Industry

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

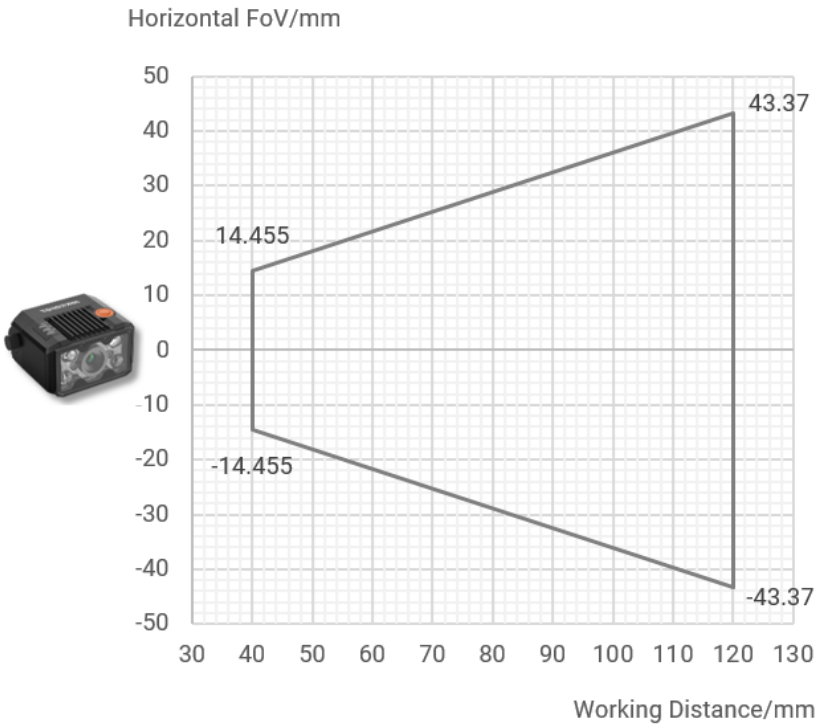


Specification

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: 62 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 protocol	Network interface: SmartSDK, TCP Client, Serial, FTP, TCP Server, Profinet, MELSEC/SLMP, Ethernet/IP, ModBus, UDP, Fins USB interface: SmartSDK, USB		
Electrical feature			
Data interface	Network interface: Fast Ethernet (100 Mbit/s) 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 USB interface: 5 VDC (USB 3.0 provides power supply)		
Max. power consumption	Network interface: Approx. 4 W @ 24 VDC USB interface: Approx. 4.6 W @ 5 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	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 (mm)*	2D Min. Resolution (mm)△
	H (mm)	V (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.