

MV-ID2016M (Long Focal Length)

1.4 MP Industrial Code Reader

CE RoHS



Introduction

MV-ID2016M (Long Focal Length) 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.

Available Model

- 16 mm focal length: MV-ID2016M-16S-RBN
- 25 mm focal length: MV-ID2016M-25S-RBN

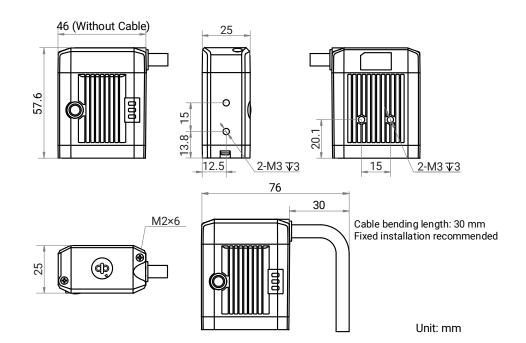
Applicable Industry

Consumer electronics, food and pharmaceutical, electronic semiconductor, new energy, etc.

Dimension

Key Feature

- Compact design and small in size.
- Adopts focus knob for adjusting focusing manually.
- Adopts multiple IO interfaces and plug-in power interface.
- Supports multiple communication protocols, including SmartSDK, TCP Server, Serial, FTP, TCP Client, Profinet, Melsec/SLMP, Ethernet/IP, Modbus, UDP, and Fins.





Specification

Model	MV-ID2016M-16S-RBN	MV-ID2016M-25S-RBN		
Performance				
Symbologies Max. frame rate	1-dimensional codes: Code 39, Code 93, Code 128 (include GS1-128), ITF 14, ITF 25, CodaBar, EAN 8, EAN 13, UPCA, UPCE, Matrix 25, MSI, China Post, Code 11, Industrial 2of5, Pharmacode 2-dimensional codes: QR Code (include GS1-QR), Data Matrix (include GS1-DM), MicroQR, AZTEC, HanXin Stacked codes: PDF 417			
	60 fps			
Max. reading speed	45 codes/sec			
Sensor type Pixel size	CMOS, global shutter			
	3.45 μm × 3.45 μm			
Sensor size	1/2.9"			
Resolution	1408 × 1024			
Exposure time	16 μs to 1 sec			
Gain Mana (aalar	0 dB to 15 dB			
Mono/color Communication protocol	Mono SmartSDK, TCP Server, Serial, FTP, TCP Client, Profinet, Melsec/SLMP, Ethernet/IP, Modbus, UDP, and 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), configurable 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. 24 W @ 24 VDC			
Mechanical				
Focal length	16 mm	25 mm		
Lens mount	M12-mount, adjusting focus manually s	upported		
Working distance	105 mm to 150 mm	170 mm to 200 mm		
Ambient illumination	0 lux to 50000 lux			
Light source	Red			
Aiming system	Not supported			
Indicator	Power indicator (PWR), network indicator (LNK), and status indicator (STS)			
Dimension	46 mm × 25 mm × 57.6 mm (1.8" × 1.0" × 2.3")			
Weight	Approx. 215 g (0.5 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			

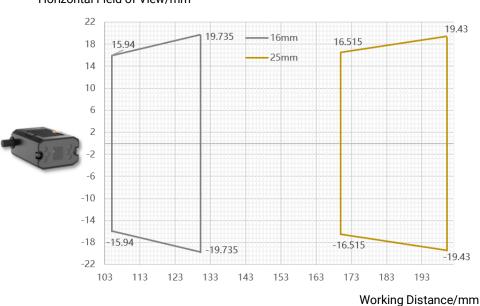
Detection Range



Focal Length (mm)	Working Distance (mm)	Field of View		1D Min. Resolution	2D Min. Resolution
		H (mm)	V (mm)	(mm)*	(mm)∆
16	105	31.88	23.18	0.025	0.068
	110	33.40	24.29	0.026	0.071
	115	34.91	25.39	0.027	0.074
	120	36.43	26.50	0.028	0.078
	125	37.95	27.60	0.030	0.081
	130	39.47	28.70	0.031	0.084
25	170	33.03	24.02	0.026	0.070
	175	34.00	24.73	0.027	0.072
	180	34.97	25.44	0.027	0.075
	185	35.95	26.14	0.028	0.077
	195	37.89	27.56	0.030	0.081
	200	38.86	28.26	0.030	0.083

1D Min. Resolution (mm)*: Field of view (long side) / resolution (long side) × 1

2D Min. Resolution (mm) Δ : Field of view (long side) / resolution (long side) × 3



Horizontal Field of View/mm

Note

- 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.
- It is recommended to provide separate power supply to the device when the device is in use.
- When the device firmware is V3.3.0.R 241012,240924e0,00 and above, all codes in the symbologies can be recognized.

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