MV-ID2016M-06T/10T/16T

1.6 MP Industrial Code Reader

Introduction

MV-ID2016M-06T/10T/16T industrial code reader can read different types of 1D and 2D codes, and its max. reading speed reaches 45 codes/sec. It adopts high-speed focus adjustment technology for fast focus adjustment, and is a good selection for the mixed line production.

Key Feature

- Supports high-speed focus adjustment for switching working distance.
- Compact design and small in size, and can be installed in narrow space.
- Adopts LED aiming light to aim targets.
- Adopts multiple IO interfaces and plug-in power interface for easy wiring.
- Supports multiple communication protocols, including TCP Server, Serial, FTP, TCP Client, Profinet, Ethernet/IP, MELSEC/SLMP, Modbus, UDP, and Fins.

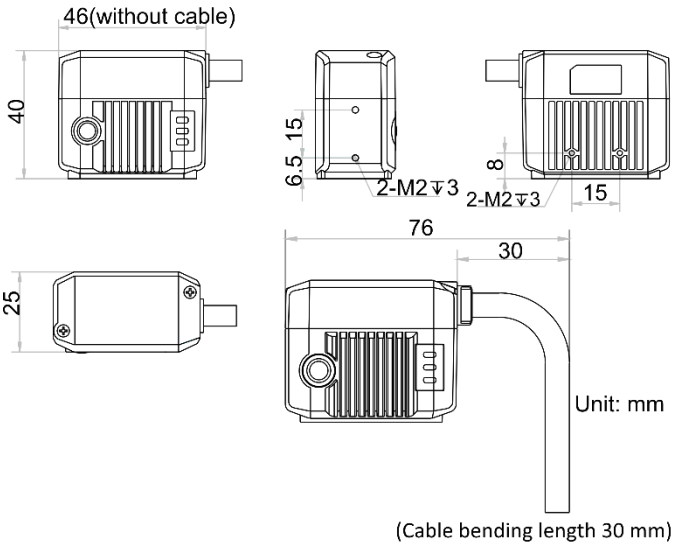
Available Model

- MV-ID2016M-06T-RBP
- MV-ID2016M-10T-RBP
- MV-ID2016M-16T-RBN

Applicable Industry

Consumer electronics, food and beverage, pharmaceutical, new energy, etc.

Dimension



Specification

Model	MV-ID2016M-06T-RBP	MV-ID2016M-10T-RBP	MV-ID2016M-16T-RBN
Performance			
Symbologies	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		
Max. frame rate	60 fps		
Max. reading speed	45 codes/sec		
Sensor type	CMOS, global shutter		
Pixel size	3.45 μm × 3.45 μm		
Sensor size	1/2.9"		
Resolution	1408 × 1024		
Exposure time	16 μs to 20000 μs		
Gain	0 dB to 15 dB		
Mono/color	Mono		
Communication protocol	TCP Server, Serial, FTP, TCP Client, Profinet, Ethernet/IP, MELSEC/SLMP, 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 (Line 2) × 1, non-isolated output (Line 3) × 1, configurable bi-directional non-isolated I/O × 2 (Line 0/1), and RS-232 × 1. Supports device triggering via pressing button on side.		
Power supply	12 VDC to 24 VDC		
Max. power consumption	Approx. 4 W @ 12 VDC		
Mechanical			
Focal length	6.7 mm	10 mm	16 mm
Lens mount	M12-mount		
Working distance	70 mm to 160 mm	95 mm to 400 mm	100 mm to 400 mm
Ambient illumination	0 lux to 50000 lux		
Light source	Red, polarized	Red, polarized	Red
Aiming system	Orange LED		
Indicator	Power indicator (PWR), network indicator (LNK), and status indicator (STS).		
Dimension	46 mm × 40 mm × 25 mm (1.8" × 1.6" × 1.0")		
Weight	Approx. 135 g (0.3 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

Lens Focal Length (mm)	Working Distance (mm)	Field of View		1D Min. Resolution (mm)*	2D Min. Resolution (mm)△
		H (mm)	V (mm)		
6	70	51.12	37.25	0.04	0.11
	100	73.42	53.66	0.05	0.15
	130	94.83	69.18	0.07	0.20
	160	116.75	84.39	0.08	0.25
10	100	48.58	35.33	0.03	0.10
	150	72.86	52.99	0.05	0.16
	200	97.15	70.66	0.07	0.21
	250	121.44	88.32	0.09	0.26
	300	145.73	105.98	0.10	0.31
	350	170.02	123.65	0.12	0.36
	400	194.30	141.31	0.14	0.41
16	100	30.36	22.08	0.02	0.06
	150	45.54	33.12	0.03	0.10
	200	60.72	44.16	0.04	0.13
	250	75.90	55.20	0.05	0.16
	300	91.08	66.24	0.06	0.19
	350	106.26	77.28	0.08	0.23
	400	121.44	88.32	0.09	0.26

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)