

MV-ID2004M-16T

0.4 MP Industrial Code Reader



Introduction

MV-ID2004M-16T 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 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.

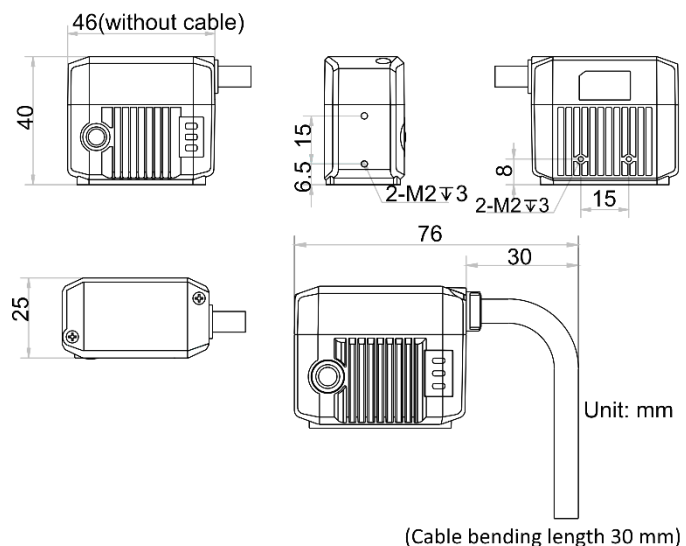
Available Model

MV-ID2004M-16T-RBN

Applicable Industry

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

Dimension



Specification

Model	MV-ID2004M-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	6.9 μm \times 6.9 μm
Sensor size	1/2.9"
Resolution	704 \times 540
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) \times 1, non-isolated output (Line 3) \times 1, configurable bi-directional non-isolated I/O \times 2 (Line 0/1), and RS-232 \times 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	16 mm
Lens mount	M12-mount
Working distance	100 mm to 400 mm
Ambient illumination	0 lux to 50000 lux
Light source	Red
Aiming system	Orange LED
Indicator	Power indicator (PWR), network indicator (LNK), and status indicator (STS)
Dimension	46 mm \times 40 mm \times 25 mm (1.8" \times 1.6" \times 1.0")
Weight	Approx. 135 g (0.3 lb.)
Ingress protection	IP65
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)
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)Δ	Diagram of Field of View
	H (mm)	V (mm)			
100	30.36	23.29	0.04	0.13	
150	45.54	34.93	0.06	0.19	
200	60.72	46.58	0.09	0.26	
250	75.9	58.22	0.11	0.32	
300	91.08	69.86	0.13	0.39	
350	106.26	81.51	0.15	0.45	
400	121.44	93.15	0.17	0.52	

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)Δ: 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)