

MV-SC1008M

0.8 MP 1/4" Vision Sensor



Introduction

With built-in positioning and measurement algorithms, MV-SC1008M vision sensor can detect object's existence, quantity, location, etc. It can be monitored and operated via the SCMVS client. It can output results via RS-232 and Ethernet, and cooperate with other processes via IO. The vision sensor supports multiple result output methods and customized result text output.

Available Model

- Standard distance:
MV-SC1008M-05S-WBN-SR
- Near distance:
MV-SC1008M-05S-WBN-NR

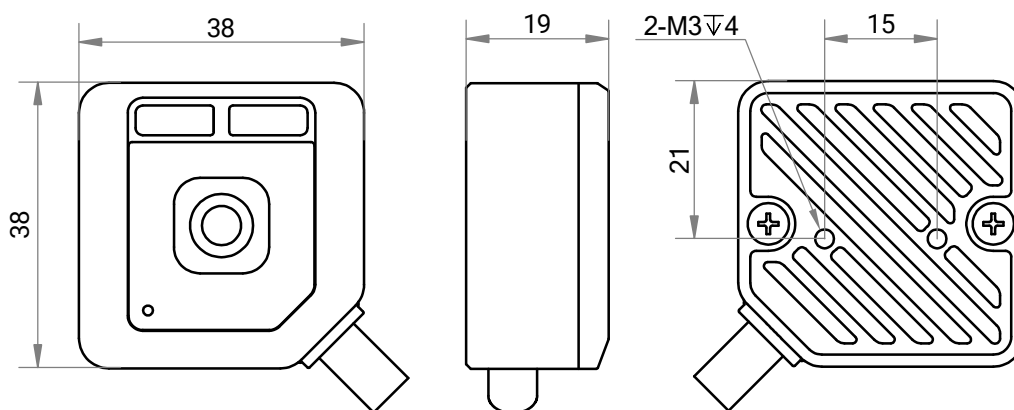
Applicable Industry

Consumer electronics, food and medical industry, automobile, etc.

Key Features

- Adopts small-size design for all types of machines and compact workstations.
- Adopts embedded hardware platform for high-speed image processing.
- Adopts built-in positioning and measurement algorithms to detect object's existence, quantity, location, etc.
- Integrated laser to allow the field-of-view to be clearly.
- Provides multiple indicators for displaying device status.
- Supports multiple communication protocols, including Modbus, EtherNet/IP, Profinet, FTP, UDP, TCP, and Serial Port.

Dimension



(Cable bending length 30 mm)

Unit: mm

Specification

Model	MV-SC1008M-05S-WBN-SR	MV-SC1008M-05S-WBN-NR
Tool		
Vision tool	<ul style="list-style-type: none"> ● Count: Spot count, edge count, pattern count ● Existence: Circle existence, line existence, spot existence, edge existence, contour existence ● Location: Position fixture ● Logic tool: Condition judge, logic judge, combination judge, calculator ● Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement ● Recognition: Classification registration 	
Solution capacity	Supports solution importing and exporting, and up to 8 solutions and 40 modules can be stored.	
Communication protocol	Modbus, EtherNet/IP, Profinet, FTP, UDP, TCP client, TCP server, Serial Port, MELSEC/SLMP, FINS, Keyence KV	
Camera		
Sensor type	CMOS, global shutter	
Pixel size	2.7 μm \times 2.7 μm	
Sensor size	1/4"	
Resolution	1024 \times 768	
Max. frame rate	15 fps	
Dynamic range	66 dB	
SNR	40 dB	
Gain	1 dB to 15 dB	
Exposure time	60 μs to 7000 μs	
Pixel format	Mono 8	
Mono/color	Mono	
Electrical features		
Data interface	Fast Ethernet (100 Mbit/s)	
Digital I/O	Green terminal provides power, digital I/O, and serial port, including input signal \times 1 (IN0), output signal \times 1 (OUT0), and RS-232 \times 1. Supports triggering device via pressing top trigger button.	
Power supply	12 VDC to 24 VDC	
Max. power consumption	Approx. 3 W @12 VDC	
Mechanical		
Lens mount	M5-mount	
Focal length	4.9 mm	
Working distance	240 mm	120 mm
Lens cap	Transparent lens cap	
Light source	White LED	
Aiming system	Cross laser	
Indicator	Power indicator (PWR), result indicator (OK/NG)	
Dimension	38 mm \times 38 mm \times 19 mm (1.5" \times 1.5" \times 0.7")	
Weight	Approx. 40 g (0.09 lb.) without cable	
Ingress protection	IP54	

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	SCMVS
Certification	CE, KC

Detection Range

Device Model	Installation Distance	Field of View	Single Pixel Accuracy
MV-SC1008M-05S-WBN-NR	80 mm	45.23 mm × 33.92 mm	0.044 mm
	120 mm	67.85 mm × 50.89 mm	0.066 mm
	160 mm	90.46 mm × 67.85 mm	0.088 mm
MV-SC1008M-05S-WBN-SR	200 mm	113.08 mm × 84.81 mm	0.11 mm
	240 mm	135.7 mm × 101.77 mm	0.132 mm
	280 mm	158.31 mm × 118.73 mm	0.155 mm

