MV-SC3016M

1.6 MP Vision Sensor









Introduction

With built-in positioning and measurement algorithms, MV-
SC3016M 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.

Key Features

- Adopts embedded hardware platform for highspeed image processing.
- Adopts built-in positioning and measurement algorithms to detect object's existence, quantity, location, etc.
- Multiple IO interfaces for input and output signals.
- Multiple indicators for displaying device status.
- Adopts light source to ensure uniform brightness in the illuminated area.
- Supports multiple communication protocols, including RS-232, TCP, UDP, FTP, Profinet, Modbus, and EtherNet/IP.

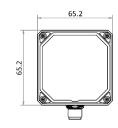
Available Model

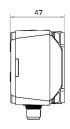
- 6 mm focal length: MV-SC3016M-06M-WBN
- 12.4 mm focal length: MV-SC3016M-12M-WBN
- 14.8 mm focal length: MV-SC3016M-15M-WBN

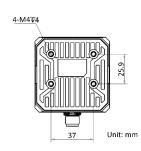
Applicable Industry

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

Dimension









Specification

contour existence Location: Match calibration, match location, position fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge widt measurement Recognition: OCR, code recognition, classification registration, object detection registration Deep learning: DL object detection, DL classification Solution capacity Communication protocol RS-232, TCP, UDP, FTP, PROFINET, Modbus, EtherNet/IP, MELSEC/SLMP, FINS, Keyence KV Camera Sensor type CMOS, global shutter Pixel size 3.45 µm × 3.45 µm Sensor size 1/2.9° Resolution 1408 × 1024 Max. frame rate 60 fps Dynamic range 71.4 dB SNR 41 dB Gain 0 dB to 15 dB Exposure time 16 µs to 1 sec Pixel format Mono 8 Mono/color Mono Flectrical features Data interface Fast Ethernet (100 Mbit/s) Digital I/O 17-pin M12 connector provides power, Ethernet, digital I/O, and serial port: Input signal × 2 (Line 0/1), output signal × 3 (Line 5/6/7), bi-directional I/O × 3 (Line 2/3/4), and external button input	Model	MV-SC3016M-06M-WBN	MV-SC3016M-12M-WBN	MV-SC3016M-15M-WBN			
Defect detection: Exception detection Existence: Circle existence, line existence, spot existence, edge existence, pattern existence contour existence Location: Match calibration, match location, position fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge widt measurement Recognition: OCR, code recognition, classification registration, object detection registration Deep learning: DL object detection, DL classification Solution capacity Communication protocol RS-232, TCP, UDP, FTP, PROFINET, Modbus, EtherNet/IP, MELSEC/SLMP, FINS, Keyence KV Camera Sensor type CMOS, global shutter Pixel size 3.45 µm × 3.45 µm Sensor size 1/2.9° Resolution 14.08 × 1024 Max. frame rate 60 fps Dynamic range 71.4 dB SNR 41 dB Gain 0 dB to 15 dB Exposure time 16 µs to 1 sec Pixel format Mono 8 Mono/color Mono Electrical features Data interface Fast Ethernet (100 Mbit/s) Digital I/O 17-pin M12 connector provides power, Ethernet, digital I/O, and serial port: Input signal × 2 (Line 0/1), output signal × 3 (Line 5/6/7), bi-directional I/O × 3 (Line 2/3/4), and external button input	Tool						
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Power supply 24 VDC	Power supply						
Max. power	Max. power	Approx. 40 WG24 VDC					
consumption Approx. 48 W@24 VDC	consumption	Approx. 48 W@24 VDC					
Mechanical	Mechanical						
Lens mount M12-mount, mechanical autofocus lens	Lens mount	M12-mount, mechanical auto	ofocus lens				
Focal length 6 mm 12.4 mm 14.8 mm	Focal length	6 mm	12.4 mm	14.8 mm			
Lens cap Transparent lens cap. Polarization or infrared filter lens cap is optional.	Lens cap	Transparent lens cap. Polarization or infrared filter lens cap is optional.					
Light source 14 LEDs, white light by default. Red or blue is optional.	Light source	14 LEDs, white light by default. Red or blue is optional.					
Indicator Power indicator (PWR), network indicator (LNK), status indicator (STS), result indicator (OK/NG)	Indicator	Power indicator (PWR), network indicator (LNK), status indicator (STS), result indicator (OK/NG)					
Dimension 65.2 mm × 65.2 mm × 47 mm (2.6" × 2.6" × 1.9")	Dimension	65.2 mm × 65.2 mm × 47 mm (2.6" × 2.6" × 1.9")					



Weight	Approx. 280 g (0.6 lb.)				
Ingress protection	IP67 (under proper installation of lens and wiring)				
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

Lens focal length	Installation distance	Field of view	Single pixel accuracy
6 mm	5 mm	4.05 mm × 2.94 mm	0.003 mm
	2000 mm	1619.20 mm × 1177 60mm	1.150 mm
12.4 mm	70 mm	27.42 mm × 19.94 mm	0.019 mm
	2000 mm	783.48 mm × 569.81 mm	0.556 mm
14.8 mm	80 mm	26.26 mm × 19.10 mm	0.019 mm
	2000 mm	656.43 mm × 477.71 mm	0.466 mm

