MV-SC2016EM-06S-WBN-Mini

1.6 MP 1/2.9" Vision Sensor

Introduction

With built-in positioning and measurement algorithms, MV-SC2016EM-06S-WBN-Mini vision sensor can realize counting, existence, measurement detection. 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

MV-SC2016EM-06S-WBN-Mini

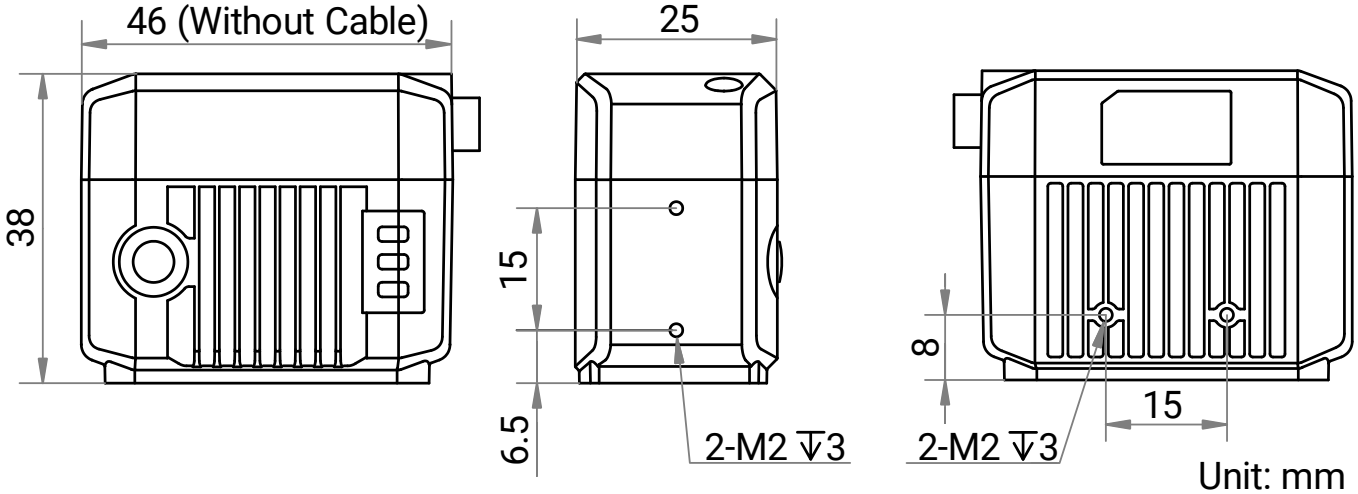
Applicable Industry

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

Key Features

- Adopts embedded hardware platform for high-speed image processing.
- Adopts built-in positioning and measurement algorithms for counting, existence, measurement detection.
- 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 RS-232, TCP, UDP, FTP, ModBus, PROFINET, EtherNet/IP and other communication modes.

Dimension



Model	MV-SC2016EM-06S-WBN-Mini
Tool	
Vision tool	● Count: Spot count , edge count, and pattern count ● Existence: Circle existence, line existence, spot existence, edge existence, and pattern existence ● Location: Fixture ● Logic tool: Condition judge, character comparison, logic judge, and calculator ● Measurement: L2L angle, diameter measurement, brightness average value, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, and edge width measurement ● Recognition: OCR and classification registration
Solution capacity	Supports solution importing and exporting, up to 8 solutions and 40 modules can be stored.
Communication protocol	RS-232, TCP, UDP, FTP, PROFINET, ModBus, EtherNet/IP
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
Electrical features	
Data interface	Fast Ethernet (100 Mbit/s)
Digital I/O	17-pin M12 connector provides power, Ethernet, serial port, and digital I/O, including non-isolated input × 1 (Line 2), non-isolated output × 1 (Line 3), configurable non-isolated I/O × 2 (Line 0/1), RS-232 × 1, and external button input × 1 (BUTTON) Output signals support NPN only.
Power supply	12 VDC to 24 VDC
Max. power consumption	11 W @ 24 VDC
Mechanical	
Lens mount	M10-mount, adjusting focus manually supported
Focal length	6.72 mm
Lens cap	Transparent lens cap
Light source	White LED lamp × 4
Indicator	Power indicator (PWR), network indicator (LNK), and status indicator (STS)
Dimension	46 mm × 38 mm × 25 mm (1.8" × 1.5" × 1.0")
Weight	Approx. 160 g (0.4 lb.)
Ingress protection	IP65 (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

Focal Length	Installation Distance	Field of View	Single Pixel Accuracy
6.72 mm	40 mm	29 mm × 22 mm	0.021 mm
	120 mm	87 mm × 66 mm	0.062 mm