

MV-SC2004M

0.4 MP Vision Sensor



Introduction

With built-in positioning and measurement algorithm, MV-SC2004M vision sensor can detect object's presence, position, dimension, etc. It can be monitored and operated via web based interface. The vision sensor can output detection results via RS-232 and Ethernet, and cooperate with other processes via IO. It supports multiple result output methods and customized result text output.

Key Feature

- Adopts embedded hardware platform for high-speed image processing.
- Adopts built-in positioning and measurement algorithm to detect object's presence, position, etc.
- Multiple IO interfaces for input and output signals.
- Multiple indicators for displaying device status.
- Adopts light cup to ensure uniform brightness in the illuminated area.
- Supports multiple communication protocols, including Fast Ethernet, serial port, TCP, UDP, FTP, etc.

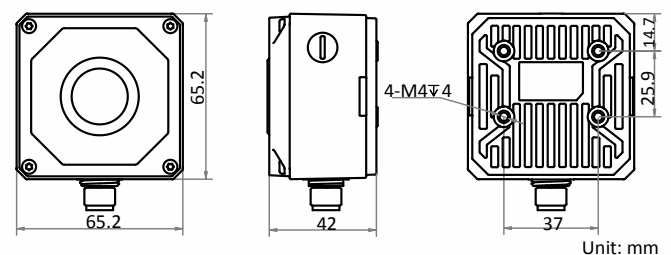
Available Model

- Vision sensor with 6 mm focal length: MV-SC2004M-06S-WBN
- Vision sensor with 12.4 mm focal length: MV-SC2004M-12S-WBN
- Vision sensor with 14.8 mm focal length: MV-SC2004M-16S-WBN

Applicable Industry

Consumer electronics, food and beverage, pharmaceutical, automobile, etc.

Dimension



Unit: mm



Specification

Model	MV-SC2004M-06S-WBN	MV-SC2004M-12S-WBN	MV-SC2004M-16S-WBN
Tools			
Vision tools	Match trait, Blob, fixture, find line, find circle, detect distance, measure brightness, measure line to line		
Solution management	Supports solution importing and exporting; 16 solutions can be stored at most		
Camera			
Sensor type	CMOS, global shutter		
Pixel size	6.9 μm x 6.9 μm		
Sensor size	1/2.9"		
Resolution	720 × 540		
Max. frame rate	100 fps		
Dynamic range	74 dB		
SNR	41 dB		
Gain	0 dB to 15 dB		
Exposure time	16 μs to 1 s		
Mono/color	Mono		
Electrical features			
Interface	17-pin M12 connector provides power, Ethernet, digital IO, and serial port		
Ethernet	Fast Ethernet		
Communication protocol	RS-232, TCP, UDP, FTP		
Digital IO	Input signal x 2 (Line 0/1), output signal x 3 (Line 5/6/7), bi-directional I/O x 3 (Line 2/3/4), and button input x 1. Output signal can be set as NPN or PNP		
Power supply	12 VDC to 24 VDC		
Power consumption	Approx. 5.4 W@12 VDC		
Structure			
Lens focal length	6 mm (0.2")	12.4 mm (0.5")	14.8 mm (0.6")
Lens mount	M12-mount, manual focus supported		
Lens cap	Transparent lens cap. Polarization lens cap is optional		
Lighting	Spotlight white light. Spotlight red/blue, and wide-angle white/red/blue light is optional		
Indicator	Power indicator (PWR), network indicator (LNK), status indicator (STS), result indicator (OK/NG)		
Dimension	65.2 mm x 65.2 mm x 42 mm (2.6" x 2.6" x 1.7")		
Weight	Approx. 240 g (0.5 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% to 95% RH, without condensation		
General			
Operating method	Via web based interface		
Certifications	CE, FCC, KC		

HIKROBOT

Hangzhou Hikrobot Technology Co., Ltd.
No.399 Danfeng Road, Binjiang District, Hangzhou 310051, China.
en.hikrobotics.com

SEDECO IMAGING

Germany, Austria, Switzerland	BeNeLux
Sedeco Imaging GmbH	Sedeco Imaging B.V.
Unterer Dammweg 12	Trasmolenlaan 12
76149 Karlsruhe	3447 GZ Woerden
Germany	the Netherlands
T. +49 721 5604 7980	T. +31 348 749110
info@sedeco-imaging.com	info@sedeco-imaging.nl

www.sedeco-imaging.com

Copyright Hikrobot

Hangzhou Hikrobot Technology Co., Ltd. All Rights Reserved. Hangzhou Hikrobot Technology does not tolerate any infringement. Any organization or individual may not imitate or reproduce in whole or in part of the content. The data herein is based on Hikrobot's internal evaluation. Actual data may vary depending on specific configuration and operating condition. The information herein is subject to change without notice. All the content has been checked conscientiously. Nevertheless, Hikrobot shall not be liable to damages resulting from errors, inconsistencies or omissions.