

# MV-SC5060M

6 MP Smart Camera



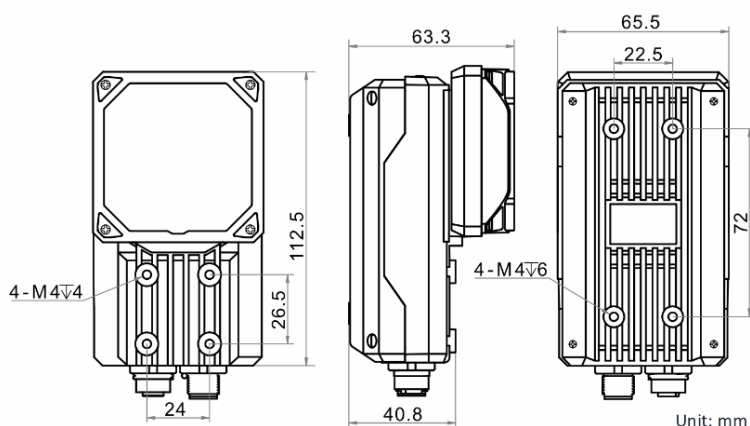
## Introduction

MV-SC5060M smart camera is developed based on high-performance embedded platform. It integrates vision algorithms, logic controls, and vision detection functions. It can be easily configured and operated via the SCMVS client software, and it uses RS-232 and Ethernet to output vision tool results and customized results.

## Available Model

MV-SC5060M-12S-WBN

## Dimension



## Key Feature

- Integrates general vision algorithms to achieve location, measurement, recognition, etc.
- Supports mechanical autofocus function to achieve fast debugging and configuration.
- Big memory and storage support image savings in loop with high performance.
- Adopts multiple I/O interfaces for controlling.
- Supports multiple communication protocols.
- Supports indicators displaying device status.

## Applicable Industry

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



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# Specification

<b>Model</b>	<b>MV-SC5060M-12S-WBN</b>
<b>Tool</b>	
<b>Vision tool</b>	<ul style="list-style-type: none"> <li>● Count: Pattern count, spot count, edge count</li> <li>● Defect detection: Exception detection</li> <li>● Existence: Pattern existence, spot existence, edge existence, circle existence, line existence</li> <li>● Location: Match location, match calibration</li> <li>● Logic tool: If module, condition judge, logic judge, combination judge, character comparison, calculator</li> <li>● Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement</li> <li>● Recognition: OCR, code recognition</li> </ul>
<b>Solution capacity</b>	Supports solution importing and exporting, up to 32 solutions and 40 modules can be stored.
<b>Communication protocol</b>	RS-232, TCP, UDP, FTP, Profinet, ModBus, EtherNet/IP
<b>Camera</b>	
<b>Sensor type</b>	CMOS, rolling shutter
<b>Pixel size</b>	2.4 $\mu\text{m}$ $\times$ 2.4 $\mu\text{m}$
<b>Sensor size</b>	1/1.8"
<b>Resolution</b>	3072 $\times$ 2048
<b>Max. frame rate</b>	30 fps
<b>Gain</b>	0 dB to 15 dB
<b>Exposure time</b>	16 $\mu\text{s}$ to 1 sec
<b>Pixel format</b>	Mono 8
<b>Mono/color</b>	Mono
<b>Platform</b>	
<b>Memory</b>	8 GB
<b>Storage</b>	32 GB
<b>Electrical feature</b>	
<b>Data interface</b>	Gigabit Ethernet interface
<b>Digital I/O</b>	12-pin M12 connector provides power and I/O, including opto-isolated input (Line 0/1/2) $\times$ 3, opto-isolated output (Line 3/4/5) $\times$ 3, and RS-232 $\times$ 1
<b>Power supply</b>	24 VDC
<b>Power consumption</b>	Approx. 7.5 W@24 VDC (light source disabled) Approx. 20 W@24 VDC (light source enabled)



<b>Mechanical</b>	
<b>Lens mount</b>	M12-mount, mechanical autofocus supported.
<b>Focal length</b>	12 mm (0.5")
<b>Lens cap</b>	Transparent lens cap. Half polarization or full polarization lens cap is optional.
<b>Light source</b>	White light. Red, blue, or NIR light is optional.
<b>Indicator</b>	Power indicator (PWR), network indicator (LNK/ACT), and user-defined indicator (U1/U2).
<b>Dimension</b>	112.5 mm × 65.5 mm × 63.3 mm (4.4" × 2.6" × 2.5")
<b>Weight</b>	Approx. 450 g (1.0 lb.)
<b>Ingress protection</b>	IP67
<b>Temperature</b>	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)
<b>Humidity</b>	20% to 95% RH, non-condensing
<b>General</b>	
<b>Client software</b>	SCMVS
<b>Certification</b>	CE, FCC, KC

## Detection Range

Lens focal length	Installation distance	Field of view	Single pixel accuracy
12 mm (0.5")	60 mm (2.4")	36.86 mm × 24.58 mm (1.5" × 1.0")	0.012 mm
	3000 mm (118.1")	1843.2 mm × 1228.8 mm (72.6" × 48.4")	0.6 mm

