

# MV-SC5120M-00C-NNN

12 MP Smart Camera



## Introduction

MV-SC5120M-00C-NNN 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-SC5120M-00C-NNN

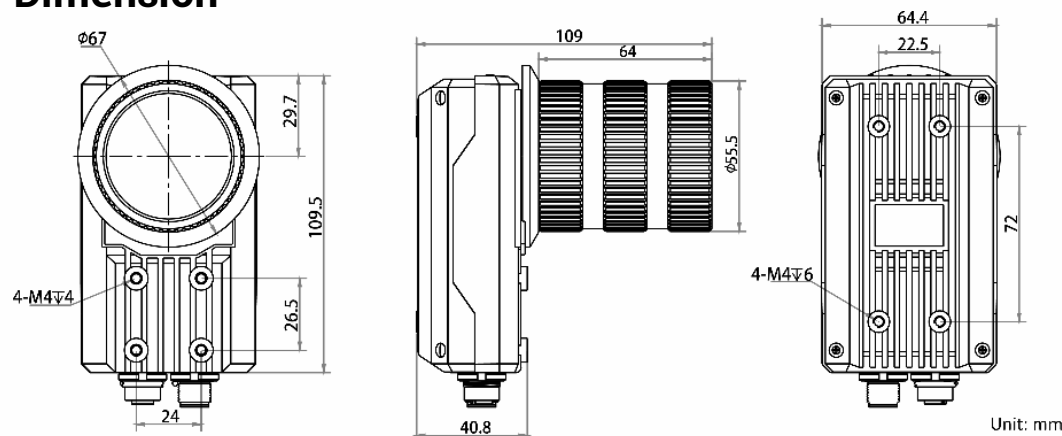
## Applicable Industry

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

## Key Feature

- Integrates general vision algorithms to achieve location, measurement, recognition, etc.
- 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.

## Dimension



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# Specification

<b>Model</b>	<b>MV-SC5120M-00C-NNN</b>
<b>Tool</b>	
<b>Vision tool</b>	<ul style="list-style-type: none"><li>● Count: Pattern count, spot count, edge count</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, global shutter
<b>Pixel size</b>	3.2 $\mu\text{m}$ $\times$ 3.2 $\mu\text{m}$
<b>Sensor size</b>	1"
<b>Resolution</b>	4096 $\times$ 3072
<b>Max. frame rate</b>	24 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



<b>Mechanical</b>	
<b>Lens mount</b>	C-mount
<b>Lens cap</b>	Transparent lens cap
<b>Light source</b>	Not included
<b>Indicator</b>	Power indicator (PWR), network indicator (LNK/ACT), and user-defined indicator (U1/U2).
<b>Dimension</b>	109.5 mm × 64.4 mm × 109 mm (4.3" × 2.5" × 4.3")
<b>Weight</b>	Approx. 470 g (1.0 lb.)
<b>Ingress protection</b>	IP67 (under proper installation of waterproof lens cap)
<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