

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

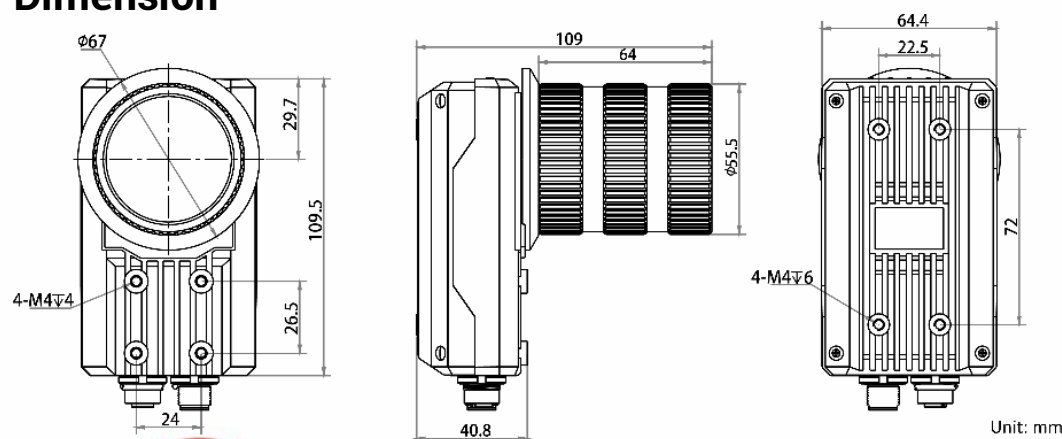
Applicable Industry

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



Specification

Model	MV-SC5120M-00C-NNN
Tool	
Vision tool	● Count: Pattern count, spot count, edge count ● Existence: Pattern existence, spot existence, edge existence, circle existence, line existence ● Location: Match location, match calibration ● Logic tool: If module, condition judge, logic judge, combination judge, character comparison, calculator ● Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement ● Recognition: OCR, code recognition
Solution capacity	Supports solution importing and exporting, up to 32 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	3.2 μm $\times$ 3.2 μm
Sensor size	1"
Resolution	4096 $\times$ 3072
Max. frame rate	24 fps
Gain	0 dB to 15 dB
Exposure time	16 μs to 1 sec
Pixel format	Mono 8
Mono/color	Mono
Platform	
Memory	8 GB
Storage	32 GB
Electrical feature	
Data interface	Gigabit Ethernet interface
Digital I/O	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
Power supply	24 VDC
Power consumption	Approx. 7.5 W@24 VDC

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



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