

MV-SC5200M-00C-NNN

20 MP Smart Camera



Introduction

MV-SC5200M-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.

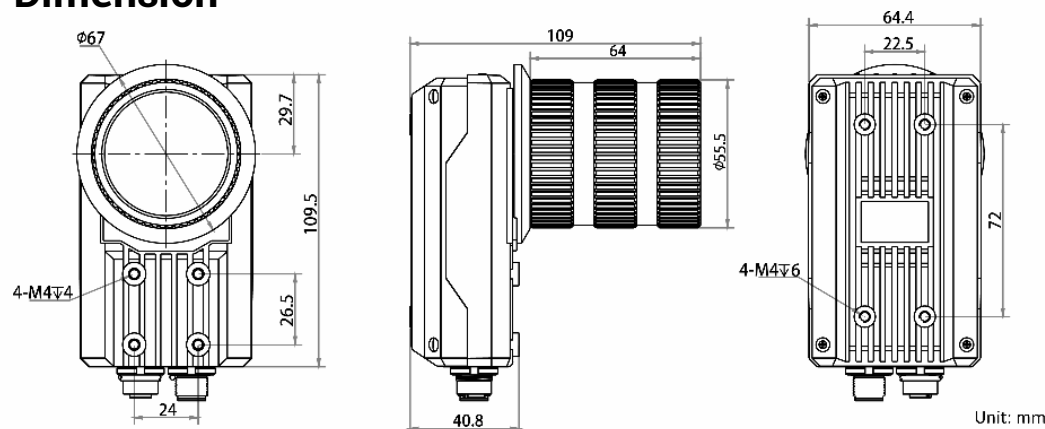
Available Model

MV-SC5200M-00C-NNN

Applicable Industry

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

Dimension



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.

Specification

| | |
|-------------------------------|--|
| Model | MV-SC5200M-00C-NNN |
| Tool | |
| Vision tool | <ul style="list-style-type: none"> ● 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, rolling shutter |
| Pixel size | 2.4 µm × 2.4 µm |
| Sensor size | 1" |
| Resolution | 5440 × 3648 |
| Max. frame rate | 20 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) × 3, opto-isolated output (Line 3/4/5) × 3, and RS-232 × 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 |