MV-SC5020XM-00C

2 MP Mono Smart Camera

MV-SC5020XM-00C smart camera is developed based on high-performance embedded platform with strong calculation performance. It integrates VM functions and AI deep learning algorithm, and can use more than 140 algorithms. It adopts multiple interfaces for supporting display, keyboard, mouse, etc.



Key Features

- Adopts AI deep learning algorithm to achieve OCR, object recognition, defect detection, etc.
- Integrates VM functions, and supports more than 140 algorithms.
- Adopts multiple I/O interfaces, such as multiple input/output signals.
- Supports multiple communication protocols.
- Supports indicators displaying device status for easy debugging and maintenance.
- Supports ingress protection IP67.

Available Model

- MV-SC5020XM-00C-NNN

Typical Application

- Consumer electronics
- Food and pharmaceutical
- Packaging

Specification

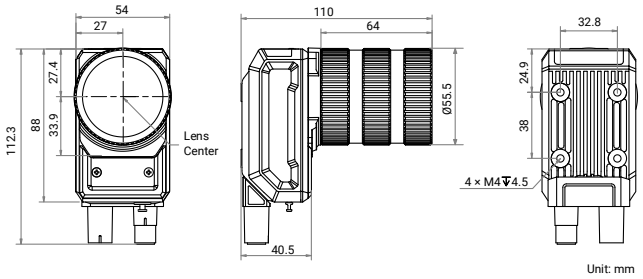
Model	MV-SC5020XM-00C-NNN
Tool	
Function module	Vision Master Platform (include deep learning module)
Communication protocol	TCP, UDP, Modbus, Serial Port, PROFINET, EtherNet/IP, Fins, MC, FTP, etc.
Camera	
Sensor type	CMOS, global shutter
Pixel size	3.45 μm × 3.45 μm
Sensor size	1/2.53"
Resolution	1600 × 1216
Max. frame rate	100 fps
Gain	0 dB to 37 dB
Exposure time	15 μs to 1 sec
Pixel format	Mono 8
Mono/color	Mono
Platform	
Memory	8 GB
Storage	64 GB
Electrical feature	
Data interface	Gigabit Ethernet (1000 Mbit/s)
Digital I/O	12-pin M12 connector provides power and I/O, including opto-isolated input × 3 (Line 0/1/2), opto-isolated output × 3 (Line 3/4/5), and RS-232 × 1
Power supply	24 VDC
Power consumption	Avg. 10 W @ 24 VDC Max. 14.4 W @ 24 VDC
Mechanical	
Lens mount	C-mount
Lens cap	Transparent lens cap
Light source	Not included
Indicator	Power indicator (PWR), network indicator (LNK), and user-defined indicator (U1/U2)
Dimension	Straight angle: 112.3 mm × 54 mm × 110 mm (4.4" × 2.1" × 4.3") Right angle: 88.7 mm × 54 mm × 110 mm (3.5" × 2.1" × 4.3")
Weight	Approx. 370 g (0.8 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% RH to 95% RH (no condensation)
Vibration resistance	Meets standard IEC 60068-2-6:2007. Device only (without installation bracket): 10 Hz to 55 Hz, 1.5 mm peak-to-peak amplitude, 2 hours per axis (X, Y, Z)*

Shock resistance	Meets standard IEC 60068-2-27:2008. Device only (without installation bracket): 30 g / 11 ms, half-sine wave, 500 shocks per axis (6 directions)*
General	
Certification	CE, KC

** After attaching the C-mount lens to camera, tighten the focus ring with set screws and reinforce it by applying UV adhesive around the ring.*

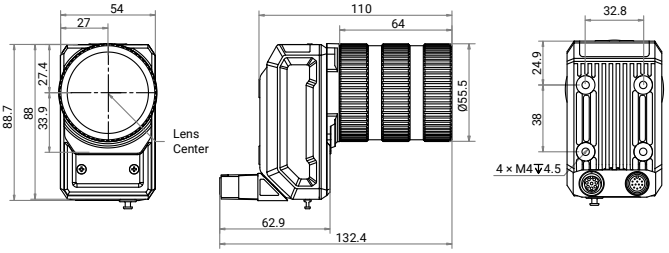
Dimension

Device (Straight Angle):



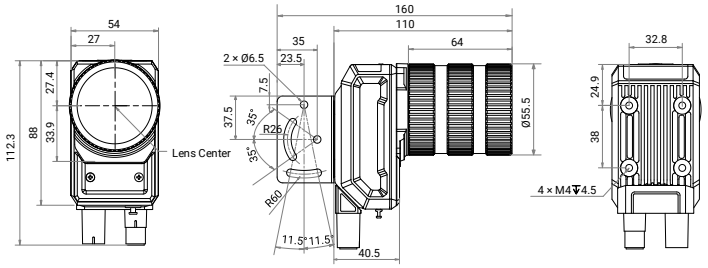
Unit: mm

Device (Right Angle):



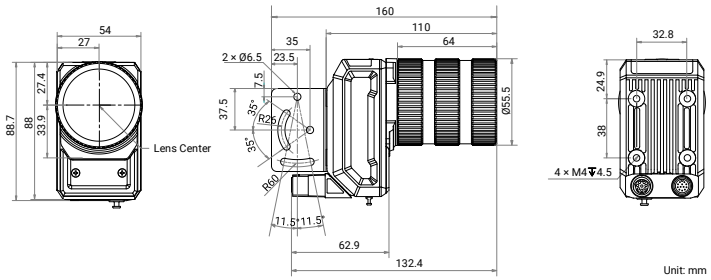
Unit: mm

Device and Installation Bracket (Straight Angle):



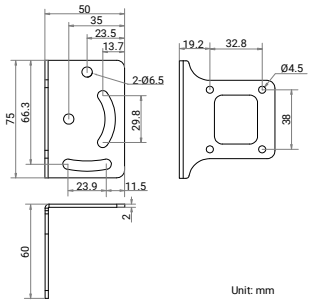
Unit: mm

Device and Installation Bracket (Right Angle):



Unit: mm

Installation Bracket:



Unit: mm

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