

SV7000 SERIES

Smart camera

Product Appearance



Performance Features

Quad-Core High-Performance Processor

- Equipped with an embedded AI learning unit and a high-resolution, high-frame-rate global-shutter image sensor.

Rich and Intuitive Visualization Interface

- All configuration statuses are clearly presented. Operators can quickly locate issues and troubleshoot faults. Operational statistical results can also be easily collected for further analysis.

Simple and Reliable Algorithms

- It incorporates a built-in high-resolution global-shutter image sensor and advanced algorithms. Optimal inspection algorithms can be configured by modifying only a small number of parameters, enabling easy operation even for novice users.

Integrated Camera-Controller Design

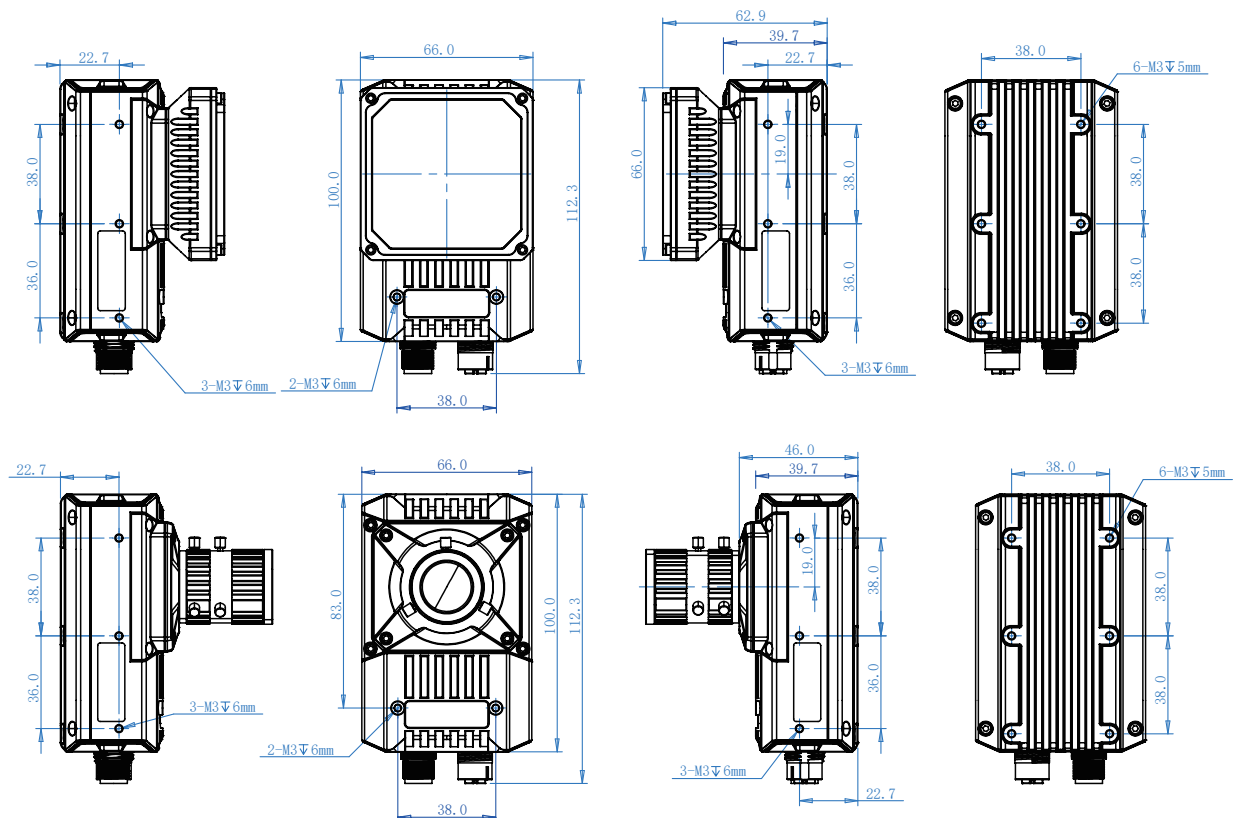
- Powered by world-class built-in vision algorithms, it removes the requirement for an extra vision controller to realize rapid positioning and stable inspection.

Specifications

Model	Image Sensor	Color	Maximum Image Resolution	Image Sensor
SV7020CA	1/2.528", CMOS Color, Global-Shutter	color	1632(H) x 1264(V)	3.45 μm x 3.45 μm Square Pixels
SV7050CC /CA	2/3", CMOS Color, Global-Shutter	color	2432(H) x 2048(V)	3.4 μm x 3.4 μm Square Pixels
SV7050MC/MA	2/3", CMOS Monochrome, Global-Shutter	mono	2432(H) x 2048(V)	3.4 μm x 3.4 μm Square Pixels
SV7120MC	1", CMOS Monochrome, Global Exposure	mono	4096(H) x 3472(V)	3.4 μm x 3.4 μm Square Pixels
SV7200MC	1", CMOS Monochrome, Rolling-Shutter	mono	6016(H) x 4096(V)	2.4 μm x 2.4 μm Square Pixels

Type of camera lens	Auto focus / C-mount lens
Tool Algorithms	Position Correction, Blob Counting, Edge Counting, Circle Detection, Color Area, Brightness Inspection, Contour Presence/Absence, Misalignment Prevention, Width Measurement, Optical Character Recognition (OCR), Barcode Recognition, etc.
Indicator LEDs	Ethernet connection indicator LED; Pass/Fail LED; Input LED (user-configurable); Power indicator LED
Memory	4/8GB
Communication Protocols	RS232, built-in Ethernet port (supports EtherNet/IP, PROFINET, Modbus/MC, TCP/IP raw-socket communication)
External Inputs	2-channel optically isolated inputs, compatible with NPN / PNP relays
External Outputs	3-channel optically isolated outputs
Power Supply Voltage	24V DC+/-10%
Dimensions (bare unit)	112.3*46.0*66.0mm
Operating Temperature	0°C~40°C
Ingress Protection Rating	IP65

Dimension Drawings (Unit: mm)



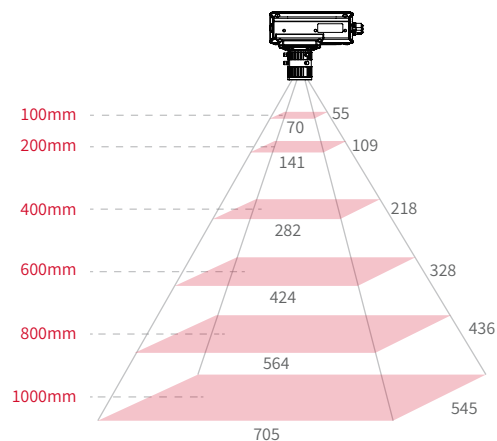
Product Introduction



FOV (Unit: mm)

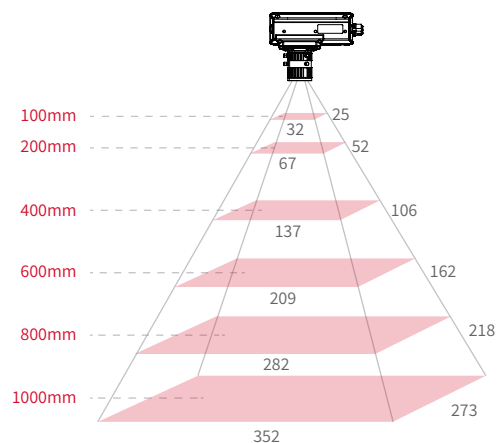
SV7020CA-08W

Installation distance	Field of Vision (H)	Field of Vision (V)
100	70	55
200	141	109
400	282	218
600	424	328
800	564	436
1000	705	545



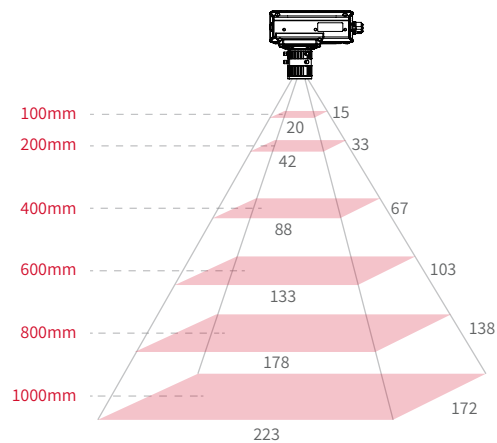
SV7020CA-16W

Installation distance	Field of Vision (H)	Field of Vision (V)
100	32	25
200	67	52
400	137	106
600	209	162
800	282	218
1000	352	273



SV7020CA-25W

Installation distance	Field of Vision (H)	Field of Vision (V)
100	20	15
200	42	33
400	88	67
600	133	103
800	178	138
1000	223	172



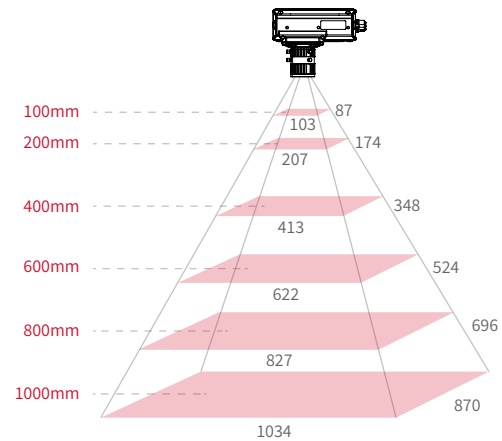
Product Introduction



FOV (Unit: mm)

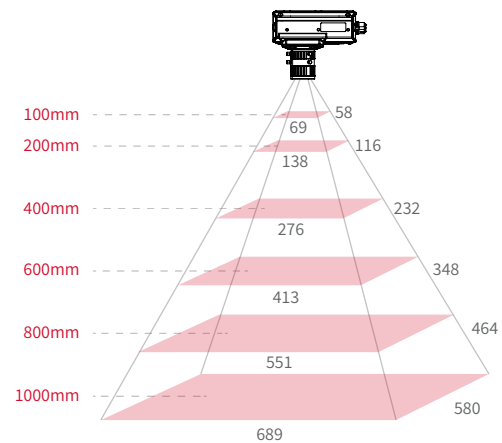
SV7050CA-08W

Installation distance	Field of Vision (H)	Field of Vision (V)
100	103	87
200	207	174
400	413	348
600	622	524
800	827	696
1000	1034	870



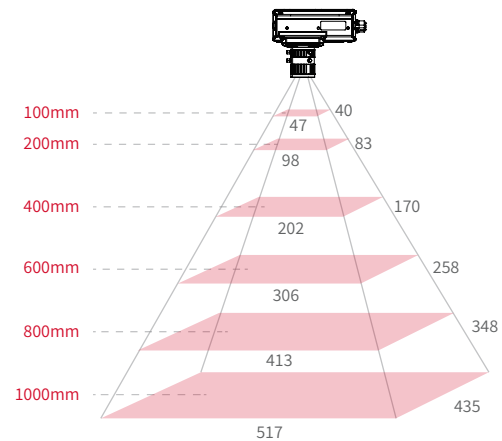
SV7050CA-12W

Installation distance	Field of Vision (H)	Field of Vision (V)
100	69	58
200	138	116
400	276	232
600	413	348
800	551	464
1000	689	580



SV7050CA-16W

Installation distance	Field of Vision (H)	Field of Vision (V)
100	47	40
200	98	83
400	202	170
600	306	258
800	413	348
1000	517	435



ICWV7050CA-25W

Installation distance	Field of Vision (H)	Field of Vision (V)
100	29	25
200	64	54
400	129	109
600	197	166
800	262	220
1000	328	276

