

CA Series GigE Area Scan Camera

Key Features

- Based on the global shutter sensor, covering the needs of mainstream applications.
- GigE interface, with maximum transmission distance up to 100m (without relay).
- Compatible with GigE Vision V2.0 protocol and GenICam standard ,and the third-party software.
- CE, FCC, RoHS, KC certification.



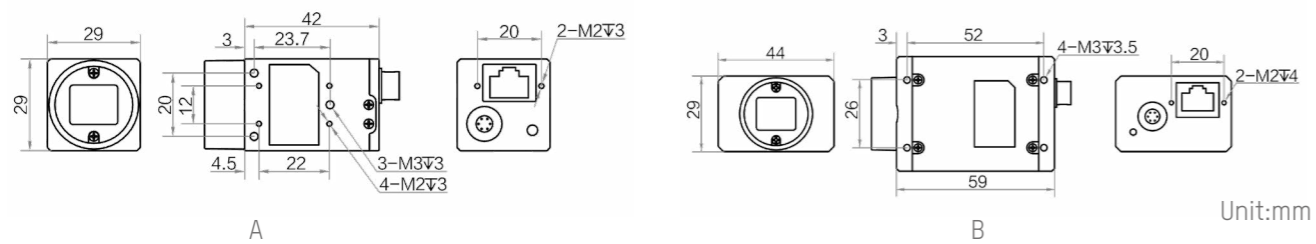
Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Bit depth	Data interface	Mono/Color	Exposure time	Power consumption	Power supply	Working temperature	Lens mount	Dimension	Label
MV-CA003-20GM	PYTHON300	1/4"	4.8 μm	Global	672 × 512	336 fps	10	GigE	Mono	NE:40 μs-10 sec	Typ. 2.6 W @ 12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA003-20GC	PYTHON300	1/4"	4.8 μm	Global	672 × 512	336 fps	10	GigE	Color	NE:49 μs-10 sec	Typ. 2.6 W @ 12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA004-10GM	IMX287	1/2.9"	6.9 μm	Global	720 × 540	312.9 fps	12	GigE	Mono	NE:1 μs-10 sec	Typ. 3.1 W@12 VDC	9-24 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA004-10GC	IMX287	1/2.9"	6.9 μm	Global	720 × 540	312.9 fps	12	GigE	Color	NE:1 μs-10 sec	Typ. 3.1 W@12 VDC	9-24 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA005-20GM	PYTHON480	1/3.6"	4.8 μm	Global	808 × 608	116 fps	10	GigE	Mono	NE:42 μs-10 sec	Typ. 3.0 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA005-20GC	PYTHON480	1/3.6"	4.8 μm	Global	808 × 608	116 fps	10	GigE	Color	NE:42 μs-10 sec	Typ. 3.0 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA013-20GM	PYTHON1300	1/2"	4.8 μm	Global	1280 × 1024	90 fps	10	GigE	Mono	NE:62 μs-10 sec	Typ. 2.7 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA013-20GC	PYTHON1300	1/2"	4.8 μm	Global	1280 × 1024	90 fps	10	GigE	Color	NE:38 μs-10 sec	Typ. 2.7 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA016-10GM	IMX273	1/2.9"	3.45 μm	Global	1440 × 1080	78.2 fps	12	GigE	Mono	NE:1 μs-10 sec	Typ. 3 W@12 VDC	9-24 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA016-10GC	IMX273	1/2.9"	3.45 μm	Global	1440 × 1080	78.2 fps	12	GigE	Color	NE:1 μs-10 sec	Typ. 3 W@12 VDC	9-24 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA017-10GM	IMX432	1.1"	9 μm	Global	1608 × 1104	68.5 fps	12	GigE	Mono	USE:1 μs-5 μs NE:6 μs-10 sec	Typ. 4.2 W@12 VDC	12 VDC,PoE	0-50°C	C	44 mm × 29 mm × 59 mm	B
MV-CA017-10GC	IMX432	1.1"	9 μm	Global	1608 × 1104	68.5 fps	12	GigE	Color	USE:1 μs-5 μs NE:6 μs-10 sec	Typ. 4.8 W@12 VDC	12 VDC,PoE	0-50°C	C	44 mm × 29 mm × 59 mm	B
MV-CA020-10GM	IMX430	1/1.7"	4.5 μm	Global	1624 × 1240	60 fps	12	GigE	Mono	NE: 1 μs-10 sec	Typ. 3.27 W@12 VDC	9-24 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA020-10GC	IMX430	1/1.7"	4.5 μm	Global	1624 × 1240	60 fps	12	GigE	Color	NE: 1 μs-10 sec	Typ. 3.6 W@12 VDC	9-24 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA020-20GM	PYTHON2000	2/3"	4.8 μm	Global	1920 × 1200	52.7 fps	10	GigE	Mono	NE:59 μs-10 sec	Typ. 2.9 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA020-20GC	PYTHON2000	2/3"	4.8 μm	Global	1920 × 1200	52.7 fps	10	GigE	Color	NE:59 μs-10 sec	Typ. 2.9 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA023-10GM	IMX249	1/1.2"	5.86 μm	Global	1920 × 1200	41 fps	12	GigE	Mono	NE: 34 μs-10 sec	Typ. 2.9 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Bit depth	Data interface	Mono/Color	Exposure time	Power consumption	Power supply	Working temperature	Lens mount	Dimension	Label
MV-CA023-10GC	IMX249	1/1.2"	5.86 μm	Global	1920 × 1200	41 fps	12	GigE	Color	NE: 34 μs-10 sec	Typ. 3.1 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA032-10GM	IMX265	1/1.8"	3.45 μm	Global	2048 × 1536	37.5 fps	12	GigE	Mono	USE:1 μs-14 μs NE:15 μs-10 sec	Typ. 3.2 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA032-10GC	IMX265	1/1.8"	3.45 μm	Global	2048 × 1536	37.5 fps	12	GigE	Color	USE:1 μs-14 μs NE:15 μs-10 sec	Typ. 3.5 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA050-10GM	IMX264	2/3"	3.45 μm	Global	2448 × 2048	23.5 fps	12	GigE	Mono	USE:1 μs-14 μs NE:15 μs-10 sec	Typ. 3.1 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA050-12GC	IMX264	2/3"	3.45 μm	Global	2448 × 2048	24.1 fps	12	GigE	Color	USE:1 μs-14 μs NE:15 μs-10 sec	Typ. 3.2 W@12 VDC	9-24 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA050-20GM	PYTHON5000	1"	4.8 μm	Global	2592 × 2048	22 fps	10	GigE	Mono	NE: 65 μs-10 sec	Typ. 3.3 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA050-20GC	PYTHON5000	1"	4.8 μm	Global	2592 × 2048	22 fps	10	GigE	Color	NE: 65 μs-10 sec	Typ. 3.3 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA050-20GN	PYTHON5000	1"	4.8 μm	Global	2592 × 2048	22 fps	10	GigE	Near-infrared	NE: 65 μs-10 sec	Typ. 3.3 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA060-11GM	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	17 fps	12	GigE	Mono	NE: 27 μs-2.5 sec	Typ. 2.5 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A
MV-CA060-10GC	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	17 fps	12	GigE	Color	NE: 27 μs-2.5 sec	Typ. 3.5 W@12 VDC	12 VDC,PoE	0-50°C	C	29 mm × 29 mm × 42 mm	A

Notice: *USE:Ultra-short exposure mode
NE:Normal exposure mode

Dimension



CA Series USB3.0 Area Scan Camera

Key Features

- Based on the global shutter sensor, covering the needs of mainstream applications.
- USB 3.0 interface, support USB power supply, body screw holes improve installation stability.
- Compatible with USB3 Vision protocol and GenICam standard and seamless connection with third-party softwares.
- CE, FCC, RoHS, KC certification.



Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	ADC bit depth	Data interface	Mono/Color	Exposure time	Power consumption	Power supply	Working temperature	Lens mount	Dimension	Label
MV-CA003-21UM	PYTHON300	1/4"	4.8 μm	Global	640 × 480	814.5 fps	10	USB3.0	Mono	NE: 40 μs-10 sec	Typ. 3.3 W @5 VDC	12 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	A
MV-CA003-21UC	PYTHON300	1/4"	4.8 μm	Global	640 × 480	814.5 fps	10	USB3.0	Color	NE: 40 μs-10 sec	Typ. 3.3 W @5 VDC	12 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	A
MV-CA004-10UM	IMX287	1/2.9"	6.9 μm	Global	720 × 540	526.5 fps	8/12	USB3.0	Mono	USE:1 μs-14 μs NE:15 μs-10 sec	Typ. 3 W@5 VDC	9-24 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	B
MV-CA004-10UC	IMX287	1/2.9"	6.9 μm	Global	720 × 540	526.5 fps	8/12	USB3.0	Color	USE:1 μs-14 μs NE:15 μs-10 sec	Typ. 3 W@5 VDC	9-24 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	B
MV-CA013-21UM	PYTHON1300	1/2"	4.8 μm	Global	1280 × 1024	210 fps	10	USB3.0	Mono	NE: 65 μs-10 sec	Typ. 3 W @5 VDC	12 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	A
MV-CA013-21UC	PYTHON1300	1/2"	4.8 μm	Global	1280 × 1024	210 fps	10	USB3.0	Color	NE:40 μs-10 sec	Typ. 3 W @5 VDC	12 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	A
MV-CA016-10UM	IMX273	1/2.9"	3.45 μm	Global	1440 × 1080	249.1 fps	8/12	USB3.0	Mono	USE:1 μs-14 μs NE:15 μs-10 sec	Typ. 2.8 W @5 VDC	12 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	A
MV-CA016-10UC	IMX273	1/2.9"	3.45 μm	Global	1440 × 1080	249.1 fps	8/12	USB3.0	Color	USE:1 μs-14 μs NE:15 μs-10 sec	Typ. 2.8 W @5 VDC	12 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	A
MV-CA020-10UM	IMX430	1/1.7"	4.5 μm	Global	1624 × 1240	89.1 fps	12	USB3.0	Mono	NE: 1 μs-10 sec	Typ. 3.2 W@5 VDC	9-24 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	B
MV-CA020-10UC	IMX430	1/1.7"	4.5 μm	Global	1624 × 1240	89.1 fps	12	USB3.0	Color	NE: 1 μs-10 sec	Typ. 3.9 W@5 VDC	9-24 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	B
MV-CA023-10UM	IMX249	1/1.2"	5.86 μm	Global	1920 × 1200	40 fps	12	USB3.0	Mono	NE:34 μs-10 sec	Typ. 2.52 W@5 VDC	12 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	A
MV-CA023-10UC	IMX249	1/1.2"	5.86 μm	Global	1920 × 1200	41 fps	12	USB3.0	Color	NE:34 μs-10 sec	Typ. 2.52 W@5 VDC	12 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	A
MV-CA050-11UM	IMX264	2/3"	3.45 μm	Global	2448 × 2048	35.1 fps	12	USB3.0	Mono	USE:1 μs-14 μs NE:15 μs-10 sec	Typ. 2.8 W @5 VDC	12 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	A
MV-CA050-12UC*	IMX264	2/3"	3.45 μm	Global	2448 × 2048	60 fps	12	USB3.0	Color	USE:1 μs-14 μs NE:15 μs-10 sec	Typ. 3.3 W @5 VDC	9-24 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	B
MV-CA050-20UM	PYTHON5000	1"	4.8 μm	Global	2592 × 2048	71.8 fps	10	USB3.0	Mono	NE: 59 μs-10 sec	Typ. 3.5 W@5 VDC	12 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	A
MV-CA050-20UC	PYTHON5000	1"	4.8 μm	Global	2592 × 2048	71.8 fps	10	USB3.0	Color	NE: 59 μs-10 sec	Typ. 3.5 W@5 VDC	12 VDC, USB3.0	0-50°C	C	29 mm × 29 mm × 30 mm	A

Notice: * will be released soon.
 USE:Ultra-short exposure mode
 NE:Normal exposure mode

Dimension

