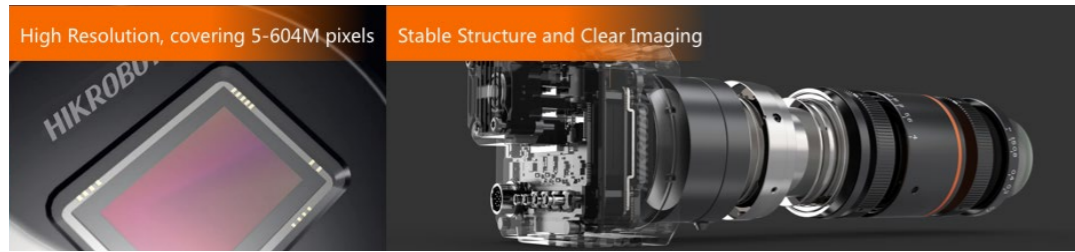
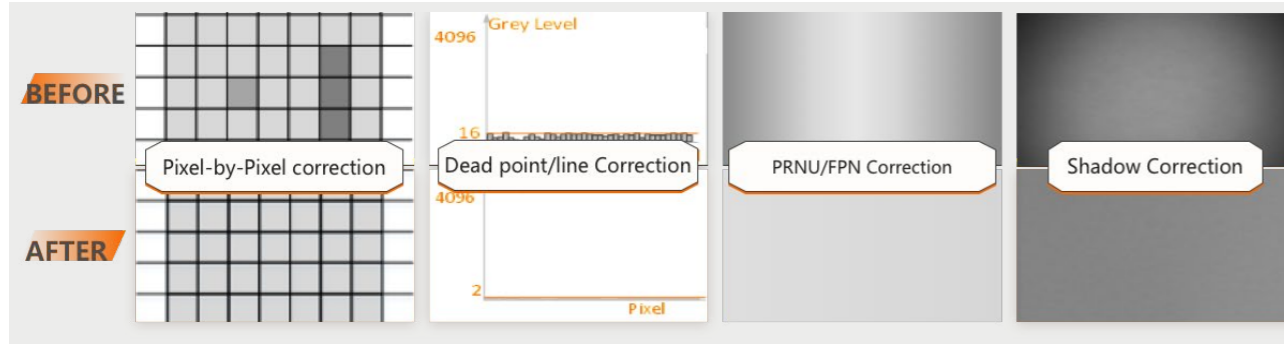


## CH Series Area Scan Camera

High-end product series designed for high-precision application and development in Panel, electronic semiconductor, new energy and other industries. which covers data interfaces of GigE, USB 3.0, 10 GigE, Camera Link, CoaXPress, XoFLink.



High-end area scan camera with high resolution coverage



Rich ISP algorithm

## CH Series GigE Area Scan Camera



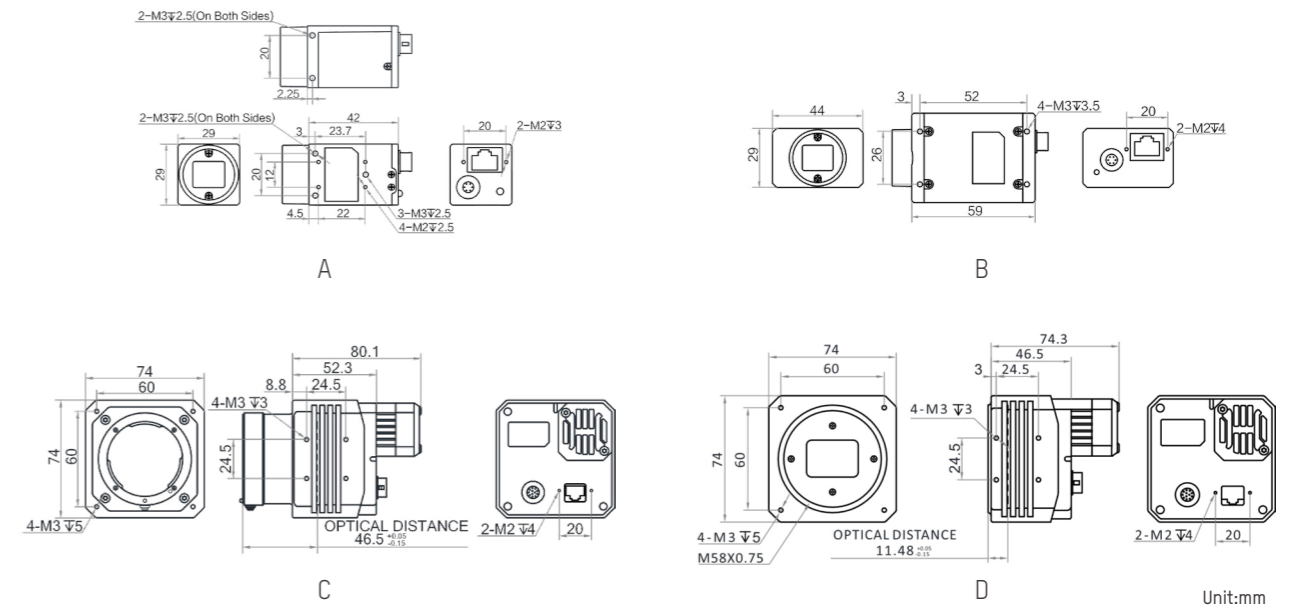
### Dimension

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH089-106M	IMX267	1"	3.45 μm	Global	4096 × 2160	13.7 fps	USE: 1 μs-14 μs NE: 15 μs-10 sec	Typ. 2.3 W@12 VDC	C	A
MV-CH089-106C	IMX267	1"	3.45 μm	Global	4096 × 2160	13.7 fps	USE: 1 μs-14 μs NE: 15 μs-10 sec	Typ. 2.4 W@12 VDC	C	A
MV-CH100-606M	HK	1"	3.45 μm	Global	4096 × 2460	12 fps	NE: 80 μs-10 sec	Typ. 3.1 W@12 VDC	C	B
MV-CH100-606C	HK	1"	3.45 μm	Global	4096 × 2460	12 fps	NE: 80 μs-10 sec	Typ. 3.5 W@12 VDC	C	B
MV-CH120-106M	IMX304	1.1"	3.45 μm	Global	4096 × 3000	9.4 fps	USE: 1 μs-14 μs NE: 15 μs-10 sec	Typ. 2.9 W@12 VDC	C	A
MV-CH120-106C	IMX304	1.1"	3.45 μm	Global	4096 × 3000	9.4 fps	USE: 1 μs-14 μs NE: 15 μs-10 sec	Typ. 3.0 W@12 VDC	C	A
MV-CH120-206M	XGS12000	1"	3.2 μm	Global	4096 × 3072	9.6 fps	USE: 52 μs-161 μs NE: 162 μs-10 sec	Typ. 2.6 W@12 VDC	C	A
MV-CH120-206C	XGS12000	1"	3.2 μm	Global	4096 × 3072	9.6 fps	USE: 52 μs-161 μs NE: 162 μs-10 sec	Typ. 2.7 W@12 VDC	C	A

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH123-106M *	IMX545	1/1.1"	2.74 μm	Global	4096 × 3000	9.5 fps	USE: 3 μs-33 μs NE: 36 μs-2 S	Typ. 2.9 W@12 VDC	C	A
MV-CH123-106C *	IMX545	1/1.1"	2.74 μm	Global	4096 × 3000	9.5 fps	USE: 3 μs-33 μs NE: 36 μs-2 S	Typ. 3.0 W@12 VDC	C	A
MV-CH140-606M	HK	1"	3 μm	Global	4708 × 2824	9 fps	NE: 80 μs-10 sec	Typ. 3.0 W@12 VDC	C	B
MV-CH140-606C	HK	1"	3 μm	Global	4708 × 2824	9 fps	NE: 80 μs-10 sec	Typ. 3.5 W@12 VDC	C	B
MV-CH160-606M	HK	1.1"	3.2 μm	Global	4000 × 4000	7.25 fps	NE: 12 μs-10 sec	Typ. 3.72 W@12 VDC	C	B
MV-CH250-906M	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	4.5 fps	NE: 12 μs-10 sec	Typ. 3.1 W@12 VDC	C	B
MV-CH250-906C	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	4.5 fps	NE: 12 μs-10 sec	Typ. 3.2 W@12 VDC	C	B
MV-CH250-906N	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	4.5 fps	NE: 12 μs-10 sec	Typ. 3.1 W@12 VDC	C	B
MV-CH310-106M	IMX342	22.3 mm × 16.7 mm	3.45 μm	Global	6464 × 4852	3.9 fps	USE: 3 μs-33 μs NE: 36 μs-2 Sec	Typ. 9 W@12 VDC	F M58	C D
MV-CH310-106C	IMX342	22.3 mm × 16.7 mm	3.45 μm	Global	6464 × 4852	3.9 fps	USE: 3 μs-33 μs NE: 36 μs-10 Sec	Typ. 9 W@12 VDC	F M58	C D

Notice: \* will be released soon, please consult details with sales representative  
 USE: Ultra-short exposure mode  
 NE: Normal exposure mode

### Dimension



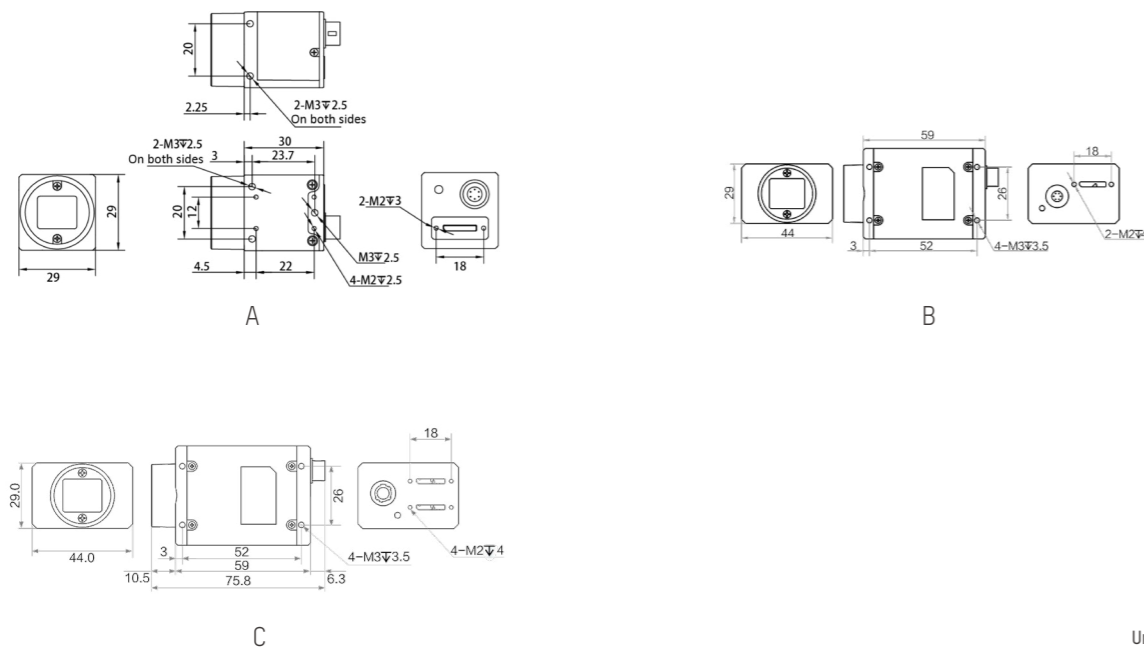
# CH Series USB3.0 Area Scan Camera

## Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH050-10UM	IMX250	2/3"	3.45 μm	Global	2448 × 2048	74.1 fps	USE: 1 μs-14 μs NE: 15 μs-10 sec	Typ. 3.3 W@5 VDC	C	A
MV-CH050-10UC	IMX250	2/3"	3.45 μm	Global	2448 × 2048	74.1 fps	USE: 1 μs-14 μs NE: 15 μs-10 sec	Typ. 2.8 W@5 VDC	C	A
MV-CH050-10UP	IMX250	2/3"	3.45 μm	Global	2448 × 2048	74.1 fps	USE: 1 μs-14 μs NE: 15 μs-10 sec	Typ. 3.3 W@5 VDC	C	A
MV-CH089-10UM	IMX267	1"	3.45 μm	Global	4096 × 2160	32 fps	USE: 1 μs-14 μs NE: 15 μs-10 sec	Typ. 3.27 W@5 VDC	C	B
MV-CH089-10UC	IMX267	1"	3.45 μm	Global	4096 × 2160	32 fps	USE: 1 μs-14 μs NE: 15 μs-10 sec	Typ. 3.27 W@5 VDC	C	B
MV-CH120-10UM	IMX304	1.1"	3.45 μm	Global	4096 × 3000	30.5 fps	USE: 1 μs-14 μs NE: 15 μs-10 sec	Typ. 2.9 W@5 VDC	C	A
MV-CH120-10UC	IMX304	1.1"	3.45 μm	Global	4096 × 3000	30.5 fps	USE: 1 μs-14 μs NE: 15 μs-10 sec	Typ. 2.9 W@5 VDC	C	A
MV-CH120-20UM	XGS12000	1"	3.2 μm	Global	4096 × 3072	28 fps	USE: 52 μs-161 μs NE: 162 μs-10 sec	Typ. 2.9 W@5 VDC	C	A
MV-CH120-20UC	XGS12000	1"	3.2 μm	Global	4096 × 3072	28 fps	USE: 10 μs-56 μs NE: 57 μs-10 sec	Typ. 3.2 W@5 VDC	C	A
MV-CH123-10UM *	IMX545	1/1.1"	2.74 μm	Global	4096 × 3000	28 fps	USE: 3 μs-33 μs NE: 36 μs-2 sec	Typ. 3.5 W@5 VDC	C	A
MV-CH123-10UC *	IMX545	1/1.1"	2.74 μm	Global	4096 × 3000	28 fps	USE: 3 μs-33 μs NE: 36 μs-2 sec	Typ. 3.5 W@5 VDC	C	A
MV-CH250-90UM	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	14 fps	NE: 12 μs-10 sec	Typ. 3.6 W@5 VDC	C	B
MV-CH250-90UC	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	14 fps	NE: 12 μs-10 sec	Typ. 3.6 W@5 VDC	C	B
MV-CH250-90VM *	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	30 fps	NE: 12 μs-10 sec	Typ. 4.5 W@5 VDC	C	C

Notice: \* will be released soon, please consult details with sales representative  
P=Polarization  
USE: Ultra-short exposure mode  
NE: Normal exposure mode

## Dimension



Unit:mm

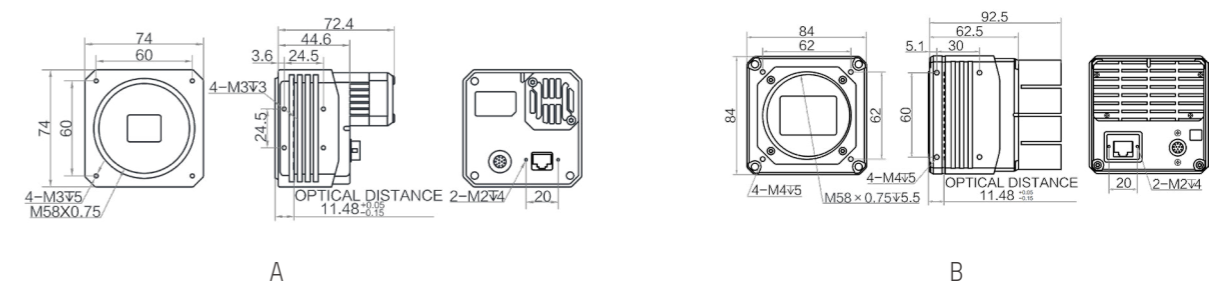
# CH Series 10GigE Area Scan Camera

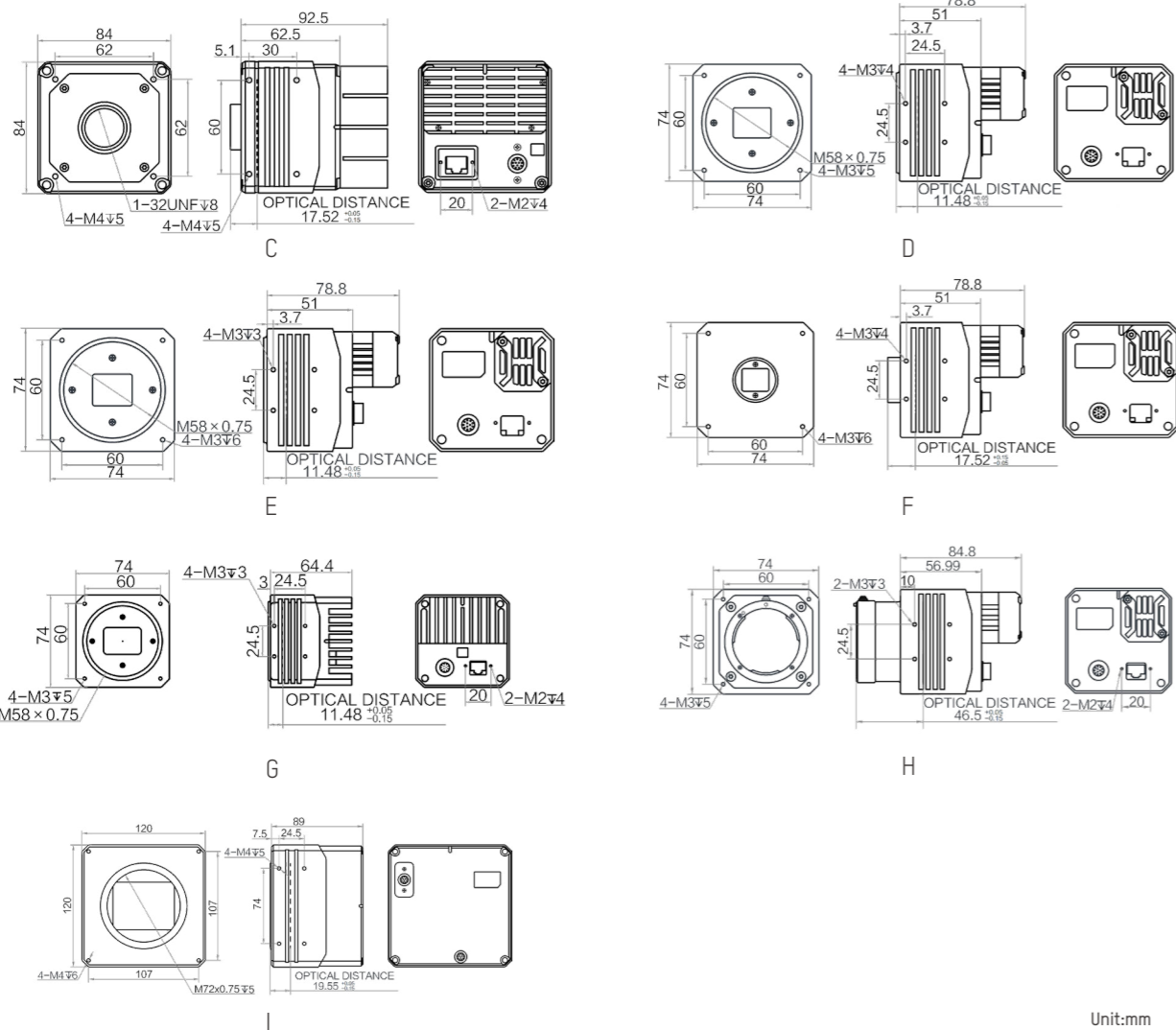
## Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH120-15TM	IMX253	1.1"	3.45 μm	Global	4096 × 3000	68.3 fps	USE: 2 μs-14 μs NE: 15 μs-10 sec	Typ. 9.6 W@24 VDC	M58	A
MV-CH120-15TC	IMX253	1.1"	3.45 μm	Global	4096 × 3000	68.3 fps	USE: 2 μs-14 μs NE: 15 μs-10 sec	Typ. 10.1 W@24 VDC	M58	A
MV-CH240-10TM	IMX540	1.2"	2.74 μm	Global	5328 × 4600	35.1 fps	USE: 1 μs-7 μs NE: 8 μs-10 sec	Typ. 10 W@12 VDC	M58 C	B C
MV-CH250-60TM	HK	23 mm × 23 mm	4.5 μm	Global	5120 × 5120	31.7 fps	NE: 15 μs-10 sec	Typ. 15.1W@12 VDC	M58	D
MV-CH250-90TM	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	41.5 fps	NE: 13 μs to 10 sec	Typ. 9.7 W@12 VDC	M58 C	E F
MV-CH250-90TC	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	41.5 fps	NE: 13 μs to 10 sec	Typ. 9.7 W@12 VDC	M58 C	E F
MV-CH310-10TM	IMX342	22.3 mm × 16.7 mm	3.45 μm	Global	6464 × 4852	17.2 fps	NE: 4 μs-10 sec	Typ. 11.5 W@12 VDC	M58	G
MV-CH310-10TC	IMX342	22.3 mm × 16.7 mm	3.45 μm	Global	6464 × 4852	17.2 fps	NE: 4 μs-10 sec	Typ. 11.5 W@12 VDC	M58	G
MV-CH500-90TM	GMAX	22.4 mm × 22.4 mm	3.2 μm	Global	7008 × 7000	15.5 fps	NE: 15 μs-10 sec	Typ. 11 W@12 VDC	M58	D
MV-CH500-90TC	GMAX	22.4 mm × 22.4 mm	3.2 μm	Global	7008 × 7000	15.5 fps	NE: 15 μs-10 sec	Typ. 12 W@12 VDC	M58	D
MV-CH650-90TM	GMAX3265	29.9 mm × 22.4 mm	3.2 μm	Global	9344 × 7000	17.2 fps	NE: 18 μs-10 sec	Typ. 10.2 W@12 VDC	M58 F	D H
MV-CH650-90TC	GMAX3265	29.9 mm × 22.4 mm	3.2 μm	Global	9344 × 7000	17.2 fps	NE: 18 μs-10 sec	Typ. 11.6 W@12 VDC	M58 F	D H
MV-CH1030-90TM *	GMAX32103	36.1 mm × 29.4 mm	3.2 μm	Global	11276 × 9200	10fps	15 μs-10 sec	Typ. 15 W@12 VDC	M58	B
MV-CH1030-90TMC *	GMAX32103	36.1 mm × 29.4 mm	3.2 μm	Global	11276 × 9200	10fps	15 μs-10 sec	Typ. 15 W@12 VDC	M58	B
MV-CH1510-10FM	IMX411	66.7 mm	3.76 μm	Rolling	14208 × 10640	6.2 fps	NE: 30 μs-10 sec	TEC off: Typ. 11.3 W @24 VDC TEC on: Typ. 49 W @24 VDC	M72	I

Notice: \* will be released soon, please consult details with sales representative  
USE: Ultra-short exposure mode  
NE: Normal exposure mode

## Dimension





Unit:mm

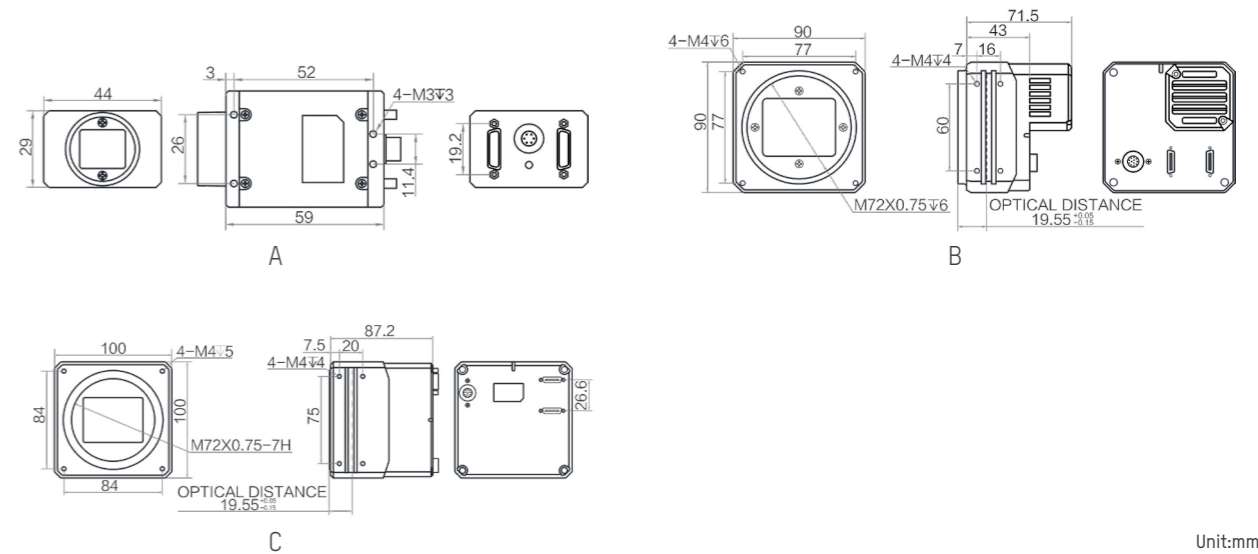
## CH Series Camera Link Area Scan Camera

### Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH040-A0CM	HK	1"	5.5µm	Global	2048 × 2048	180 fps	NE: 34 µs-10 sec	Typ. 3.5 W@12 VDC	C	A
MV-CH050-10CM	IMX250	2/3"	3.45 µm	Global	2432 × 2048	140 fps	NE: 15 µs-10 sec	Typ. 3.3 W@12 VDC	C	A
MV-CH050-10CC	IMX250	2/3"	3.45 µm	Global	2432 × 2048	140 fps	NE: 15 µs-10 sec	Typ. 3.41 W@12 VDC	C	A
MV-CH050-11CM	IMX264	2/3"	3.45 µm	Global	2448 × 2048	35 fps	NE: 15 µs-10 sec	Typ. 3.25 W@12 VDC	C	A
MV-CH120-10CM	IMX253	1.1"	3.45 µm	Global	3840 × 3000	69.8 fps	NE: 1 µs-10 sec	Typ. 4.51 W@12 VDC	C	A
MV-CH120-10CC	IMX253	1.1"	3.45 µm	Global	3840 × 3000	68.1 fps	NE: 1 µs-10 sec	Typ. 4.5 W@12 VDC	C	A
MV-CH120-11CM	IMX304	1.1"	3.45 µm	Global	4096 × 3000	23.4 fps	USE: 1 µs-14 sec NE: 15 µs-10 sec	Typ. 3.48 W@12 VDC	C	A
								Typ. 14 W@24 VDC		B
MV-CH1010-10CM	IMX461	55 mm	3.76 µm	Rolling	11648 × 8740	8.1 fps	NE: 14µs-10 sec	TEC off: Typ. 14 W@24 VDC TEC on: Typ. 48 W@24 VDC	M72	C
MV-CH1010-10CC	IMX461	55 mm	3.76 µm	Rolling	11648 × 8740	8.1 fps	NE: 14µs-10 sec	TEC off: Typ. 14 W@24 VDC TEC on: Typ. 48 W@24 VDC	M72	C

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

## Dimension



Unit:mm

## CH Series CoaXPress Area Scan Camera



### Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH050-90XM	GMAX2505	1/2"	2.5 µm	Global	2592 × 2160	213 fps	5 µs-10 sec	Typ. 5.3 W@12 VDC	C	A
MV-CH120-40XM	CMV12000	22.5 mm × 16.9 mm	5.5µm	Global	4096 × 3072	188 fps	34 µs-10 sec	Typ. 10 W@12 VDC	M58	B
MV-CH210-90YM	Gsprint 4521	23.04 mm × 18.43 mm	4.5 µm	Global	5120 × 4096	222 fps	4 µs-10 sec	Typ. 18 W@24 VDC	M58	C
MV-CH210-90YC	Gsprint 4521	23.04 mm × 18.43 mm	4.5 µm	Global	5120 × 4096	222 fps	4 µs-10 sec	Typ. 16.3 W@24 VDC	M58	C
MV-CH250-90XM	GMAX0505	1.1"	2.5 µm	Global	5120 × 5120	41.5 fps	13 µs-10 sec	Typ. 7.0 W@12 VDC	C	A
MV-CH250-90YM	GMAX0505	1.1"	2.5 µm	Global	5120 × 5120	150 fps	13 µs-10 sec	Typ. 13.7 W@12 VDC	M58 C	D E
MV-CH250-90YM V2.0	GMAX0505	1.1"	2.5 µm	Global	5120 × 5120	150 fps	USE: 3 µs-8 sec NE: 10 µs-10 sec	Typ. 9.9 W@12 VDC	M58	B
MV-CH250-90YC	GMAX0505	1.1"	2.5 µm	Global	5120 × 5120	150 fps	13 µs-10 sec	Typ. 13.7 W@12 VDC	M58 C	D E
MV-CH500-90XM	GMAX	22.4 mm × 22.4 mm	3.2 µm	Global	7008 × 7000	31.5 fps	14 µs-10 sec	Typ. 10.5 W@12 VDC	M58	F
MV-CH500-90YM	GMAX	22.4 mm × 22.4 mm	3.2 µm	Global	7008 × 7000	71 fps	14 µs-10 sec	Typ. 13 W@12 VDC	M58	B
MV-CH650-90XM	GMAX3265	29.9 mm × 22.4 mm	3.2 µm	Global	9344 × 7000	31.5 fps	14 µs-10 sec	Typ. 10.5 W@12 VDC	M58 F	F G
MV-CH650-90XC	GMAX3265	29.9 mm × 22.4 mm	3.2 µm	Global	9344 × 7000	31.5 fps	14 µs-10 sec	Typ. 10.5 W@12 VDC	M58 F	F G
MV-CH650-90YM	GMAX3265	29.9 mm × 22.4 mm	3.2 µm	Global	9344 × 7000	71 fps	15 µs-10 sec	Typ. 13.0 W@12 VDC	M58	C



