

# mvBlueCOUGAR-X



## Technical Details

### Sensors

mvBlueCOUGAR-X		Resolution (H x V pixels)	Sensor size (optical)	Pixel size (µm)	Frame rate	Sensor technology	Readout type	ADC resolution / output in bits	Sensor
-120a	G/C	640 x 480	1/3"	7.4 x 7.4	104	CCD	Global	14 → 14/12/8	Sony ICX424
-120b <sup>3</sup>	G/C	640 x 480	1/2"	9.9 x 9.9	104	CCD	Global	14 → 14/12/8	Sony ICX414
-120d	G/C	776 x 580	1/2"	8.3 x 8.3	87	CCD	Global	14 → 14/12/8	Sony ICX415
-100w <sup>1</sup>	G/C	752 x 480	1/3"	6 x 6	117	CMOS	Global	10 → 12/10/8	Aptina MT9V
-122 <sup>3</sup>	G/C	1280 x 960	1/3"	3.75 x 3.75	31	CCD	Global	14 → 14/12/8	Sony ICX445
-102b	G/C	1280 x 960	1/3"	3.75 x 3.75	40.6	CMOS	Global	10 → 12/10/8	Aptina MT9M
-102d <sup>1</sup>	G/C	1280 x 960	1/3"	3.75 x 3.75	40.6	CMOS	Rolling	10 → 12/10/8	Aptina MT9M
-102e <sup>2,3</sup>	G/C	1280 x 1024	1/1.8"	5.3 x 5.3	60	CMOS	Global	10 → 10/8	E2V EV76C560
-123	G/C	1360 x 1024	1/2"	4.65 x 4.65	30	CCD	Global	14 → 14/12/8	Sony ICX267
-104	G/C	2048 x 1088	2/3"	5.5 x 5.5	34.8	CMOS	Global	10 → 10/8	CMOSIS CMV2000
-104b	G/C	2048 x 2048	1"	5.5 x 5.5	18.5	CMOS	Global	10 → 10/8	CMOSIS CMV4000
-104e <sup>3</sup>	G/C	1600 x 1200	1/1.8"	4.5 x 4.5	41.4	CMOS	Global	10 → 10/8	E2V EV76C570
-104f	G/C	1936 x 1216	1/1.2"	5.86 x 5.86	41	CMOS	Global	12 → 16/12/8	Sony IMX249
-124 <sup>3</sup>	G/C	1600 x 1200	1/1.8"	4.4 x 4.4	28	CCD	Global	14 → 14/12/8	Sony ICX274
-125a <sup>3</sup>	G/C	2448 x 2050	2/3"	3.45 x 3.45	10	CCD	Global	14 → 14/12/8	Sony ICX655
-225 <sup>3</sup>	G/C	2448 x 2050	2/3"	3.45 x 3.45	16	CCD	Global	14 → 14/12/8	Sony ICX625
-105	G/C	2592 x 1944	1/2.5"	2.2 x 2.2	14.4	CMOS	Global Reset	12 → 12/10/8	Aptina MT9P
-1010	G/C	3856 x 2764	1/2.3"	1.67 x 1.67	8.7	CMOS	Global Reset	12 → 12/10/8	Aptina MT9J

<sup>1</sup> High Dynamic Range (HDR) mode supported

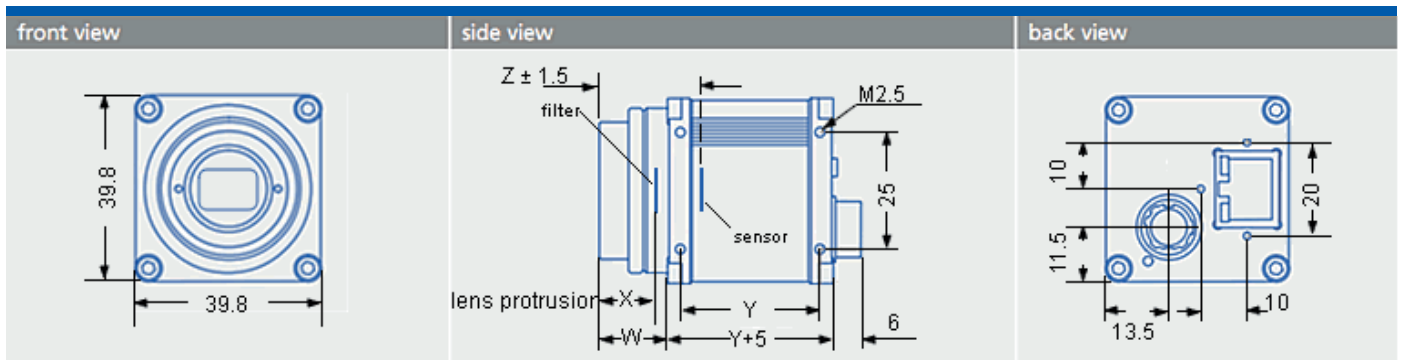
<sup>2</sup> Infrared enhanced model -102eGE also available

<sup>3</sup> Extended temperature range from -40°C up to max. 65°C

## Hardware Features

Protocol	Compliant to GigE Vision		
Interface	Gigabit Ethernet (1000 Mbit/s with 100 Mbit/s compatibility)		
Image formats	Mono8, Mono12, Mono14, Mono16, Mono12Packed BayerGR8, BayerGR10, BayerGR12, BayerGR16, BayerGR12Packed (GR, RG, GB, BG depends on camera type) RGB8Packed, BGR8Packed, BGRA8Packed, BGR10V2Packed, YUV422Packed, YUV422_YUYVPacked, YUV444Packed		
Triggers	External, software based or free run		
Size of body (W x H x L)   Weight w/o lens	39.8 x 39.8 x Y + 5 mm   approx. 110 g		
Permissible ambient temperature	Operation:	0 .. 45 °C (-40 .. 65 °C as an option) / 30 to 80 % RH	
	Storage:	-20 .. 60 °C / 20 to 90 % RH	
Lens mounts	Back focus adjustable C/CS-mount lens holder / C-mount, CS-mount or optional S-mount		
Digital I/Os	Standard   PoE option:	2 opto-isolated inputs / 4 high-side outputs   2 opto-isolated inputs / 2 opto-isolated outputs	
Conformity	CE, FCC, RoHS, IP40, on request: UL, IP67		
Driver	mvIMPACT Acquire SDK or any GigE Vision compliant interface		
Operating systems	Windows®, Linux® - 32 bit and 64 bit		
Special features	Frame average, enhanced color and I/O functionality, PoE, automatic gain / exposure control, binning, PLC inputs, pre-trigger recording, internal temperature sensors, FFC, screw lock connectors, video iris		

## Dimensions Standard Version (in mm)



W = approx. 15 | 10    Y = 32 (CMOSIS), 30  
X = 6 .. 8                Z = 12.5 | 17.526

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