

mvBlueCOUGAR-XD

Technical Details



Sensors

mvBlueCOUGAR-XD		Resolution (H x V pixels)	Sensor size (optical)	Pixel size (µm)	Frame rate	Sensor technology	Readout type	ADC resolution / output in bits	Sensor
-124a	G/C	1936 x 1460	2/3"	4.54 x 4.54	64.5	CCD	Global	14 → 8..16	Sony ICX674
-104	G/C	2048 x 1088	2/3"	5.5 x 5.5	270 / 107 ¹	CMOS	Global	10 → 16/12/8	CMOSIS CMV2000
-104a12 ²	G	2048 x 1088	2/3"	5.5 x 5.5	270 / 107 ¹	CMOS	Global	12 → 16/12/8	CMOSIS CMV2000
-204	G/C	2048 x 1088	2/3"	5.5 x 5.5	52	CMOS	Global	12 → 16/12/8	CMOSIS CMV2000
-104b	G/C	2048 x 2048	1"	5.5 x 5.5	140 / 58 ¹	CMOS	Global	10 → 16/12/8	CMOSIS CMV4000
-204b	G/C	2048 x 2048	1"	5.5 x 5.5	27	CMOS	Global	12 → 16/12/8	CMOSIS CMV4000
-104d	G/C	1936 x 1216	1/1.2"	5.86 x 5.86	164 / 105 ¹	CMOS	Global	12 → 16/12/8	Sony IMX174
-104h ³	G/C	2448 x 2048	1/1.8"	3.45 x 3.45	76	CMOS	Global	12 → 16/12/8	Sony IMX252
-105a ³	G/C	2448 x 2048	2/3"	3.45 x 3.45	48	CMOS	Global	12 → 16/12/8	Sony IMX250
-126	G/C	2752 x 2208	1"	4.54 x 4.54	31	CCD	Global	14 → 8..16	Sony ICX694
-126a	G/C	2752 x 2208	1"	4.54 x 4.54	14	CCD	Global	14 → 8..16	Sony ICX695
-129	G/C	3384 x 2712	1"	3.7 x 3.7	22.2	CCD	Global	14 → 8..16	Sony ICX814
-129a	G/C	3384 x 2712	1"	3.7 x 3.7	9.5	CCD	Global	14 → 8..16	Sony ICX815
-1212	G/C	4250 x 2838	1"	3.1 x 3.1	15	CCD	Global	14 → 8..16	Sony ICX834

¹into memory / streaming

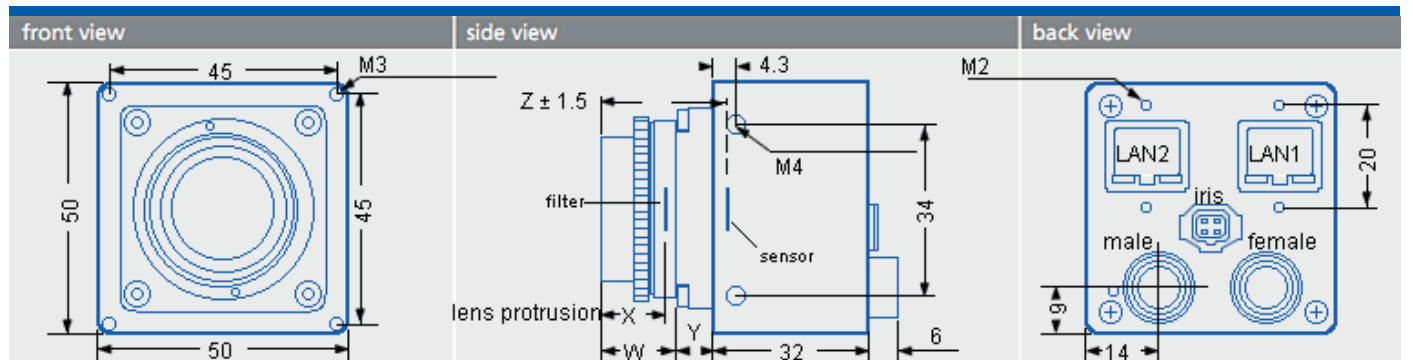
² NIR enhanced & anti-reflective glass

³ Sample Q3/2015, Series Q1/2016

Hardware Features

Protocol	Compliant to GigE Vision
Interface	Dual Gigabit Ethernet (2x 1000 Mbit/s with 100 Mbit/s compatibility) or Single Gigabit Ethernet
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	50 x 50 x 32 mm approx. 200 g
Permissible ambient temperature	Operation: 0 .. 45 °C / 30 to 80 % RH (-XD1212C: 0 .. 35 °C) Storage: -20 .. 60 °C / 20 to 90 % RH
Lens mounts	Back focus adjustable C/CS-mount lens holder
Digital I/Os	4 opto-isolated inputs / 4 high-side outputs
Image memory	256 MB
Conformity	CE, FCC, RoHS
Driver	mvIMPACT Acquire SDK or any GigE Vision compliant interface
Operating systems	Windows®, Linux® - 32 bit and 64 bit
Special features	Enhanced color and I/O functionality, automatic gain / exposure control, binning, burst mode, video iris, lens control, pre-trigger recording, internal temperature sensors, screw lock connectors

Dimensions (in mm)



W = approx. 15 | 10 Y = 5 .. 11
X = 6 .. 8 Z = 12.5 | 17.526

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