

BVS CA-GX2-xxxxxx-(1)(2)(3)(4)(5)(6)-001

BVS CA-GX2-xxxxxx-(1)(2)(3)(4)(5)(6)-001 /
mvBlueCOUGAR-XD
Dual-GigE Vision industrial camera

xxxxxx Model
See table below

(1) Handling
1 = standard handling

(2) Lensholder
1 = C-Mount, Type2, with high durability and factory-set backfocus, fixed square filter
2 = C-Mount, Type1, with adjustable backfocus, round filter with screw ring, Ø23.2 mm
5 = C-Mount, Type3 (low cost, factory-set backfocus, Ø23.2 mm Filter)
N = M42x1 mount, 12mm factory-set backfocus, fixed square filter
P = M42x1 mount, 45.5mm factory-set backfocus, fixed square filter
Q = F-Mount, 46mm factory-set backfocus, fixed square filter
T = TFL mount, 17.5 mm factory-set backfocus, fixed square filter

(3) Filter
0 = without filter
1 = IR-Cut
2 = glass filter
More filters on request

(4) Housing
1 = standard housing, black with logo, aluminium

(5) I/O
2 = standard I/Os

(6) Software
0 = none

Model name	Matrix Vision model name	Resolution	FPS*	Sensor	Pixel size	Power**
BVS CA-GX2-	mvBlueCOUGAR-XD					
0016ZG/C	102fG/C	1.6 MP (1456 x 1088)	226.5/149.9	IMX273 (1/2.9", GS, CMOS)	3.45 µm	5.0 W
0024ZG/C	104dG/C	2.4 MP (1936 x 1216)	164/100.8	IMX174 (1/1.2", GS, CMOS)	5.86 µm	5.0 W
0032ZG/C	104hG/C	3.2 MP (2064 x 1544)	123/74.5	IMX252 (1/1.8", GS, CMOS)	3.45 µm	5.5 W
0051ZG/C	105aG/C	5.1 MP (2464 x 2056)	80/46.8	IMX250 (2/3", GS, CMOS)	3.45 µm	5.5 W
0051DG/C	105dG/C	5.1 MP (2472 x 2064)	74.0/46.5	IMX547 (1/1.8", GS, CMOS)	2.74 µm	4.8 W
0071ZG/C	107G/C	7.1 MP (3216 x 2208)	50.6/33.4	IMX420 (1.1", GS, CMOS)	4.5 µm	6.3 W
0071AG/C	107bG/C	7.1 MP (3216 x 2208)	50.9/33.4	IMX428 (1.1", GS, CMOS)	4.5 µm	6.0 W
0081AG/C	108aG/C	8.1 MP (2856 x 2848)	48.0/29.1	IMX546 (2/3", GS, CMOS)	2.74 µm	4.9 W
0089AG/C	109bG/C	8.9 MP (4096 x 2176)	31.9/26.6	IMX267 (1", GS, CMOS)	3.45 µm	5.8 W
0124AG/C	1012bG/C	12.3 MP (4096 x 3008)	23/19.2	IMX304 (1.1", GS, CMOS)	3.45 µm	5.8 W
0124DG/C	1012dG/C	12.4 MP (4128 x 3008)	33.0/19.1	IMX545 (1/1.1", GS, CMOS)	2.74 µm	5.0 W
0162AG/C	1016G/C	16.2 MP (5328 x 3040)	26.3/14.6	IMX542 (1.1", GS, CMOS)	2.74 µm	4.7 W
0204AG/C	1020aG/C	20.4 MP (4512 x 4512)	20.9/11.6	IMX541 (1.1", GS, CMOS)	2.74 µm	4.9 W
0246AG/C	1025G/C	24.6 MP (5328 x 4608)	17.6/9.6	IMX540 (1.2", GS, CMOS)	2.74 µm	5.3 W
0315ZG/C	1031G/C	31.5 MP (6480 x 4856)	12.1/7.5	IMX342 (APS-C, GS, CMOS)	3.45 µm	6.8 W

G/C = Mono and color available
 FPS = Frames per Second
 GS = Global Shutter
 RS = Rolling Shutter
 * = Burst Mode/Streaming
 ** = Typical value

Basic features

Standards	EMVA 1288 GigE Vision GenICam
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Electrical connection

Connection 1	GigE-Bus: RJ45-Female, 8-pin
Connection 2	GigE-Bus: RJ45-Female, 8-pin
Connection 3	Power/ IO: HIROSE-Male, 12-pin
Connection 4	Lens control / IO: HIROSE-Female, 12-pin
Connection 5	Video iris: Jack plug, 4-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Current draw peak	1 A
Operating voltage U_B	10...28 VDC
Ripple max. (% of U_e)	5 %

Environmental conditions

Ambient temperature	0...45 °C
EN 60068-2-27, Shock	-
EN 60068-2-6, Vibration	-
IP rating	IP30
Relative humidity	20...80%
Storage temperature	-20...60 °C

Remarks

Not included in scope of delivery: Camera lens, filter, light, connection cable, power supply

* Refer to manual for exact values

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Functional Characteristics

Binning	1x1...16x16 *
Data storage	256 MB
Decimation	1x1...16x16 *
Exposure time	10 µs...20 s *
Filter	IR cut filter, other filters on request
Image formats	Mono8...Mono16 Bayer8...Bayer16, RGB, YUV *
Trigger Modi	Free run Hardware trigger Software trigger

Interface

Digital inputs	4x PNP galvanically isolated
Digital outputs	4x PNP high side
Interface	2 x Gigabit Ethernet
Switching function	normally open (NO)

Material

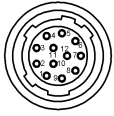
Housing material	Aluminium, Powder coated
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Mechanical data

Lens mount	C-Mount
Weight	170 g

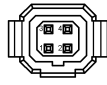
Connector Diagram

Lens Control / IO



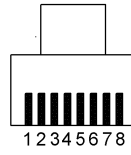
- PIN 1: Opto DigIn2
- PIN 2: Opto DigIn_GND
- PIN 3: Opto DigIn3
- PIN 4: Focus+
- PIN 5: Focus-
- PIN 6: Zoom+
- PIN 7: Zoom-
- PIN 8: Iris+
- PIN 9: Iris-
- PIN10: Channel4+
- PIN11: Channel4-
- PIN12: GND

Video iris



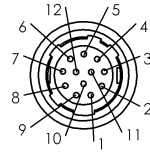
- PIN 1: IRIS_PWR_IN
- PIN 2: not used
- PIN 3: IRIS_CTRL
- PIN 4: GND

RJ45



- PIN 1: BL_DA+
- PIN 2: BL_DA-
- PIN 3: BL_DB+
- PIN 4: BL_DC+
- PIN 5: BL_DC-
- PIN 6: BL_DB-
- PIN 7: BL_DD+
- PIN 8: BL_DD-

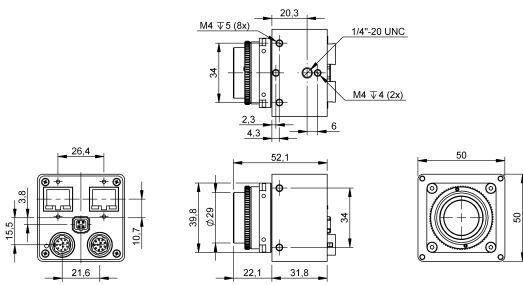
Power / IO



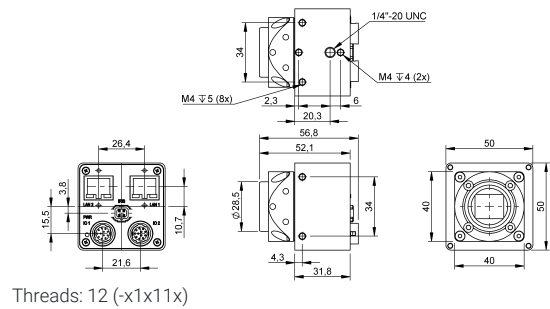
- PIN 1: GND
- PIN 2: PWR_IN
- PIN 3: DigOut3
- PIN 4: Opto DigIn0
- PIN 5: DigOut2
- PIN 6: DigOut0
- PIN 7: Opto DigIn_GND
- PIN 8: RS232 RX
- PIN 9: RS232 TX
- PIN10: DigOut_PWR_IN
- PIN11: Opto DigIn1
- PIN12: DigOut1

Product View

BVS_CA-GX2-xxxxxx-x2x11x



BVS_CA-GX2-xxxxxx-x1x11x / -x5x11x



BVS_CA-GX2-xxxxxx-xNx11x

