

1) Tightening torque



Basic features

Approval/Conformity	CE ULus EAC WEEE
Chroma	Color
Frame rate	max. 35.6 fps
Image resolution	5.1 MP (2464 x 2056 pixels)
Pixel size	3.45 x 3.45 μm
Sensor chip	Sony IMX264
Sensor type Vision	2/3" global shutter CMOS
Standards	GenICam EMVA 1288
Version	USB3 Vision industrial camera

Environmental conditions

Ambient temperature	0...45 °C
IP rating	IP30
Relative humidity	20...80%
Storage temperature	-20...60 °C

Electrical connection

Connection 1	USB3: MicroB-Female, 9-pin
Connection 2	Power / IO: HIROSE-Male, 12-pin
Polarity reversal protected	yes
Short-circuit protection	no

Electrical data

Current draw max.	500 mA
Operating voltage U_b	11...25 VDC

Machine Vision
BVS CA-SF2-0051AC-111121-XAS2
Order Code: BVS003J



Functional Characteristics

Binning	1x1, 2x2, 4x4, 8x8, 16x16
Data storage	256 MB
Decimation	1x1, 2x2, 4x4, 8x8, 16x16
Exposure time	20 µs...20 s
Filter	IR cut filter
Image formats	BayerRG8 BayerRG10 BayerRG12 BayerRG16 RGB8Packed BGR8Packed BGRA8Packed BGR10V2Packed YUV422Packed YUV422_YUYVPacked YUV444Packed RGB8 BGR8 BGRa8 RGB10p32 YUV422_8_UYVY YUV422_8 YUV8_UYV YUV411_8_UYYVYY BayerRG12p

MTTF (40 °C)	11.7 a
Trigger mode	Free run Hardware trigger Software trigger

Material

Housing material	Aluminum, Powder coated, Painted
Housing material, surface protection	Powder coated Painted

Mechanical data

Dimension	40 x 40 x 50.9 mm
Lens mount	C-Mount
Weight	110 g

Output/Interface

Auxiliary interfaces	RS232
Digital inputs	2x PNP galvanically isolated
Digital outputs	4x PNP galvanically isolated
Interface	USB 2.0 / 3.0

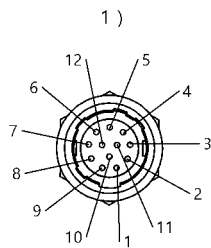
Remarks

Not included in the scope of delivery: camera lens, filter, light, connection cable – see www.balluff.com

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.

Connector Drawings



- 2) I/O
- 1 — GND
 - 2 — PWR_IN
 - 3 — Opto DigOut3
 - 4 — Opto DigIn0
 - 5 — Opto DigOut2
 - 6 — Opto DigOut0
 - 7 — Opto DigIn_GND
 - 8 — RS232 RX
 - 9 — RS232 TX
 - 10 — DigOut_PWR_IN
 - 11 — Opto DigIn1
 - 12 — Opto DigOut1

- 1) View towards connector
- 2) Male 12-pin/ Function