

1) Tightening torque



Basic features

Approval/Conformity	CE ULus EAC WEEE
Chroma	Monochrome
Frame rate	max. 23.2 fps
Image resolution	12.4 MP (4112 x 3008 pixels)
Pixel size	3.45 x 3.45 µm
Sensor chip	Sony IMX304
Sensor type Vision	1.1" global shutter CMOS
Standards	GenICam EMVA 1288
Version	USB3 Vision industrial camera

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 Ub	11...25 VDC

Environmental conditions

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

Functional Characteristics

Binning	1x1, 2x2, 4x4, 8x8, 16x16
Data storage	256 MB
Decimation	1x1, 2x2, 4x4, 8x8, 16x16
Exposure time	10 µs...20 s
Filter	Cover glass
Image formats	Mono8 Mono10 Mono12 Mono14 Mono16 Mono12p
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

Machine Vision
BVS CA-SF2-0124AG-112121-XAS2
Order Code: BVS003E



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

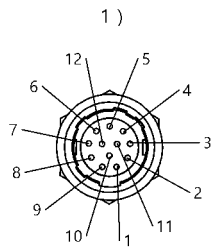
Remarks

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