

1) Tightening torque



Basic features

Approval/Conformity	CE ULus EAC WEEE
Chroma	Monochrome
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

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	20 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-SF2-0051AG-112121-XAS2
Order Code: BVS003H



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

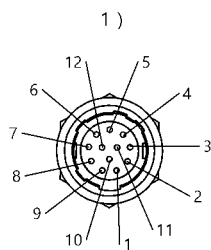
Remarks

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