

Technical specifications

Product type	Digital high speed camera
Image Sensor	CMOS APS Sensor
Image Sensor	Monochrome or color (with Bayer pattern)
Pixel size	14 µm
Dynamic range	8 bit
Sensitivity	ISO 3200 (monochrome), ISO 1600 (color)
Image Resolution	1280 x 1024 pixels 640 x 480 pixels (reduced)
Image size	1280 x 1024: 17.92 x 14.33 mm (approx. 1" image size) 640 x 480: 8.96 x 6.72 mm (approx. 3/8" image size)
Frame rate	500 fps @ 1280 x 1024 or 640 x 480 pixels
Max. frame rate	500 fps
ROI	1280 x 1024 or 640 x 480 pixels, centered
Shutter type	Global electronic shutter
Shutter exposure times	4 µsec to 1/frame rate

Image memory	Built-in, DRAM
Standard capacity	1.3 GB
Optional	2.6, 5.2 GB
Memory upgrade	Possible, factory upgrade
Sequence length	2 secs @ 1280 x 1024/500 fps (1.3 GB image memory) 4 secs @ 1280 x 1024/500 fps (2.6 GB image memory) 8 secs @ 1280 x 1024/500 fps (5.2 GB image memory) Sequence length can be extended by reducing the image resolution resp. frame rate

Data Interface	Gigabit Ethernet
Video Interface	nA
Memory Interface	nA
Event Marker	1 (TTL, input)

Power supply	12 VDC (9...16 VDC)
Power consumption	20 W
Battery	Built-in, rechargeable NiMH battery allowing 30 minutes camera operation

Options

The S-PRI F2 is a pre-configured model with a well balanced feature set with an emphasis on an economic price. Options and extensions are not available for this model.

Please refer to the product leaflet / technical specs of the S-PRI, a camera model for which a range of options and extensions are available

Certifications

CE	In compliance with relevant standards
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Environmental conditions

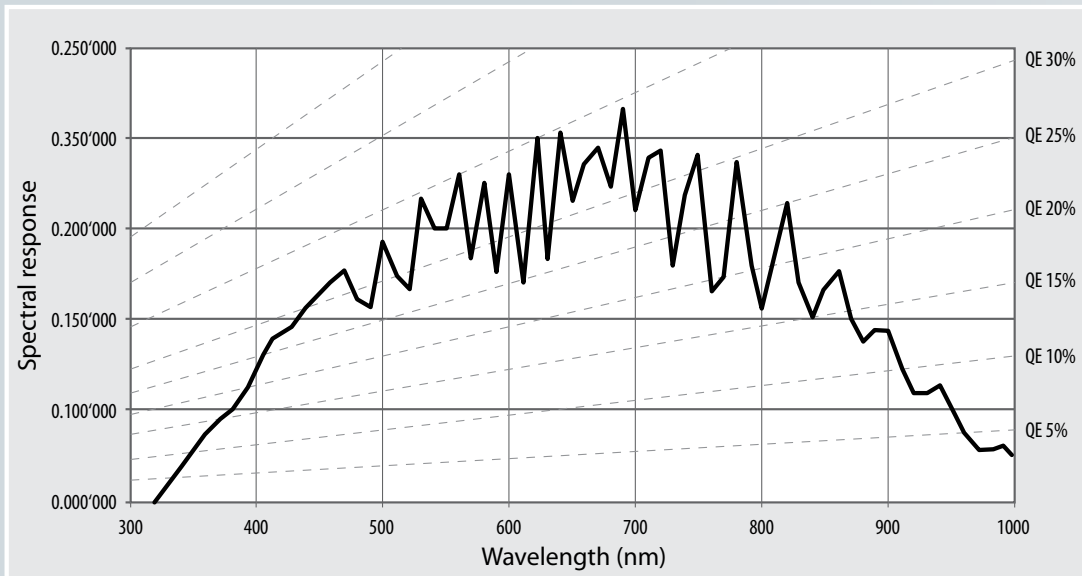
Operating temperature	0 ... +45 °C (32 ... 113 °F)
Storage temperature	-40 ... +70 °C (-40 ... 158 °F)
Operating humidity	max. 80 %, non condensing, at 45 °C (113 °F) for 8 hours
Storage humidity	max. 40 %, non condensing, at 70 °C (158 °F) for 48 hours

Control PC – minimum requirements

CPU	Pentium Dual Core, 2 GHz
DRAM	2 GB
HDD	60 GB
Interfaces	GigE
OS	MS Windows 2000, XP PRO, VISTA, Windows7

The control PC for an AOS high speed camera has to meet or exceed these minimum requirements for a reliable, convenient camera performance. PC's with lower specifications may result in a camera performance below the indicated ones.

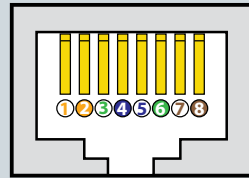
Spectral response



Connectors

Data Connector

- 1 BI_DA+
- 2 BI_DA-
- 3 BI_DB+
- 4 BI_DC+
- 5 BI_DC-
- 6 BI_DB-
- 7 BI_DD+
- 8 BI_DD-

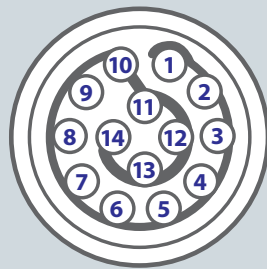


Connector type:

RJ45

I/O Connector

- 1 GND (-)
- 2 V In (In)
- 3 Remote On (In)
- 4 -
- 5 -
- 6 Set-to-Rec (In)
- 7 Trigger (In)
- 8 Strobe (Out)
- 9 Armed (Out)
- 10 Triggered (Out)
- 11 Event Marker 1
- 12 -
- 13 -
- 14 -



Connector type:

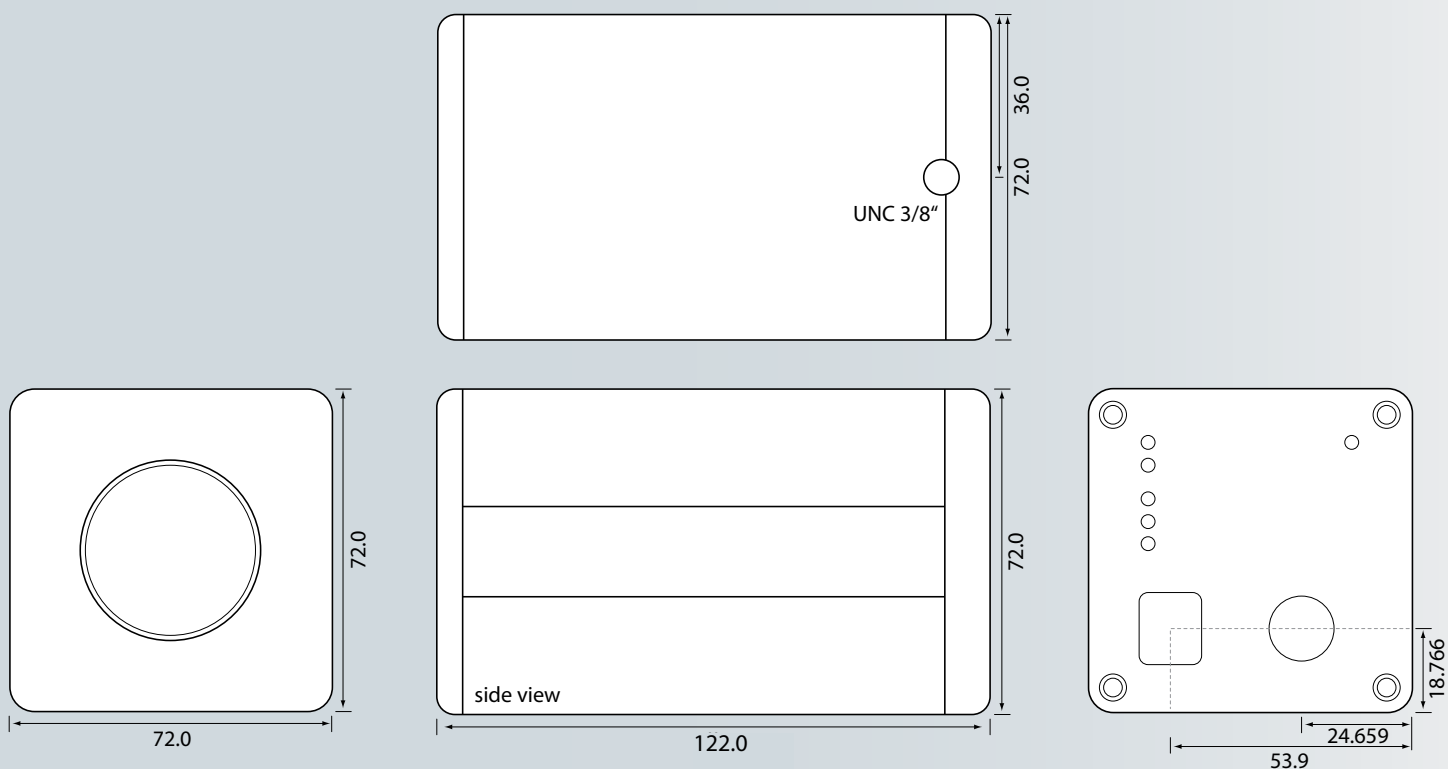
LEMO Type: FGG.2B.314.CLAD82Z

ODU Type: S22LOC-P14MFG0-8200

Dimensions / weight / mechanics

Dimension (w/o options)	72 x 72 x 122 mm (w/o lens and extensions)
Weight	900 gr (w/o lens and extensions)
Lens mount	c-mount, adjustable backfocus
Camera mount	Standard UMC 3/8" thread with 1/4" brass insert M6 threads for camera plate

Dimension / Mounting



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