



PRODUCT LEAFLET

TECHNICAL SPECS

APPLICATION NOTE

S-PRI F2 – the compact, light sensitive high speed camera for industrial and research applications in a very competitive price/performance package

Applications

The S-PRI F2 is particularly suited for all applications where a compact and portable yet robust camera is essential:

- Industrial applications such as the installation and setting up of machinery and assembly lines as well as the subsequent troubleshooting.
- Research applications in mechanical, electrical and process engineering, material stress testing, medical research, sports analysis, etc.

Why the S-PRI F2?

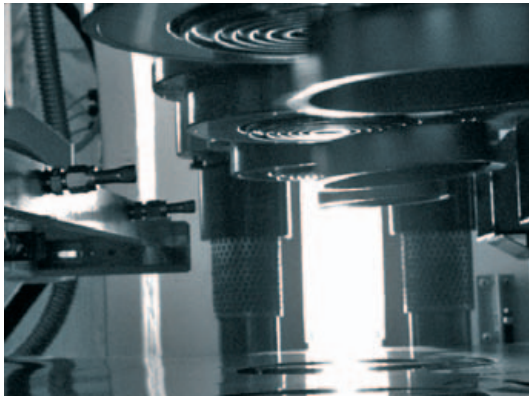
- Perfectly balanced performance – 500 fps @ 1280 x 1024 pixels provides you with excellent image quality and a frame rate to capture most industrial processes
- Robust design – designed for many years of industrial handling and harsh environments (extruded aluminum housing with heavy duty connectors)
- Simple to use – the camera control software is easy to use, even for novices and occasional users; operator training is not necessary – yet provides full control of the camera settings and functions

- Autonomous operation – the built-in battery allows you to use the camera without external power cables and power supplies. Ideal for troubleshooting appliances on the factory floor

Unique features

High Sensitivity – the S-PRI F2 offers a light sensitivity greater than in previous cameras models. In many applications and settings, the camera delivers well-lit images without extra illumination, while in others only minimal extra light is necessary.

High light sensitivity also allows for crisper images as motion blur, associated with fast moving objects can be substantially reduced by a shorter shutter time, and depth of field can be extended by stopping down the lens – both parameters are essential to create better, more informative images



Mechanical engineering on an eccentric press



Industrial troubleshooting on a bottling line

Your local AOS partner:

Specifications are subject to change without prior notice – v07.2010



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Versions

S-PRI cameras are available in the following versions:

- **S-PRI F1:** 1,000 fps @ 640 x 480 pixels, mono or color
- **S-PRI F2:** 500 fps @ 1280 x 1024 pixels, mono or color
- **S-PRI:** modular camera model with a range of options (i.e. high resolution, extended frame rate) and extensions (i.e. CF interface) to configure an individual camera which suits your applications ideally.

Please refer to that cameras product leaflet and technical specs for details.

Accessories

Every S-PRI F2 comes complete with an 'accessory kit', which includes:

- AOS Imaging Studio LIGHT software
- Power supply and cable
- Data cable (5 m)

Users have to supply:

- Control PC (see 'technical specs' for minimal PC specifications)
- Lens (with an image diameter suitable for the selected resolution, i.e. c-mount lens (1") for a reduced resolution of 640 x 480 pixels or a SLR lens (35 mm format) with F-to-c-mount adapter for full resolution)

Accessories like lenses, lights, tripods, cases etc. can be purchased from AOS

Options and extensions

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.

Technical key specifications

Sensor (type, resolution)	CMOS APS Sensor 1280 x 1024 pixels (640 x 480 pixels for extended recording times)
Sensor size	17.92 x 14.33 mm, 14 µm pixel size
Light sensitivity	ISO 3200 (monochrome), ISO 1600 (color)
Frame rate at full resolution	500 fps
Max. frame rate	500 fps
Capacity Image memory	1.3 GB (standard), 2.6, 5.2 GB (optional)
Built-in battery, capacity	NiMH, 30 minutes
Data Interface	Gigabit Ethernet (1'000 Mb/s)
Size, weight	72 x 72 x 122 mm, 900 gr

Complete technical specifications of our products are available as a separate document ('technical specs') from your AOS partner, or as a download from our webpage www.aostechnologies.com/downloads