



PRODUCT LEAFLET

TECHNICAL SPECS

APPLICATION NOTE

## S-PRI – the modular, compact high speed camera for industrial and research applications. More light sensitive than ever.

### Applications

The S-PRI 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?

- Perfectly balanced performance – 1,250 fps @ 800 x 600 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 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

**Modular concept** – you don't have to buy an off-the-shelf product which might or might not suit your application. Have your S-PRI configured for a perfect match by choosing from an extensive range of options and extensions

**Selectable ROI** – the customer can select the most suitable image format (ROI, region of interest) almost without limitations, for best camera performance and image quality



## Versions

S-PRI cameras are available in the following versions:

- **S-PRI:** 1,250 fps @ 800 x 600 pixels, mono or color
- **S-PRI + options:** basic S-PRI plus a range of options to extend the cameras performance to i.e. 1280 x 1024 pixel resolution, 4,200 fps frame rate
- **S-PRI F1:** pre-configured model with the most popular feature set at a special price

## Accessories

Every S-PRI 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 (c-mount, 1" image size)

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

## Options and extensions

The S-PRI is a modular camera in which performance and functions can be extended with a range of software-based 'options', i.e. full resolution, higher frame rates, multi-camera operations etc.

'Options' can be purchased together with a new camera, or at any time later as an 'upgrade'. The upgrade file will be sent electronically and can be installed easily by the operator within minutes. No need to return the camera to the manufacturer.

In addition to the 'options', several hardware based 'extensions' are also available, i.e.

- CF interface
- Video output.

These extensions have to be purchased together with the camera.

## Technical key specifications

|                                      |   |
|--------------------------------------|---|
| <b>Sensor (type, resolution)</b>     | CMOS APS Sensor, 800 x 600 pixels<br>1280 x 1024 pixels (with option 2) |
| <b>Sensor size</b>                   | 11.20 x 8.4 mm, 14 µm pixel size  |
| <b>Light sensitivity</b>             | ISO 3200 (monochrome), ISO 1600 (color)                                 |
| <b>Frame rate at full resolution</b> | 1,250 fps (500 fps @ 1280 x 1024)                                       |
| <b>Max. frame rate</b>               | 1,250 fps (4,200 fps with option 3)                                     |
| <b>Capacity Image memory</b>         | 1.3 GB (standard), 2.6, 5.2, 10.4 GB (optional)                         |
| <b>Built-in battery, capacity</b>    | NIMH, 30 minutes  |
| <b>Data Interface</b>                | Gigabit Ethernet (1'000 Mb/s)   |
| <b>Size, weight</b>                  | 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](http://www.aostechnologies.com/downloads)



Mechanical engineering on an eccentric press



Industrial troubleshooting on a bottling line

Your local AOS partner:

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