



PRODUCT LEAFLET

TECHNICAL SPECS

APPLICATION NOTE

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

### Applications

The S-MOTION 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-MOTION

- Full camera performance in a compact housing – full image resolution with all camera features built-in. No need to buy options to unleash the camera's full potential. The S-MOTION is always ready to face the most challenging applications.
- Robust design – designed for many years of industrial handling and harsh environments (extruded aluminium 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-MOTION offers a light sensitivity greater than in previous camera 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 – Have your S-MOTION extended with extra modules by choosing from an extensive range of extensions like CF interface (for image storage inside the camera) or a Video Interface to connect a video monitor

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



Mechanical engineering on an eccentric press



Industrial troubleshooting on a bottling line

Your local AOS partner:

Specifications are subject to change without prior notice – v10.2009



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## Versions

S-MOTION cameras are available in the following versions:

- **S-MOTION:** 500 fps @ 1280 x 1024 pixels, mono or color, 50'000 fps at reduced resolution

## Accessories

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

- AOS Imaging Studio FULL 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

Several hardware based 'extensions' are 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, 1280 x 1024 pixels
<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>	500 fps @ 1280 x 1024
<b>Max. frame rate</b>	50,000 fps
<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)