



PRODUCT LEAFLET

TECHNICAL SPECS

APPLICATION NOTE

## S-VIT F3 –All what you need in one camera

Reduced to the max in its functionality and ready to provide crisp and clear images. The camera goes in crash test environments without crashing your budget.

### Applications

- Automotive safety testing – on-board full size crash vehicles or sled body structures where the camera is fitted into tight areas like door panels or the pedal area. The camera offers all necessary control functions (sync, trigger, armed out) for not missing a single shot.
- Military application with HiG shocks and limited space. Optional IRIG B 122 time stamping is available

### Why the S-VIT F3?

- **Robust design – no compromise. The S-VIT F3 features the well proven mechanical design of the S-VIT but is reduced to the bare functionality demanded by many budget concerned users**
- Perfectly balanced performance with excellent image quality, frame rates and image resolution settings to fit a wide range of automotive test applications
- 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

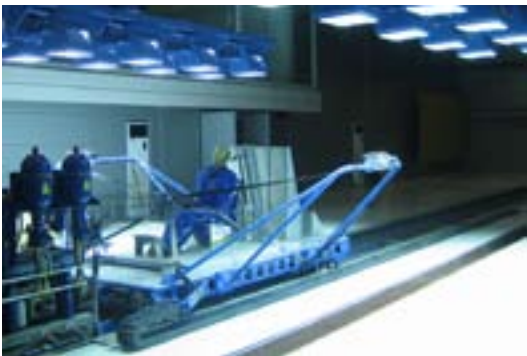
- Autonomous operation – the built-in battery allows you to use the camera without external power cables and power supplies. Do not let slip your image data by accidentally unpowering the camera. The built-in battery backups the image data.

### Unique features

- High light sensitivity – the S-VIT F3 offers crisp and clear images with a high light sensitivity
- Integration in control systems - ask us for special functions for integration into existing control systems and -networks



Car crash (on board)



Sled test (on board)

Your local AOS partner:

Specifications are subject to change without prior notice – v01.2012



AOS Technologies AG, Taefernstrasse 20,  
CH-5405 Baden-Daettwil  
Tel. +41 (56) 483 3488, Fax + 41 (56) 483 3489  
info@aostechnologies.com  
www.aostechnologies.com

## Versions

Beside the S-VIT F3, other S-VIT models are available:

- **S-VIT F1:** 1'000 fps @ 640 x 480 pixels, mono or color
- **S-VIT:** camera model with an extended frame rate and additional I/O signals. Extensions (i.e. CF interface) to configure the camera to suit your applications.

## Accessories

Every S-VIT F3 comes complete with an 'accessory kit', which includes:

- AOS Imaging Studio FULL software
- Power supply and cable
- GigE data cable (lockable, 5 m)

Users have to supply:

- Control PC
- Lens (c-mount, 1" image size)

Accessories are available on request:

- lens cages (to protect the lens during HiG impacts)
- HiG-Camera hub (to sync multiple cameras)
- other accessories like lenses, mounting plates, cables

## Options and extensions

- An optional 24-36V input with IRIG B timestamping is available.

## Image format / frame rates

Image resolution	Frame rate
1280 x 720 *	700fps
900 x 700	1'000fps
800 x 600	1'280fps
520 x 520	2'000fps
350 x 350	4'000fps
270 x 270	6'000fps
230 x 170	10'000fps

\* 1280 x 720 is the popular 'HDTV/720p' image format

## Technical key specifications

<b>Sensor (type, resolution)</b>	CMOS APS Sensor, 1280 x 720 pixels
<b>Sensor size</b>	17.92 x 10.08 mm (approx. 1"), 14 µm pixel size
<b>Light sensitivity</b>	ISO 3200 (monochrome), ISO 1600 (color)
<b>Max. frame rate</b>	10'000 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>Shock resistance</b>	100 G for 15 msec, 3 axis
<b>Size, weight</b>	71 x 71 x 121 mm, 900 gr
<b>PC minimal specs</b>	Pentium Dual Core, 2 GHz, 2GB DDRAM, 60GB HDD MS Windows XP PRO, VISTA, Windows7 32- and 64-bit versions

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)