

# VITcam™ – High-Speed High-G Camera

Specifically designed for vehicle impact test environments, the innovative AOS Technologies VITcam high-speed digital camera architecture puts it in a class by itself. Small, (97x71x71 mm), lightweight, (less than 1 kg), stand-alone battery operation, FireWire network connectivity and robust High-G construction are just a few attributes of the AOS VITcam series.



## The VITcam Features

### Small

The VITcam measures 97 x 71 x 71 mm (3.9 x 2.9 x 2.9 inches) and weighs 0.85 kg.

### Stand-alone

Internal battery provides power for up to 30 minutes. Eliminates the bulky tethered processor.

### Easy-to-use

Just "point & click", it's that simple. FireWire connectivity simplifies the camera control.

### Fast

Speeds of 500 fps at a full resolution of 1280 x 1024 up to 32,000 fps with reduced resolution.

### Robust Design

The VITcam takes 100 g at all axis, 15 msec.

## The VITcam at Work

The VITcam is designed especially for rugged, hostile environments, the perfect choice for the following applications:

- Vehicle impact testing
- Military vehicle and ordinance testing
- Onboard vehicle components testing
- Remote Tests



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# Innovation at it's best

## Ease of Use

The VITcam is easy to operate with the simple and reliable "Point & Click" windows based software. The camera is accessed via a conventional FireWire (IEEE 1394) interface.

## Flexible Resolution and Recording Speeds

Does your application require higher resolution, a longer recording time or faster record speeds? The VITcam provides various resolution and speed selections for your application requirements. You choose the parameters and VITcam does the rest!

## Triggering

The VITcam's flexible trigger options allows the user to create the perfect Pre and Post event trigger settings for capturing images of an event.

## Stand-alone Operation

The VITcam's internal battery provides up to 30 minutes of stand alone operation. Since the VITcam is self-contained (no bulky processor or tethered cables to contend with) the only connection required is a trigger signal. Simply program the VITcam (computer connected via FireWire), disconnect the computer and wait for the trigger signal to capture the event. After the event, re-connect the computer and the sequence of high-speed images can be played and stored on the hard disk in selectable file formats.



## VITcam – Specs

Resolution	1280 x 1024 Pixel (8 bit mono or 24 bit color)
Speed	62 to 32'000 fps
Exposure Rates	Global Electronic Shutter from 4 $\mu$ sec to 1/frame
File-Formats	Raw datas (Bayer format) and AVI format
Frame Storage	2'048 frames (4 sec. recording time with highest resolution)
Power	12 VDC from standard Power Supply
Software	"Point and click" environment (Windows 2000/XP)
Lenses	Standard C-mount (1" format); incl. F-mount adapter; other adapters optional
Size	Camera 97 x 71 x 71 mm
Weight	Camera incl. Standard Battery 0.85 kg
Battery capacity	Recording mode ca. 30 min / Standby mode ca. 6 h

AOS Technologies Inc.  
87 Hall Street  
Mansfield, MA 02048, USA  
Tel. 1 508 339 9309  
Fax. 1 508 339 0915

AOS Technologies AG  
Taefernstrasse 20  
CH-5405 Baden-Daettwil, Switzerland  
Tel. +41 (0)56 483 34 88  
Fax. +41 (0)56 483 34 89

Info@aostechnologies.com  
www.aostechnologies.com



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