

DyVA-s

Dynamic Vision Acquisition - System



DyVA-s provides **turnkey high-speed video**

The **DyVA-s** range of high-speed video solutions makes it possible to view a scene frame by frame to extract the various phenomena that appear within it, whether these phenomena are unexpected, occasional, or even too fast to be perceived by the human eye.

It is a **valuable monitoring tool** for analyzing an event and/or understanding the causes of an incident through access to the sequence of the story line and its origin.

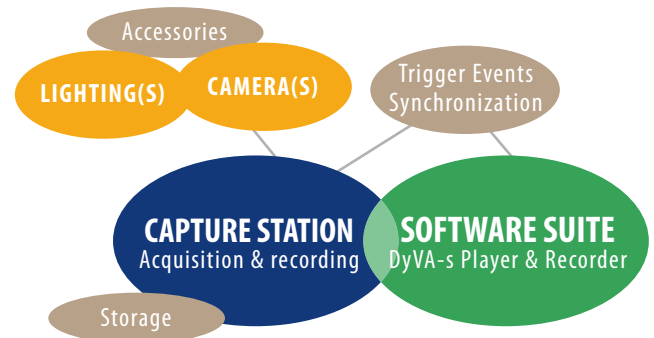
Single or multi-camera

Up to 2000 fps

Up to 16 hours
of recording

Software or hardware
event management

Pre/post trigger
acquisition



INDUSTRIAL APPLICATIONS

DyVA-s can easily be used to its full capacity in industrial engineering as an innovative method of investigation:

- Testing stand
- Crash-tests
- Process refinement aid
- Production chain and/or assembly line monitoring
- Repairing occasional breakdowns
- ...

SCIENTIFIC APPLICATIONS

In experimental science, **DyVA-s** is an indispensable tool for observing ultra-fast phenomena:

- Explosions, vibrations...
- Changes in biological populations
- Movement analyses (plants, living beings)
- Behavioral studies
- ...

DyVA-s can also meet microscopy requirements through a special offer.

▶ Simple to set up and use

The high-speed video software, **DyVA-s Recorder & Player**, can be sold separately or in a complete pack that includes all hardware necessary for recording: camera, lighting, capture station, etc. The devices included in these offers have been selected with great care to guarantee an optimal and directly operational turnkey solution.

The **DyVA-s Recorder & Player** software interface is intuitive and user-friendly while offering advanced functionalities.

▶ Entirely customizable

The **DyVA-s Recorder & Player** software suite is based on an open and flexible architecture that can best meet any recording constraints and requirements. Our engineering department can customize the application to your specific needs.

▶ Equipped with large storage capacity

Depending upon the pack, the **DyVA-s** range of solutions offers up to several hours of recording (16 hours for a single-camera version) with several Tb of storage capacity.

▶ Low cost for a rapid return on investment!

DyVA-s is a range of solutions for everyone thanks to the lowest purchase price on the market (between €5 and 20 000 before taxes, depending upon the options and customization context). The base solution is attractive to micro and small businesses thanks to an almost immediate return on investment.

DyVA-s

4 turnkey solutions for high-speed capture, playback, and recording.

1 Standard single camera pack

Portable station with external storage

DyVA-s Recorder & Player software

1 digital camera

Example:
640 x 480 resolution, 200 fps,
black and white or color

2 High performance single camera pack

Rackable station with external storage

DyVA-s Recorder & Player software

1 digital camera

Example:
1280 x 1024 resolution, 506 fps,
black and white or color

3 Custom multi-camera pack

Rackable station High capacity storage

DyVA-s Recorder & Player software

Up to 16 digital cameras

Example:
640 x 480 resolution, 200 fps,
black and white or color

4 Microscopy pack

Rackable station High capacity storage

DyVA-s Recorder & Player software

1 microscopy camera

Example:
scientific sensor,
2.8 megapixels, cooled camera

Real-time recording in memory (a few seconds) or on disk (several hours)

Up to 2000 frames per second (full frame)

Software or hardware event management (synchronization)

Troubleshooting (pre/post trigger capture)

Related services

Installation and training on-site or at our offices

Telephone assistance, control room or maintenance contract

Customization of standard solutions according to specifications

Interfacing with special cameras

Development of custom supplemental modules

Available options

Expanded disk capacity

Lighting kit

Optics

External trigger

Autonomous power supply (battery)

Bay integration

Flight case integration

Miscellaneous accessories (protective case, tripod, extra long cable, highflex cable, etc.)

DyVA-s Recorder & Player software suite

DyVA-s Recorder : module for capturing, playing, and saving very high-speed image sequences.
DyVA-s Player : module for advanced playback and export of images sequences.

- ▶ Real time recording of images and time stamps in memory or on a hard disk
- ▶ Single or multi-camera recording (synchronized cameras or not)
- ▶ Black and white or color capture
- ▶ Compatible interfaces: GigE GenICam, IEEE-1394, CameraLink, USB
- ▶ Various recording modes: single shot, continuous, loop, and time lapse
- ▶ Image recording and playback in various formats: jpeg, jpeg 2000, bmp, avi, tif, multi-tif, raw, png, dyv
- ▶ Batch file conversion
- ▶ Software or hardware event management
 - Software: motion detection, change in luminosity, etc.
 - Hardware: signal synchronization by pedal, switch, etc.
- ▶ Pre/post trigger capture for troubleshooting
- ▶ Interactive region of interest (ROI) configuration
- ▶ Live image display during capture. Multi-camera and multi-screen display available.
- ▶ Camera settings integrated into the software (guaranteed for DyVA-s packs; to be verified on a case by case basis for all other cameras).
- ▶ Many image processing modules: luminosity and contrast correction, rotation, symmetry, binarization, etc.
- ▶ Multiple embeds on the image: time-stamp, cross hairs, text, image, etc.
- ▶ Remote software management by TCP/IP
- ▶ Disk performance measurement
- ▶ Multi-language interface
- ▶ Windows 32 and 64 bit compatible

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