



Streams Grabber DVRc

Custom High-Performance Digital Video Recorder

OVERVIEW

Ultra-high-bandwidth custom digital video recorder with up to 1Gbytes/second to on-board solid state drives (SSD)...

Engineered for custom, ultra-high-performance, multi-camera digital video recording applications, Streams Grabber DVRc provides the industry's highest speed, most configurable turn-key digital video recording, processing, and analysis solution for a wide variety of engineering & scientific disciplines.

Designed for maximum ease-of-use and customization for the computer novice, Streams Grabber DVRc eliminates the time-consuming process of configuring, programming and integrating high-speed computers, frame grabbers, and digital imaging components. Within a matter of minutes the operator can be streaming high-speed image sequences to on-board SSD at rates of up to 1Gbytes/second.



APPLICATIONS

- motion analysis and tracking
- medical imaging & research
- life & material science research
- high-speed machine troubleshooting
- military ballistics & aerospace testing
- wind tunnel aerodynamics testing
- particle image velocimetry (PIV)
- cinematography
- remote sensing & GIS data logging
- high resolution video surveillance
- intelligent traffic and security systems



FEATURES



- Records continuous digital video streams at up to 1GBytes/sec to on-board SSD
- For CameraLink/HS, GigE, 10GigE, USB2.0/3.0 CoaXpress cameras with data rates up to 1GB/sec
- Flexible camera configurations—mix and match different types of high-speed cameras together
- Wide selection of cameras from AVT, IDS, JAI, Sony, Teledyne Dalsa, & many more...
- Up to 32TB of HDD media for storing minutes to hours of image sequences
- Custom chassis configurations—tower, desktop, and rackmount
- Allows playback of movie files (.MOV/.AVI) or playback at full image resolution up to 29 MP
- Optional add-on software modules for audio, DAQ Fusion, GPS, IRIG-B, LIDAR, Motion Detection...

1Gbytes/second DVR for CameraLink, GigE and USB3.0/2.0 cameras...

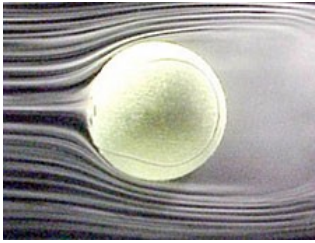


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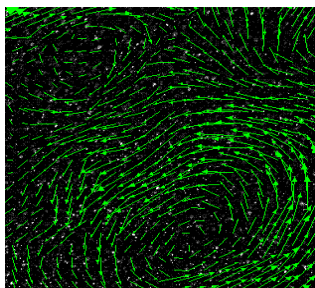
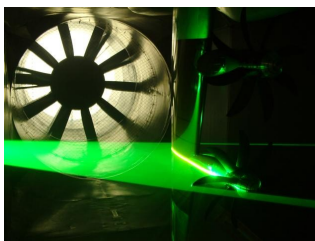
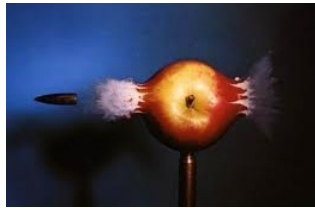
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KINEMATICS APPLICATIONS



SCIENTIFIC APPLICATIONS



Streams Grabber DVRc

HARDWARE SPECIFICATIONS

Processor: Core i7-2600K: 3.4 GHz, 4 cores, 8 threads, 6 MB Cache

Host PC memory: 4 or 8 GB 1333/1600 MHz DDR3

Operating system: Windows Embedded Standard 7 (128 GB SSD memory)

DVR memory: Up to 32TB of SSD (4x256 GB, removable), or up to 4TB of HDD

I/O interfaces: Configuration dependent, call 1stVision for details.

Flexible camera configurations: CameraLink/HS, GigE, 10GigE, USB2.0/3.0, and CoaXpress

Optional frame grabbers: CameraLink/HS full or dual base PCIe x8; quad GigE PCIe x8; quad USB3.0 PCIe x8; multiple PCIe slots based on different configurations

Maximum video acquisition rate: Up to 1Gbytes/second to disk

Recovery USB key: Included for Operating System (OS) image

Power input: Configuration dependent, call 1stVision for details.

Dimensions: Configuration dependent, call 1stVision for details.

SOFTWARE SPECIFICATIONS

Records to sequence file on disk in either raw or compressed format

Transfers directly to host PC RAM for ultra-high-speed image capture and recording

Capture/export sequences to .AVI or .MOV (Quicktime) in real-time using any codec

Capture or export to image formats including: BMP, JPEG, TIFF, PNG, FITS, DPX,...

Customizable read-ahead buffer to ensure no missing frames during recording

Continuous loop video buffering for machine vision or surveillance applications

Pre/Post Trigger Recording with variable Pre and Post duration (optional)

Images precisely time-stamped with microsecond precision

Watch dog timer (WDT) to invoke operations on certain operational conditions

Automatic, customizable file naming schemes for automated file management

Powerful Recording Manager allows maximum flexibility for defining recording schemes

External time source to synchronize w/IRIG-B or GPS time using add-on ATS module

Ability to record audio, IRIG-B, and GPS time stamp on individually acquired images

Simultaneous/synchronous multi-channel audio and DAQ recording (optional)

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