



Streams Grabber DVRe

High-Speed Digital Video Recorder

OVERVIEW

High-bandwidth digital video recorder with up to 550 Mbytes/second to on-board solid state drives (SSD)...

Engineered for high-speed digital video recording applications, Streams Grabber DVRe provides the industry's most reliable and cost-effective turnkey digital video recording, processing, and analysis solution for a wide variety of engineering & scientific disciplines.

Designed for maximum ease-of-use for the computer novice, Streams Grabber DVRe eliminates the time-consuming process of configuring, programming and integrating high-speed computers 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 550 Mbytes/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



- For use with GigE and USB2.0/3.0 cameras with data rates up to 550 Mbytes/second
- Supports single or multi-camera configurations up to 4 cameras—2xGigE and 2xUSB3.0/2.0
- Wide selection of cameras from AVT, IDS, JAI, Sony, Teledyne Dalsa, & many more...
- Up to 960 GB of removable SSD media for storing minutes to hours of image sequences
- Compact size with both AC and DC power input for workstation and portable applications
- 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...

550Mbytes/second DVR for GigE and USB3.0 in the palm of your hands...



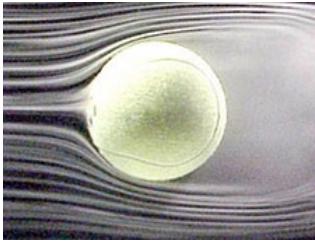
Actual size: 5.5"x6.8"x2.1"

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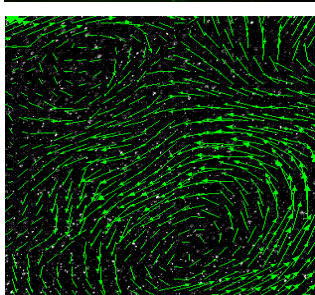
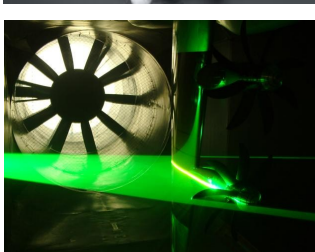
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KINEMATICS APPLICATIONS



SCIENTIFIC APPLICATIONS



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HARDWARE SPECIFICATIONS

Processor options: i3/i5/i7 (Gen3 technology - provides greatest power efficiency)

Option 1: Core i3-3217UE: 1.6 GHz, 2 cores, 4 threads, 3 MB Cache, 17W

Option 2: Core i5-3610ME: 2.7 GHz, 2 cores, 4 threads, 3 MB Cache, 55W

Option 3: Core i7-3615QE: 2.3 GHz, 4 cores, 8 threads, 6 MB Cache, 45W

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

Operating system: Windows Embedded Standard 7 (16 GB CFast memory)

DVR memory: Up to 960 GB of SSD (2x480 GB, removable)

I/O interfaces: 2xUSB3.0, 2xUSB2.0; 2xGigabit Ethernet—1xIntel 85679 (w/jumbo frames), 1xRealtek (no jumbo frames); 1xRS232; 1xVGA port—Intel 4000 chip (Gen IV)

Maximum # of cameras: 4 - 2xUSB3.0 and 2xGigabit Ethernet

Maximum video acquisition rate: Up to 550 Mbytes/second

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

Power input: 12 VDC, 85W max. (110-220 VAC-to-DC adapter included)

Dimensions: 140 mm (L) x 172 mm (W) x 54 mm (H) (~ 5.5" x 6.8" x 2.1")

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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