▶ Streams Grabber DVR*m*

High-Performance Digital Video Recorder

OVERVIEW

High-performance digital video recorder with up to 850 Mbytes/second to on-board solid state drives (SSD)...

Engineered for high-performance, multi-camera digital video recording applications, Streams Grabber DVR*m* provides the industry's most reliable and versatile 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 DVR*m* 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 850 Mbytes/second.

FEATURES

- For CameraLink (CL) Full, GigE, and USB2.0/3.0 cameras with data rates up to 850Mbytes/second

- Flexible camera configurations: e.g., 1xCL Full or 2xCL Base, or 5xGigE, or 6xUSB3.0, etc.

- Wide selection of cameras from AVT, IDS, JAI, Sony, Teledyne Dalsa, & many more...

- Up to 4TB of HDD media (or up to 1TB SSD) for storing minutes to hours of image sequences

- Compact size with AC power input for workstation and desktop applications

- Allows playback of movie files (.MOV/.AVI) or play-back at full image resolution up to 29 MP

- Optional add-on software modules for audio, DAQ Fusion, GPS, IRIG-B, LIDAR, Motion Detection...

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

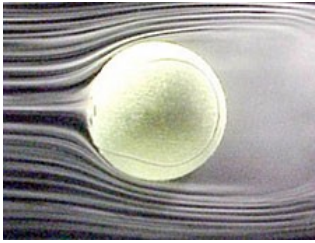*850Mbytes/second DVR for CameraLink, GigE and USB3.0/2.0 cameras...*
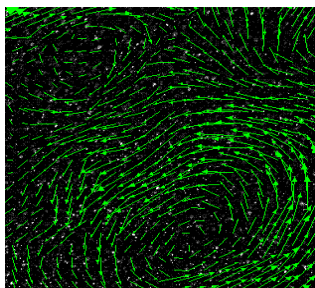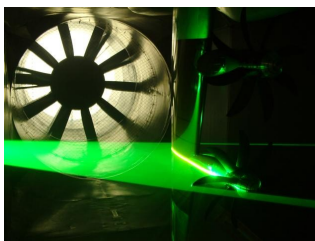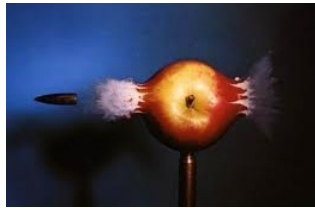

Actual size: 12.2"(W) x 10"(D) x 3.2"(H)

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KINEMATICS APPLICATIONS

SCIENTIFIC APPLICATIONS

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 1TB of SSD (4x256 GB, removable), or up to 4TB of HDD

I/O interfaces: 2xUSB3.0, 6xUSB2.0; 1xGigabit Ethernet—1xIntel 85679 (w/jumbo frames); ESATA; HDMI; 2xDVI port—Intel 4000 chip (Gen IV); onboard audio I/O

Flexible camera configurations: e.g., 1xCL Full or 2xCL Base, or 5xGigE, or 6x-USB3.0, 10GigE and CoaXpress available with mutually exclusive PCIe host adapters

Optional frame grabbers: CameraLink full or dual base PCIe x8; quad GigE PCIe x8; quad USB3.0 PCIe x8; as well as other PCIe x1 - x4 options (e.g., 10GigE, CoaXpress...)

Maximum video acquisition rate: Up to 850 Mbytes/second

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

Power input: 95—265 VAC, 50/60 Hz, 180W max., ATX

Dimensions: 310 mm (L) x 252 mm (W) x 83mm (H) (~ 12.2" x 9.9" x 3.2")

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 surveillence 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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