Streams Grabber DVRe

High-Speed Digital Video Recorder

OVERVIEW

High-bandwidth DVR for streaming GigE and USB2.0/3.0 cameras, each with pixel rates up to 400 Mpixels per second to on-board SSD...

Engineered for high-speed digital video recording applications, Streams Grabber DVRe provides the industry's most reliable, mobile, 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 with high-speed USB3.0 and GigEVision cameras, Streams Grabber DVRe eliminates the time-consuming process of configuring and programming high-speed computers and digital imaging components. Within a matter of minutes the computer novice operator can be streaming high-speed image sequences from single or multiple GigE and/or USB2.0/3.0 cameras each with pixel rates up to 400 Mpixels per second to onboard SSD with up to 4TB capacity.

FEATURES

- **For use with GigE and USB2.0/3.0 cameras each with pixel rates up to 400 Mpixels per second**
- **Supports single or multi-camera configurations up to 5 cameras—3xGigE and 2xUSB3.0/2.0**
- **Wide selection of cameras available from AVT, IDS, JAI, Sony, Teledyne Dalsa, & many more...**
- **Up to 4TB of SSD media for storing minutes to hours of image sequences**
- **Compact 6"L x 4.3"W x 2.2"H size with both AC and DC power input options**
- **Allows playback of movie files (.MOV/.AVI) or playback at full image resolution up to 29 MP**
- **Windows 10 IoT or Linux OS options**
- **-25°C ~ 70°C operating temperature range**
- **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

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

Actual size: 6"L x 4.3"W x 2.2"H

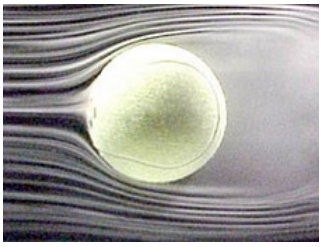
1stVision

Phone: 978-474-0044
Fax: 978-623-7260
E-Mail: info@1stvision.com
www.1stvision.com

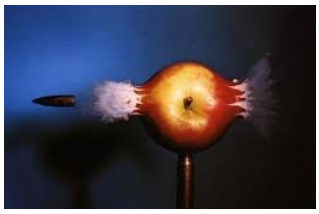
Two Dundee Park
Andover, MA 01810

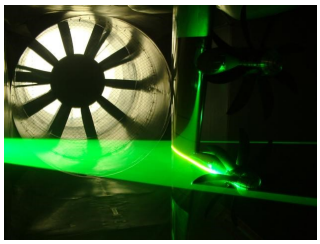
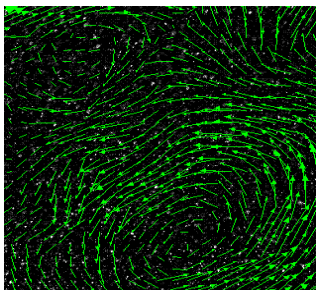
Streams Grabber DVRe

KINEMATICS APPLICATIONS


SCIENTIFIC APPLICATIONS



HARDWARE SPECIFICATIONS

Processor options: Intel®

Option 1: Intel® Atom™ E3950 1.6/2.0 GHz quad-core processor

Option 2: Intel® Pentium® N4200 1.1/2.5 GHz quad-core processor

Option 3: AMD Ryzen™ V1605B/V1807B series quad-core 15W/45W CPU

Host PC memory: 1x SODIMM socket for DDR3L-1866, up to 8GB, or up to 16 GB DDR4-3200 SDRAM by one SODIMM socket with AMD CPU option

Operating system: Windows 10 IoT or Linux

DVR memory: Up to 4TB of SSD

I/O interfaces: 2xUSB3.0, 2xUSB2.0; 3xGigE, of which two are PoE, Intel I210 GbE controller, expandable to 4xUSB3.0, 4xGigE PoE

Maximum # of cameras: 5 - 2xUSB3.0, and 3xGigE, or 8 — 4xUSB3.0, and 4xGigE PoE

Graphics: Integrated Intel® HD Graphics 505

Maximum video acquisition rate: Up to 400 Mpixels per second each channel (8-bit)

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

Power input: 8-35VDC, 60W max. (110-220 VAC-to-DC adapter included)

Operating temperature range: -25°C ~ 70°C

Dimensions: 56 x 108 x 153mm

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,...

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

Automatic, customizable file naming schemes for automated file management

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)

1stVision

Phone: 978-474-0044
Fax: 978-623-7260
E-Mail: info@1stvision.com
www.1stvision.com

Two Dundee Park
Andover, MA 01810