

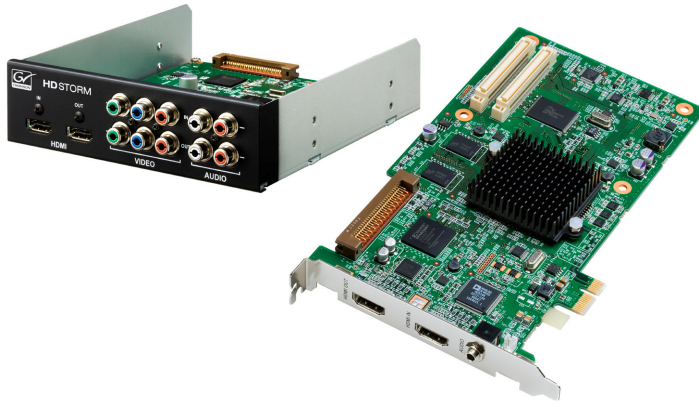


EDIUS

HDMI-BASED EDITING FOR THE DIGITAL GENERATION



Including Thomson Grass Valley™ EDIUS® 5 nonlinear editing software, HDSTORM Plus helps users making the transition from standard-definition (SD) to high-definition (HD).



The Thomson Grass Valley™ EDIUS® family supports the real-time editing of all popular standard-definition (SD) and high-definition (HD) formats, including Canopus® HQ, Canopus Lossless, DV, DVCAM, HDV, MPEG-2, and uncompressed video.

HDSTORM – HDMI-based Editing

A single PCI Express form factor board, HDSTORM allows editors to work with HDMI inputs and outputs, and has the Canopus HQ hardware codec built-in for optimized, CPU-free capture and export. This includes full-resolution and synched preview of effects.

The power of having the Canopus HQ codec on-board means users are not restricted by their CPU speeds or workstation limitations when ingesting or creating Canopus HQ files. Keeping the compression processing separate brings new reliability and system performance to the editing and effects creation environment.

HDSTORM can handle any mix of HD and SD video content; unlimited video, audio, title, and graphics layers; and any

combination of real-time effects. It also offers real-time, full-resolution, full-quality component HD and SD video output.

Real-Time Display Streamlines Workflows

Unlike systems that compromise video quality to provide real-time editing, HDSTORM delivers genuine real-time, HD-resolution editing—including full-quality, full-frame-rate HD output to an HDMI video monitor from the timeline. No rendering is required to preview edited sequences; the system displays them instantly and with audio synched.

HDSTORM Plus – The Perfect Transitional Tool

An optional (5.25-inch) bay is also available (included as standard with HDSTORM Plus). The bay not only features additional connectors for HDMI devices, but also input and output connectors for analog HD/SD component, S-Video, composite, and unbalanced audio; this helps those still working in analog to make the transition to digital and HD production.

KEY FEATURES

- Edit any mix of SD and HD resolution video content together in real time
- Works with many different native video formats, including DV, HDV, AVCHD, uncompressed, and more
- New GPU-accelerated 3D transitions
- Real-time editing performance increases as CPU power increases
- Supports newer file-based formats, including Infinity JPEG 2000, XDCAM and XDCAM EX, P2 (DVCPRO and AVC-Intra), and GFCam
- HDMI input/output for connectivity with HDMI devices and real-time monitoring from the included EDIUS 5 NLE software
- Canopus HQ hardware encoder for fast, high-quality capture of video to Canopus HQ AVI files
- Windows XP and Windows Vista support
- Bay option for HD/SD analog component, S-Video, and composite input/output
- Advanced hardware video input filtering and high-quality analog inputs/outputs (as standard with HDSTORM Plus, or when adding optional bay to HDSTORM)

<http://desktop.thomsongrassvalley.com>

Grass Valley Authorised Distribution Partner:

Graphics Vision
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Package Contents

- HDSTORM PCI-Express card
- EDIUS 5 installation disk set (DVD-ROM)
- USB license key
- QuickStart guide
- Hardware setup manual
- 5.25" HDSTORM bay (HDSTORM Plus only)
- HDSTORM bay connector cable (HDSTORM Plus only)
- S-Video conversion cables (2) (HDSTORM Plus only)

Bundled Software

- NewBlue video filters: Art Effects, Film Effects & Motion Effects
- ProDAD video effects & image stabilization: VitaScene & MercaIli Expert
- iZotope VST audio plug-ins: Audio Effects Suite, AudioRestore, AGC & Mastering Effects Suite
- Corel DVD & Blu-ray authoring: DVD MovieFactory
- Artbeats HD stock footage and graphics

Specifications

HDSTORM

Bus Interface

PCI Express Rev. 1.1 x1 lane

Video Formats (Output) (CEA-861D)

- 1920x1080/59.94i, 1920x1080/50i, 1440x1080/59.94i, 1280x1080/59.94i
- 1280x720/59.94p, 1280x720/50p, 960x720/59.94p
- 720x480/59.94p, 720x576/50p
- 720x480/59.94i, 720x576/50i

Video Formats (Input) (CEA-861D)

- 1920x1080/59.94i, 1920x1080/50i, 1440x1080/59.94i, 1280x1080/59.94i
- 1280x720/59.94p, 1280x720/50p, 960x720/59.94p
- 720x480/59.94p, 720x576/50p
- 720x480/59.94i, 720x576/50i

Video Output Connector

HDMI 1 port (HDCP not supported)

Video Input Connector

HDMI 1 port (HDCP not supported)

Audio Formats

LPCM 48/44.1/32kHz 24-bit

Audio Output Connectors

- HDMI LPCM 8-channel
- Monitor: line output (stereo mini-jack)

Audio Input Connector

HDMI (LPCM 8-channels)

Power Requirements: +12V: TBD, +3.3V: 3A

Physical Dimensions: 190 x 111 mm (7.5 x 4.375 in.) (HxW)

Regulatory Compliance: CE, FCC CLASS B, C-Tick

<http://desktop.thomsongrassvalley.com>

HDSTORM Plus

(as above, but with the following additional features)

Analog Formats (Output)

- 1920x1080/59.94i, 1920x1080/50i, 1440x1080/59.94i, 1280x1080/59.94i (SMPTE 274M)
- 1280x720/59.94p, 1280x720/50p, 960x720/59.94p (SMPTE 296M)
- 720x480/59.94p, 720x576/50p (SMPTE 294M)
- 720x486/59.94i, 720x576/50i (SMPTE 259M-C)

Analog Input Formats

- 1920x1080/59.94i, 1920x1080/50i, 1440x1080/59.94i, 1280x1080/59.94i, iSMPTE 274M
- 1280x720/59.94p, 1280x720/50p, 960x720/59.94p, iSMPTE 296M
- 720x480/59.94p, 720x576/50p (SMPTE 294M)
- 720x486/59.94i, 720x576/50i (SMPTE 259M-C)

Video Output Connector

- Additional HDMI 1 port (HDCP not supported)
- Analog component (S-Video, component YPbPr)

Video Input Connector

- Additional HDMI 1 port (HDCP not supported)
- Analog component (S-Video, component YPbPr)

Audio Formats

Analog I/O: 48 kHz, 24-bit

Audio Output Connectors

- HDMI LPCM 8-channels
- Line (RCA connectors: stereo)

Audio Input Connector

- HDMI LPCM 8-channels
- Line (RCA connectors: stereo)

Board-to-Bay Connection: cable supplied (LVDS)

Power Requirements (Bay): +12V: TBD. +5V TBD (via HDD power cable)

Physical Dimensions (Bay): 143 x 42 x 165 mm (5.63 x 1.65 x 6.5 in.) (WxHxD)

System Requirements

CPU

Intel or AMD CPU with a 3 GHz processor speed or faster (multiple CPUs and/or multi-core CPUs are recommended. SSE2 and SSE3 instruction set supported).

Memory

1 GB RAM (2 GB or more recommended)

PCI Express

One free PCI Express bus slot

Hard Disk

- 800 MB or more space required for software installation
- Drive with ATA100/7,200rpm or faster is necessary for video storage:
 - Available HDD disc space should be twice the size of the file to be edited
 - RAID-0 is recommended for HD resolution editing

Graphics Card

- A graphics card supported by Direct3D 9.0c or later, and PixelShader Model 3.0 or later is required

- Please check <http://desktop.thomsongrassvalley.com/> for the latest information on compatible graphics cards for GPU effects. As a general guideline:

- For SD editing: 128 MB or larger required, 256 MB or larger recommended
- For HD editing: 256 MB or larger required, 512 MB or larger recommended

Sound Card

A sound card with WDM driver support is required

DVD-ROM Drive

- Required for software installation
- DVD-R/RW or DVD+R/RW drive is required when creating DVD-Video with DVD Creator

5.25" Bay

One free 5.25" bay required for HDSTORM bay

USB Port

Free USB port (1.1 or higher) is required for security key

Operating System

- Windows XP Home or Windows XP Professional (SP2 or later, 32-bit)
- Windows Vista (SP1 or later, 32-bit or 64-bit), including the following operating systems:
 - Windows Vista Home Basic
 - Windows Vista Home Premium
 - Windows Vista Business
 - Windows Vista Ultimate

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