![Grass Valley logo] grass valley

HDSPARK

REAL-TIME EDITING WITH HDMI OUTPUT

HDMI Output for EDIUS.

The Grass Valley™ HDSPARK™ solution is designed to support the increasing number of video professionals who are using tapeless acquisition and simply need to see their projects output in real time, using affordable HDMI monitors. Based on the PCI Express form factor, the HDSPARK board features an HDMI output for full-resolution, real-time preview monitoring. Embedded HDMI audio and separate stereo RCA jacks provide high-quality audio monitoring. It's ideal for tapeless editing or working in a file-based, networked environment.

HDSPARK is available in three different configurations:

- **HDSPARK with EDIUS:** This model includes a complete copy of EDIUS® Pro 6.5 nonlinear editing software. *Note: This configuration requires Windows 7 (32-bit or 64-bit).*

- **HDSPARK with EDIUS upgrade:** This model includes an upgrade copy of EDIUS Pro 6.5 nonlinear editing software. This version is ideal for users of the previous version of EDIUS 6. *Note: This configuration requires EDIUS 6 and Windows 7 (32-bit or 64-bit). If you are running EDIUS 6 on Windows XP or Windows Vista, you must migrate to Windows 7 to use this configuration.*

- **HDSPARK standalone:** This model features only the HDSPARK board without our EDIUS nonlinear editing software. This version is ideal for current users of EDIUS. *Note: This hardware-only configuration works with Windows 7 (32-bit or 64-bit), Windows Vista (SP2 or later, 32-bit or 64-bit), and Windows XP (SP3 or later, 32-bit).*

The HDSPARK solution empowers you with a constantly synched, full-resolution preview of effects and content directly from the EDIUS timeline.

The HDSPARK solution can handle any mix of high- and standard-definition (HD and SD) video content; unlimited video, audio, title, and graphics layers; and any combination of real-time effects.

KEY FEATURES

- HDMI output for full-resolution, real-time monitoring from EDIUS NLE software (EDIUS not included with standalone model)

- Embedded HDMI audio output and separate RCA jacks for high-quality audio monitoring

- Video and audio output stays perfectly in sync with editing windows for accurate editing and trimming

- 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

- Real-time SD/HD resolution, aspect ratio, and frame rate conversion and output – including 16:9 to 4:3 and NTSC to PAL

- New GPU-accelerated 3D transitions

- Real-time editing performance increases as CPU power increases

Note: Some of the features above are available only with EDIUS 5, which is not included in the standalone version of HDSPARK.

PACKAGE CONTENTS (HDSPARK WITH EDIUS):

- HDSPARK (HSX-E1) PCI Express x1 bus card
- EDIUS Pro 6.5 software installation disc set (DVD-ROM)
- Hardware setup manual
  Note: This configuration requires Windows 7 (32-bit or 64-bit).

PACKAGE CONTENTS (HDSPARK WITH EDIUS UPGRADE):

- HDSPARK (HSX-E1) PCI Express x1 bus card
- EDIUS Pro 6.5 upgrade software installation disc set (DVD-ROM)
- Hardware setup manual
  Note: This configuration requires EDIUS 6 and Windows 7 (32-bit or 64-bit). If you are running EDIUS 6 on Windows XP or Windows Vista, you must migrate to Windows 7 to use this configuration.

PACKAGE CONTENTS (HDSPARK STANDALONE):

- HDSPARK (HSX-E1) PCI Express x1 bus card
- Hardware setup manual
  Note: This hardware-only configuration works with Windows 7 (32-bit or 64-bit), Windows Vista (SP2 or later, 32-bit or 64-bit), and Windows XP (SP3 or later, 32-bit).

SPECIFICATIONS

Bus Interface

PCI Express Rev. 1.0a x1 lane

Video Formats (Output) (HDMI)

- 1920x1080i50/59.94
- 1920x1080p23.98
- 1280x720p50/59.94
- 720x480i59.94
- 720x576i50
- 720x480p59.94
- 720x576p50

Video Output Connector

HDMI 1 port (HDCP not supported)

Audio Formats

LPCM 48 kHz/24-bit

Audio Output Connectors

- HDMI LPCM 8-channel
- Monitor: 1x stereo RCA (unbalanced)

Power Requirements

+12V: 0.05A, +3.3V: 0.9A

Physical Dimensions

68.9 x 97 mm (2.71 x 3.82 in.) (HxW)

Regulatory Compliance

CE, FCC CLASS B, C-Tick

Minimum System Requirements

CPU

Any Intel Core 2 or Core iX CPU. Intel or AMD single core 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 (4 GB or more recommended)

Hard Disk

- 6 GB of hard disk space is required for installation (including third-party software)
- Drive with ATA100/7,200 RPM 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

PCI Bus

One free PCI Express x1 bus slot

Graphics Card

A graphics card supporting higher resolution than 1024x768 (32-bit), Direct3D 9.0c or later, and PixelShader Model 3.0 or later is required

- For SD editing: 256 MB or larger required, 512 MB or larger recommended
- For HD editing: 512 MB or larger required, 1 GB or larger recommended

Sound Card

A sound card with WDM driver support is required

DVD-ROM Drive

Required for software installation Blu-ray Disc writer, DVD-R/RW or DVD+R/RW drive is required when creating Blu-ray Discs or DVDs

Internet Connection

Required for software license activation

Operating Systems

HDSPARK with EDIUS:
Windows 7 (32-bit or 64-bit)

HDSPARK with EDIUS Upgrade:
Windows 7 (32-bit or 64-bit)
(also requires EDIUS 6)
Note: If you are running EDIUS 6 on Windows XP or Windows Vista, you must migrate to Windows 7 to use this configuration.

HDSPARK Standalone:

- Windows 7 (32-bit or 64-bit)
- Windows Vista (SP2 or later, 32-bit or 64-bit)
- Windows XP (SP3 or later, 32-bit)

ORDERING INFORMATION

HDSPARK is available in three different configurations:

HDSPARK with EDIUS: This model includes a complete copy of EDIUS Pro 6.5 nonlinear editing software.
Note: This configuration requires Windows 7 (32-bit or 64-bit).

HDSPARK with EDIUS Upgrade: This model includes an upgrade copy of EDIUS Pro 6.5 nonlinear editing software.
Note: This configuration requires EDIUS 6 and Windows 7 (32-bit or 64-bit). If you are running EDIUS 6 on Windows XP or Windows Vista, you must migrate to Windows 7 to use this configuration.

HDSPARK Standalone: This model features only the HDSPARK board without our EDIUS nonlinear editing software. This version is ideal for current users of EDIUS.
Note: This hardware-only configuration works with Windows 7 (32-bit or 64-bit), Windows Vista (SP2 or later, 32-bit or 64-bit), and Windows XP (SP3 or later, 32-bit).

MAXIMIZE AND OPTIMIZE YOUR INVESTMENT

With program production and distribution becoming ever more complex and affecting business issues on a daily basis, you need a trusted partner that understands those complexities and how to convert them into opportunities. Grass Valley's team of experienced engineers and system integrators can help you turn your challenges into opportunities in the most efficient and cost-effective way possible, from system design all the way through to commissioning. Grass Valley Professional Services helps you to:

Define: We consult with you to help define your business and technology requirements and then design the right solutions to meet them.

Deploy: Our professional service organization, backed by proven project management methodologies, can take you from design through deployment, commissioning, and training.

Support: We offer a complete portfolio of support services to keep your systems running, and help manage your long-term maintenance needs.

For information about Grass Valley, please visit **www.grassvalley.com**.

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