



HDSPARK

REAL-TIME EDITING WITH HDMI OUTPUT



HDMI Output for EDIUS



The 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 models:

- **HDSPARK with EDIUS:** This model includes a complete copy of EDIUS® 5 nonlinear editing software. Also included are the plug-ins, applications, and sample material (valued at over \$1,000) which come with the EDIUS software. The only application that is not included is TitleMotion Pro, which is available separately.

- **HDSPARK with EDIUS upgrade:** This model includes an upgrade copy of EDIUS nonlinear editing software. This version is ideal for current users of EDIUS 4.x. Also included are the plug-ins, applications, and sample material (valued at over \$1,000) which come with the EDIUS software. The only application that is not included is TitleMotion Pro, which is available separately.
- **HDSPARK standalone:** This model features only the HDSPARK board without our EDIUS nonlinear editing software. This version is ideal for current users of EDIUS 5.x.

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, realtime monitoring from EDIUS 5 NLE software (EDIUS 5 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
- Supports newer file-based formats, including Infinity™ JPEG 2000, XDCAM, XDCAM EX, P2 (DVCPRO and AVC-Intra), and GFCam
- Compatible with Windows XP and Windows Vista

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

<http://desktop.thomsongrassvalley.com>

Grass Valley Authorised Distribution Partner:

Graphics Vision
(M) Sdn. Bhd. (175178-V)

117, Jalan Aminuddin Baki, Taman Tun Dr Ismail, 60000 Kuala Lumpur.
Tel : 603-7727 1868 Fax : 603-7729 1868
email : gvision@pc.jaring.my websites : www.graphics-vision.com

Package Contents (HDSPARK with EDIUS):

- HDSPARK (HSX-E1) PCI Express x1 bus card
- EDIUS software installation disc set (DVD-ROM)
- EDIUS bonus disk (DVD-ROM)
- EDIUS USB dongle
- Hardware setup manual

Package Contents (HDSPARK with EDIUS Upgrade):

- HDSPARK (HSX-E1) PCI Express x1 bus card
- EDIUS upgrade software installation disc set (DVD-ROM)
- EDIUS bonus disk (DVD-ROM)
- EDIUS USB dongle
- Hardware setup manual

Package Contents (HDSPARK standalone):

- HDSPARK (HSX-E1) PCI Express x1 bus card
- Hardware setup manual



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

System Requirements

- 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
- 1 GB RAM (2 GB or more recommended)
- One free PCI Express x1 bus slot
- 800 MB or more space required for software installation

- Drive with ATA100/7,200rpm or faster capable of sustaining at least 20 MB/s data transfer.
 - Available hard disk space should be twice the size of the file to be edited
 - A RAID stripe set of two or more hard disk drives is required for multiple HD stream output
- A graphics card with at least 256 MB of graphics memory (512 MB recommended) with support for Direct3D 9.0c or later, and PixelShader Model 3.0 or later is required (PixelShader Model 4.0 or later recommended)**
- Sound card with WDM driver support required
- DVD-ROM drive is required for software installation. DVD-R/RW or DVD+R/RW drive is required when creating DVD-Video with DVD Creator

- Free USB port (1.1 or higher) is required for security key
- Windows XP (SP3 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

* Not available in first release.

** 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

<http://desktop.thomsongrassvalley.com>

Grass Valley Authorised Distribution Partner:

Graphics Vision
(M) Sdn. Bhd. (175178-V)

117, Jalan Aminuddin Baki, Taman Tun Dr Ismail, 60000 Kuala Lumpur.
Tel : 603-7727 1868 Fax : 603-7729 1868
email : gvision@pc.jaring.my websites : www.graphics-vision.com