

# HDSPARK

## Nonlinear Editing & HDMI Output

If you're working in a file-based, networked environment and need to see your projects output in real-time, using affordable HDMI monitors, our HDSPARK hardware solution is ideal. Based on the PCI Express form factor, it is available with full or upgradable versions of our EDIUS® nonlinear editing software—as well as an HDMI output board supports full-resolution, real-time preview monitoring. It also features embedded HDMI audio and separate stereo RCA jacks for high-quality audio monitoring.



The HDSPARK platform is available in three different configurations: one with a complete copy of our EDIUS 5 software, one with an EDIUS 5 software upgrade for EDIUS 4 users, and a standalone version with only the HDSPARK board. For a fuller description of the available models, please click on the selection in the right-hand column.

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

As for the HDSPARK board, it 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 included EDIUS® 5 NLE software\*
- 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 and XDCAM EX, P2 (DVCPRO and AVC-Intra), and GFCam
- Compatible with Windows XP and Windows Vista

\* EDIUS 5 software not included with all models

NOTE: Some of the features above are available only with EDIUS 5, which is included in some, but not all, HDSPARK models

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### 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") (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. Minimum SSE2 instruction set required)
- 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 ATA100/7,200 rpm or faster capable of sustaining at least 20 MB/s data transfer

- Available HDD disc 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 for software installation
- DVD-R/RW or DVD+R/RW drive for creating DVD-Video with DVD Creator
- Free USB port (1.1 or higher) for security key
- Windows XP Home or Windows XP Professional (SP2 or later, 32-bit)
- Windows Vista (SP1 or later, 32- or 64-bit), including the following operating systems:
  - Windows Vista Home Basic
  - Windows Vista Home Premium
  - Windows Vista Business
  - Windows Vista Ultimate

**Graphics Card Guidelines**

- 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

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