

ELEMENTAL ACCELERATOR™

GPU-ACCELERATED VIDEO PROCESSING FOR ADOBE® PREMIERE® PRO CS4



VIDEO PROCESSING PLUG-IN FOR ADOBE® PREMIERE® PRO CS4 ON MAC AND WINDOWS

Elemental™ Accelerator™ is a high-speed, high-quality video processing solution designed to add power and performance to the Adobe® Premiere® Pro CS4 workflow. Coupled with NVIDIA Quadro series video cards, Elemental Accelerator harnesses the power of the graphics processing unit (GPU) to perform high-speed video encoding and deliver dramatic time savings over conventional CPU-only encoding solutions. Elemental Accelerator performs GPU-accelerated conversion of commonly distributed digital video formats to H.264/AVC baseline, main, or high profile output ready for upload to the web or burning to Blu-ray disc. By executing demanding processing tasks on the GPU, Elemental Accelerator not only speeds video transcoding, it frees CPU resources to perform other tasks, resulting in a faster, more efficient video editing and production environment.

“With Elemental Accelerator, Adobe Premiere Pro CS4 users can reap tremendous benefit from the workflow efficiencies in Adobe Creative Suite 4 and the high-performance video encoding afforded by GPU acceleration. By performing video conversion tasks on the GPU, Elemental’s software allows creative professionals to even further accelerate their Adobe Premiere Pro CS4 workflows, improve system efficiency, and increase overall productivity.”

Owen Walker

Senior Product Manager for Premiere Pro ADOBE SYSTEMS INCORPORATED

EXPERIENCE THE BENEFITS

GPU Accelerated Video Processing

Perform video decoding, processing and encoding on the GPU to deliver dramatically better performance than conventional CPU-only processing.

Lowest Total Solution Cost

Run on low-cost, off-the-shelf hardware, eliminating the need for specialized, expensive video processing hardware that is prone to obsolescence.

Superior Video Quality

Deliver Blu-ray or web-targeted H.264/MPEG-4 AVC files with exceptional image quality.

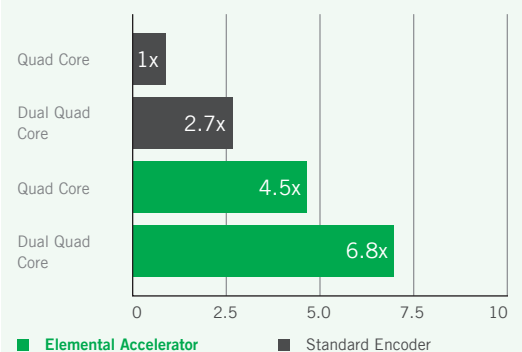
Optimized System Performance

Increase productivity and the performance of your entire computer by shifting video processing to the GPU, freeing the CPU for other computing tasks. With Elemental Accelerator, your entire system runs faster and more efficiently.

Seamless Workflow Integration

Add power and performance to your video processing without modifying your workflow. Elemental Accelerator is installed as a plug-in for Adobe Premiere Pro CS4, allowing access from within the application to video presets and other controls.

ENCODING PERFORMANCE IMPROVEMENT



In a CPU-only environment, each video frame is broken into parts and processed serially on the CPU. Elemental Accelerator utilizes hundreds of processors in the GPU to render entire frames in parallel, speeding video conversion.

GPU-ACCELERATED FEATURES & SPECIFICATIONS

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FEATURES

Import Formats

Import the most common video formats for editing in Adobe Premiere Pro. Supported formats include AVCHD, MOV, MPG, HDV, MTS, M2TS, and TS.

Decode Formats

Support for GPU-accelerated MPEG2 and H.264/AVC video decode speeds end-to-end video processing.

Effects Rendering and Video Conversion

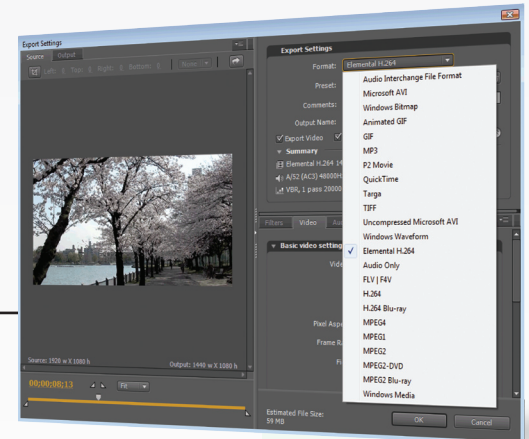
Accelerate common video effects and transitions as well as linear scaling and frame rate conversion.

Output Video

Render and encode H.264/AVC video to High and Main profiles for Adobe Flash and Blu-ray disc, and to Baseline profile for portable media players.

Easy Installation

Elemental Accelerator installs quickly and easily as a plug-in for Adobe Premiere Pro CS4.



SPECIFICATIONS

Accelerated Video Workflows	MPEG-2	H.264/AVC	AVCHD	HDV	XDCAM
Video Rendering/Encoding	H.264/AVC High and main profile for Adobe Flash and Blu-ray Baseline profile for Adobe Flash and portable media players				
Video Effects & Transitions	Motion Position Uniform Scale Independent Scale	Effects Opacity Cropping	Transitions Dip to Black Dip to White Cross Dissolve	Fast Color Corrector Hue balance & angle Balance magnitude, gain and angle Saturation Contrast (input/output level settings) Brightness (input/output level settings)	
Video Conversion	Linear up and down scaling		Aspect ratio conversion		Frame rate conversion
Audio Encoding	AAC	A/52 (AC3)	PCM		

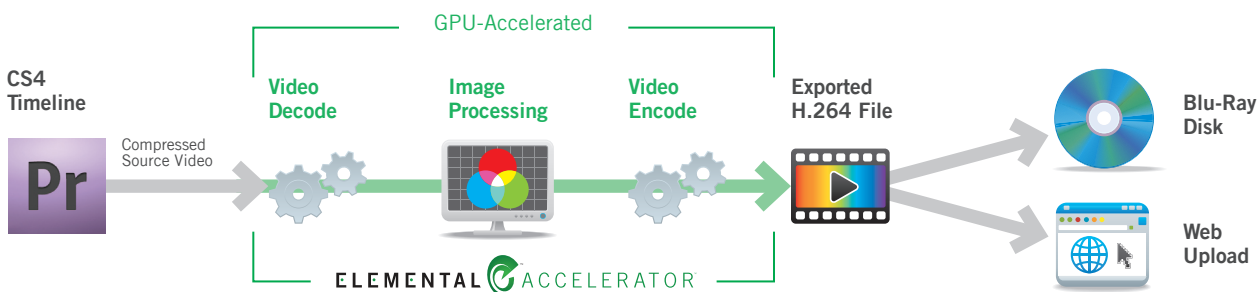
SEAMLESS INTEGRATION

Elemental Accelerator provides seamless workflow integration with Adobe® Premiere® Pro CS4. Access functionality from within the application interface and customize settings directly from the Adobe Export Settings dialog box.

PARTNERS



ACCELERATOR WORKFLOW



MINIMUM SYSTEM REQUIREMENTS

- 1.6 GHz Intel or AMD dual core CPU
- Select NVIDIA Quadro FX GPUs
- Adobe® Premiere® Pro CS4
- Windows XP
- Windows Vista
- Windows Vista 64
- Mac OS*
- Internet Access

*Initial product includes accelerated encoding only