



Professional realtime native HDV and DV editing

If you're a professional video editor concerned about getting the most from Adobe Premiere Pro and Adobe Production Studio, you need Matrox RT.X2. It's ideal for corporate communicators, event videographers, project studios, educational facilities and digital filmmakers. Designed primarily for realtime native HDV and DV editing, Matrox RT.X2 also provides a high-quality MPEG-2 4:2:2 I-frame codec so you can capture other HD and SD formats using RT.X2's analog inputs and mix all types of footage on the timeline in real time. No matter what your desired workflow, Matrox RT.X2 delivers maximum realtime productivity. No other platform gives you so many ways to get the job done in record time.

Bundled with Adobe Premiere Pro, Matrox RT.X2 goes far beyond the capabilities of software-only editing and systems that combine Adobe Premiere Pro and a simple I/O card. With Matrox RT.X2 you get:

- Many more realtime layers of video and graphics in HD and SD
- More effects in real time including color correction, chroma/luma keying, speed changes, blur/glow/soft focus, and much more
- Broadcast-quality, realtime 3D effects with soft edges and realistic shadows
- Capture from analog sources to compressed MPEG-2 4:2:2 I-frame HD and SD
- Realtime mixing of HD codecs and SD codecs on the same timeline
- Realtime mixed-format multi-cam
- Accelerated export to DVD, all multimedia formats including Flash Video, and Adobe Clip Notes
- Audio VU meters on capture
- Full-resolution HD monitoring on an inexpensive flat panel display via independent DVI output

Should you choose to upgrade to Adobe Production Studio, you'll be happy to know that Matrox RT.X2 lets you work seamlessly with the other Adobe applications, fully supporting Adobe Dynamic Link and providing WYSIWYG video output support for Adobe After Effects and Photoshop, as well as other industry-leading animation and compositing packages.

Matrox RT.X2 is based on the award-winning Matrox Axio architecture that incorporates Matrox Power of X and Flex technologies to leverage CPU and GPU power. You get a high-performance, future-proof HDV and SD editing environment while joining the ranks of well over 200,000 users worldwide who currently enjoy the amazing value, stable reliability, and superior productivity of Matrox-based realtime nonlinear editing systems.

Key features

- Realtime multi-layer workflows that combine HD and SD material from analog and digital sources
- Realtime Matrox Flex CPU effects – color correction, speed changes, chroma/luma keying and many more
- Realtime and accelerated Matrox Flex GPU effects – 2D/3D DVE, blur/glow/soft focus, shine and many more
- Native HDV and MPEG-2 4:2:2 I-frame HD editing
- Native DV, DVCAM, DVCPRO, and MPEG-2 4:2:2 I-frame SD editing
- Realtime mixing of HD codecs and SD codecs on any timeline
- Realtime mixed-format multi-cam
- Realtime high-quality hardware downscaling for SD output from an HD timeline
- Accelerated export to DVD, multimedia formats including Flash Video, and Adobe Clip Notes
- WYSIWYG for Adobe After Effects and Photoshop, Autodesk Combustion and 3ds Max, eyeon Fusion, and NewTek LightWave 3D with dynamic Alt+Tab switching
- Composite, Y/C, HD/SD analog component input and output
- Full-resolution HD monitoring on an inexpensive flat panel display via independent DVI output
- Includes Adobe Premiere Pro

Realtime Flex CPU effects*

- Primary color correction – proc amp, color match, color balance, input/output level control
- Secondary color correction
- Chroma and luma keying
- Speed changes
- Transitions with soft edges and color borders
- Track matte
- Move & scale
- SD clip upscaling in an HD timeline
- HD clip downscaling in an SD timeline
- Native Adobe Premiere Pro effects – Opacity, Crop, Dip to Black, Black and White, Dissolve, Additive Dissolve

Realtime Flex GPU effects*

- Adobe Motion effect
- Advanced 2D/3D DVE
- Shadow
- Blur/glow/soft focus
- Page curl
- Surface finish
- Pan & scan
- Mask
- Mask blur
- Mask mosaic
- Four-corner pin
- Native Adobe Premiere Pro transitions
- Crystallize
- Lens flare
- Old movie
- Accelerated shine

* Certain complex effects at certain resolutions using certain codecs may not playback in real time, but they still benefit from hardware acceleration. Matrox RT.X2 relies on the power of your system CPU and GPU to process realtime Matrox Flex effects.

Video editing

- Ultra high performance editing with Adobe Premiere Pro
- Mix codecs on the same timeline
- EDL import and export
- AAF export for interoperability with other systems
- Waveform and vectorscope monitors for color correction and broadcast safe output
- User customizable keyboard
- Multiple nestable timelines for managing multi-layer effects and complex timelines
- Accelerated export to DVD, all multimedia formats, and Adobe Clip Notes
- WYSIWYG for compositing and graphics applications
- Realtime mixed-format multi-cam
- Video preview on capture
- 24 fps editing in SD
- Legacy support for RT.X100 AVI files
- Project compatibility with Matrox Axio

www.matrox.com/video

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Audio editing

- Support for multi-channel 5.1 surround sound mixing and monitoring
- Sub-frame audio editing
- Audio sweetening with VST plug-in support
- Voiceover recording in the timeline
- VU meters on capture

System requirements

We continuously validate computers, motherboards, display cards, and storage subsystems and provide guidelines to enable you to make an informed choice as you choose the components for your Matrox RT.X2 editing system or work with your Matrox RT.X2 dealer to specify a turnkey system. Please visit the support section of our website for up-to-date information.

Specifications

General

Full-length PCIe 1x card
FCC Class B, CE Mark Class B

Video features

Inputs and outputs
1394 pass-through composite
Y/C
SD/HD analog component
Independent DVI-D output for full-resolution HD monitoring

Video standards

SD
ITU-R 601
525i at 29.97 (NTSC)
625i at 25 (PAL)
486p at 23.98

HD

1920 x 1080i at 29.97 fps
1920 x 1080i at 25 fps

Internal video processing

8-bit 4:2:2:4
720 x 486
720 x 576
1440 x 1080

Realtime video codecs

Capture

HDV 1080i via 1394
DV, DVCAM, DVCPRO
MPEG-2 4:2:2 I-frame SD from 10 to 25 Mbps
MPEG-2 4:2:2 I-frame HD from 50 to 100 Mbps

Playback

HDV 1080i
DV, DVCAM, DVCPRO
RTX100 legacy format
Matrox Axio offline clips
MPEG-2 4:2:2 I-frame SD from 10 to 25 Mbps
MPEG-2 4:2:2 I-frame HD from 50 to 100 Mbps

Export

HDV 1080i print-to-tape
DV, DVCAM, DVCPRO
MPEG-2 4:2:2 I-frame SD from 10 to 25 Mbps
MPEG-2 4:2:2 I-frame HD from 50 to 100 Mbps

Audio features

16 bit, 48 kHz
Analog audio I/O dependent on system audio
Stereo monitoring



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