

Release 2.0



The ultimate DV editing platform, ready for HDV when you are

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. Matrox RT.X2 gives you maximum realtime productivity for your DV projects and the flexibility to move to HDV at any time. No other platform gives you so many ways to get the job done in record time.

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. The additional benefits you get with Matrox RT.X2 include:

- Many more realtime layers of video and graphics in HD and SD
- Realtime mixed-format timelines
- 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 playback of 32-bit MPEG-2 I-frame AVI files with alpha
- Support for HDV 720p @ 50 and 59.95 (JVC ProHD)
- Realtime mixed-format multi-cam
- Realtime high-quality downscaling from HD to SD
- 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, Bridge, 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.

Matrox RT.X2 key features

- Realtime, mixed-format, 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 1080i, HDV 720p (JVC ProHD), 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 playback of 32-bit MPEG-2 I-frame AVI files with alpha
- 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, Bridge, and Photoshop, Autodesk Combustion and 3ds Max, eyeon Fusion, NewTek LightWave 3D, and Windows Media Player 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 Matrox Flex CPU effects*

- Primary color correction – proc amp, color match, color balance, input/output level control
- Secondary color correction for effects such as color pass and color replace
- 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 and transitions – Opacity, Crop, Dip to Black, Black and White, Dissolve, Additive Dissolve

Realtime Matrox 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
- Impressionist
- Ripple
- Accelerated cube**
- Twirl

* 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.

** Requires GPU with 512 MB.

Video editing

- Ultra high performance editing with Adobe Premiere Pro
- Realtime mixed-format timelines
- 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
- Legacy support for RT.X100 AVI files
- Project compatibility with Matrox Axio

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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 25, 29.97 fps
1280 x 720p at 23.98, 25, 29.97, 50, 59.94 fps

Internal video processing

8-bit 4:2:2:4
720 x 486
720 x 576
1440 x 1080
1280 x 720

Realtime video codecs

Capture

HDV 1080i and HDV 720p 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 and HDV 720p
DV, DVCAM, DVCPRO
RT.X100 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 and HDV 720p 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

* Also available as 32-bit AVI with alpha.



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