



The ultimate realtime DV and/or HDV editing platforms for Adobe Production Studio

If you're a professional video editor concerned about getting maximum productivity from Adobe Premiere Pro and Adobe Production Studio, have a look at the Matrox RT.X2 product line – the ideal solutions for corporate communicators, event videographers, project studios, educational facilities and digital filmmakers. If you're delivering your work in SD, Matrox RT.X2 SD is right for you. If you need the flexibility to edit, view, and output HDV, choose Matrox RT.X2.

Both Matrox RT.X2 SD and Matrox RT.X2 go 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 include:

- Many more realtime layers of video and graphics
- More effects in real time including color correction, chroma/luma keying, speed changes, blur/glow/soft focus, 3D DVE and much more
- Capture from analog sources to compressed MPEG-2 4:2:2 I-frame
- Realtime playback of 32-bit MPEG-2 I-frame AVI files with alpha
- Realtime mixed-format multi-cam
- Accelerated export to DVD and all multimedia formats
- Composite, Y/C, and analog component input and output
- WYSIWYG video output for motion graphics, animation, and compositing applications
- Audio VU meters on capture
- Full-resolution HD monitoring on an inexpensive flat panel display via independent DVI output with Matrox RT.X2

With the Matrox RT.X2 platforms, you'll save time on every project so you can concentrate on creating your best work and building your business.



Key features of Matrox RT.X2

- 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 in HD and SD
- 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

Capture/editing formats	RT.X2	RT.X2 SD
HDV 1080i	X	capture only
HDV 720p	X	—
DV, DVCPRO, DVCAM	X	X
MPEG-2 4:2:2 I-frame SD*	10-50 mbps	10-25 mbps
MPEG-2 4:2:2 I-frame HD at 1440 horizontal resolution*	50-100 mbps	—
Compressed HD for offline editing only	—	—
Playback of legacy RT series AVI files	X	X

* Also available as 32-bit AVI with alpha.

Realtime video effects**

	RT.X2	RT.X2 SD
Three-way primary and secondary color correction	X	X
Super smooth field- or frame-blended slow motion	X	X
Advanced 3D DVE	X	X
Chroma/luma keying	X	X
Dissolve, wipes	X	X
Surface finish	X	X
Blur/glow/soft focus	X	X
Shadow	X	X
Transitions	X	X
Page curls	X	X
Mask, mask mosaic, mask blur	X	X
Pan & Scan	X	X
Four-corner pin	X	X
Track matte	X	X
Native Adobe transitions and effects	X	X
Accelerated shine	X	X
Crystallize	X	X
Old movie	X	X
Lens flare	X	X
Move & scale	X	X
Accelerated cube***	X	X
Ripple	X	X
Twirl	X	X
Impressionist	X	X

** Certain complex effects at certain resolutions using certain codecs may not playback in real time, but they still benefit from hardware acceleration. The Matrox RT.X2 platforms rely on the power of your system CPU and GPU to process realtime Matrox Flex effects. Please visit our website for system configuration guidelines.

*** Requires GPU with 512 MB.

Audio

	2-in/2-out†	2-in/2-out†
RCA audio	X	X
16-bit, 48 kHz	X	X

† The RT.X2 cards rely on your system sound card to capture and output audio.

Key features of Matrox RT.X2 SD

- Realtime multi-layer editing of video, graphics, and effects
- 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 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 in SD
- Realtime HDV clip downscaling in an SD timeline
- Realtime mixed-format multi-cam in an SD timeline
- Accelerated export to DVD, multimedia formats including Flash Video, and Adobe Clip Notes
- WYSIWYG for Adobe After Effects, Photoshop and Bridge, Autodesk Combustion and 3ds Max, eyeon Fusion, NewTek LightWave 3D, and Windows Media Player with dynamic Alt+Tab switching
- Composite, Y/C, and analog component SD input and output
- For use with your copy of Adobe Premiere Pro or Adobe Production Studio

Video editing	RT.X2	RT.X2 SD
Ultra high performance editing with Adobe Premiere Pro	X	X
Realtime mixed-format timelines	X	SD timelines only
EDL import and export	X	X
AAF export for interoperability with other systems	X	X
Waveform and vectorscope monitors	X	X
User customizable keyboard	X	X
Multiple nestable timelines	X	X
Accelerated export to DVD and all multimedia formats	X	X
WYSIWYG for compositing and graphics applications	X	X
Realtime mixed-format multi-cam	X	SD timelines only

Audio editing

	RT.X2	RT.X2 SD
Support for multi-channel 5.1 surround sound mixing and monitoring	X	X
Sub-frame audio editing	X	X
Audio sweetening with VST plug-in support	X	X
Voiceover recording in the timeline	X	X
VU meters on capture	X	X

Video inputs and outputs

	RT.X2	RT.X2 SD
Realtime high quality downscaling from HD to SD	X	—
DVI-D preview output	X	—
SD		
1394	X	X
Composite	X	X
Y/C	X	X
Analog component	X	X
HD		
1394	X	input only
Analog YPbPr component	X	—

Supported editing resolutions

	RT.X2	RT.X2 SD
720p @ 23.98, 25, 29.97, 50, 59.94	X	—
HDV 1080i (1440 x 1080) @ 25, 29.97	X	—
NTSC	X	X
PAL	X	X
486p @ 23.98	X	X

General

PCIe 1x card requirements	full-length	standard

www.matrox.com/video

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