



Professional realtime HD and SD editing platforms for Adobe CS3 Production Premium

If you're a professional video editor concerned about getting maximum productivity from Adobe Premiere Pro CS3 and Adobe CS3 Production Premium, 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 and view HDV or P2 MXF 720p and output HD, 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 CS3 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
- Extensive camera support with Matrox RT.X2 including many new models from Canon, JVC, Panasonic, and Sony
- Native editing of Panasonic P2 MXF 720p and SD files with Matrox RT.X2
- 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

Professional realtime HD and SD editing

- Realtime, mixed-format, multi-layer workflows that combine HD and SD material from analog and digital sources
- Realtime Matrox Flex CPU and Flex GPU effects
- Extensive camera support
- Native HDV 1080i, HDV 1080p, HDV 720p (JVC ProHD), Panasonic P2 MXF 720p, and MPEG-2 4:2:2 I-frame HD editing
- Native DV, DVCAM, DVCPR, Panasonic P2 MXF SD, and MPEG-2 4:2:2 I-frame SD editing
- Realtime mixed-format multi-cam
- Realtime high-quality hardware downscaling for SD output from an HD timeline
- Accelerated export to DVD and all multimedia formats
- 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, HD/SD analog component input and output
- Full-resolution HD monitoring on an inexpensive flat panel display via independent DVI output

	RT.X2	RT.X2 SD
Capture/editing formats		
HDV 1080i	X	capture only
HDV 1080p	X	capture only
HDV 720p	X	—
P2 MXF 720p and SD	X	—
DV, DVCPR, DVCAM	X	X
MPEG-2 4:2:2 I-frame SD*	10-25 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**

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
Adobe garbage mask	X	X
Sphere	X	X
Timecode	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

RCA audio	2-in/2-out†	2-in/2-out†
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

Professional realtime SD editing

- Realtime multi-layer editing of video, graphics, and effects
- Realtime Matrox Flex CPU and Flex GPU effects
- Native DV, DVCAM, DVCPR, and MPEG-2 4:2:2 I-frame SD editing
- Realtime HDV clip downscaling in an SD timeline
- Realtime mixed-format multi-cam in an SD timeline
- Accelerated export to DVD and all multimedia formats
- 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

	RT.X2	RT.X2 SD
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Video editing

Ultra high performance editing with Adobe Premiere Pro CS3	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

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

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

720p @ 23.98, 25, 29.97, 50, 59.94	X	—
HDV 1080i (1440 x 1080) @ 25, 29.97	X	—
HDV 1080p (1440 x 1080) @ 23.98, 25, 29.97	X	—
NTSC	X	X
PAL	X	X
486p @ 23.98, 29.97	X	X
576p @ 25	X	X

General

PCIe 1x card requirements	full-length	standard
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www.matrox.com/video

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