

Release 4.2

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Matrox CompressHD for
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Professional realtime HD and SD editing platforms for Adobe CS4 Production Premium

If you're a professional video editor concerned about getting maximum productivity from Adobe Premiere Pro CS4 and Adobe CS4 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 to edit HDV, XDCAM EX, or P2 MXF 720p and output HD, choose Matrox RT.X2 LE or Matrox RT.X2. If you want to use a DVI display for full resolution HD previews, you'll need RT.X2.

The Matrox RT.X2 platforms go far beyond the capabilities of software-only editing and systems that combine Adobe Premiere Pro CS4 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 and RT.X2 LE including many new models from Canon, JVC, Panasonic, and Sony
- Realtime native editing of Sony XDCAM EX MP4 files with RT.X2 and RT.X2 LE
- Realtime native editing of Panasonic P2 MXF 720p and SD files with Matrox RT.X2 and RT.X2 LE
- Realtime 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
- Realtime MPEG-2 IBP capture from analog and DV sources for DVD authoring
- 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 with calibration control 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. There are a variety of products to choose from. Matrox RT.X2 and RT.X2 LE are available as a value-priced bundle with Adobe Premiere Pro CS4 or as hardware-only for use with your copy of the Adobe software. Matrox RT.X2 SD is available as hardware-only.



Matrox RT.X2 and Adobe Premiere Pro CS4 bundle
Matrox RT.X2 also available as hardware-only



Matrox RT.X2 LE and Adobe Premiere Pro CS4 bundle
Matrox RT.X2 LE also available as hardware-only



Matrox RT.X2 SD hardware-only

Key features of Matrox RT.X2 and RT.X2 LE

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
- Realtime native HDV, XDCAM EX, P2 MXF 720p, and MPEG-2 4:2:2 I-frame HD editing
- Realtime native DV, DVCAM, DVCPRO, Panasonic P2 MXF SD, and MPEG-2 4:2:2 I-frame SD editing
- Realtime mixed-format multi-cam
- Realtime high-quality downscaling for analog SD output from an HD timeline
- Realtime MPEG-2 IBP capture from analog and DV sources for DVD authoring
- WYSIWYG for Adobe After Effects, Encore, and Photoshop; Autodesk Combustion; and NewTek LightWave 3D (32-bit versions) with dynamic Alt+Tab switching
- Composite, Y/C, HD/SD analog component input and output
- Full-resolution HD monitoring with calibration control on an inexpensive flat panel display via independent DVI output on RT.X2
- Matrox RT.X2 and Matrox RT.X2 LE are available bundled with Adobe Premiere Pro CS4 or as hardware-only

Capture/editing formats	RT.X2	RT.X2 LE	RT.X2 SD
HDV 1080i	✓	✓	capture only
HDV 1080p	✓	✓	capture only
HDV 720p	✓	✓	X
XDCAM EX HQ-mode (1080i/p and 720p)	✓	✓	X
XDCAM EX1080i/p SP-mode (1440x1080)	✓	✓	X
P2 MXF 720p and SD	✓	✓	X
DV, DVCPRO, DVCAM	✓	✓	✓
MPEG-2 4:2:2 I-frame SD*	10-25 mbps	10-25 mbps	10-25 mbps
MPEG-2 4:2:2 I-frame HD at 1440 horizontal resolution*	50-100 mbps	50-100 mbps	X
Compressed HD for offline editing	editing only	editing only	X
Playback of legacy RT series AVI files	✓	✓	✓

* Also available as 32-bit AVI with alpha.

Realtime video effects**

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

** 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†	2-in/2-out†
16-bit, 48 kHz	✓	✓	✓

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

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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
- Realtime native DV, DVCAM, DVCPRO, 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
- Realtime MPEG-2 IBP capture from analog and DV sources for DVD authoring
- WYSIWYG for Adobe After Effects, Encore, and Photoshop; Autodesk Combustion; and NewTek LightWave 3D (32-bit versions) with dynamic Alt+Tab switching
- Composite, Y/C, and analog component SD input and output
- Available as hardware-only for use with your copy of Adobe Premiere Pro CS4

Video editing	RT.X2	RT.X2 LE	RT.X2 SD
Ultra high performance editing with Adobe Premiere Pro CS4	✓	✓	✓
Realtime mixed-format timelines	✓	✓	SD timelines only
EDL import and export	✓	✓	✓
AAF export for interoperability with other systems	✓	✓	✓
Waveform and vectorscope monitors	✓	✓	✓
User customizable keyboard	✓	✓	✓
Multiple nestable timelines	✓	✓	✓
WYSIWYG for compositing and graphics applications	✓	✓	✓
Realtime mixed-format multi-cam	✓	✓	SD timelines only

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	✓	✓	✓

Video inputs and outputs

Realtime downscaling of HD timelines to analog SD	✓	✓	X
DVI-D preview output	✓	X	X
SD			
1394	✓	✓	✓
Composite	✓	✓	✓
Y/C	✓	✓	✓
Analog component	✓	✓	✓
HD			
1394	✓	✓	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
XDCAM EX 1080i (1920 x 1080) @ 50, 59.94	✓	✓	X
XDCAM EX 1080p (1920 x 1080) @ 23.98, 25, 29.97	✓	✓	X
XDCAM EX 1080i (1440 x 1080) @ 50, 59.94	✓	✓	X
XDCAM EX 720p (1280 x 720) @ 23.98, 25, 29.97, 50, 59.94	✓	✓	X
NTSC	✓	✓	✓
PAL	✓	✓	✓
486p @ 23.98, 29.97	✓	✓	✓
576p @ 25	✓	✓	✓

General

PCIe 1x card requirements	full-length	standard	standard
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