

Product Selection Table - Matrox Realtime Video Editing Platforms

Capture/editing formats	Axio LE	RT.X2	RT.X2 LE	RT.X2 SD
HDV 1080i	✓	✓	✓	capture only
HDV 1080p	✓	✓	✓	capture only
HDV 720p	✓	✓	✓	X
DVCPRO HD	✓	X	X	X
DV, DVCPRO, DVCAM	✓	✓	✓	✓
DVCPRO50	✓	X	X	X
P2 MXF – DVCPRO50, DVCPRO HD	✓	720p/SD only	720p/SD only	X
XDCAM MXF – DVCAM, IMX	✓	X	X	X
XDCAM HD MXF, 18, 25, 35 mbps Slow & Quick Motion	✓	X	X	X
XDCAM HD422 MXF, 50 mbps Slow & Quick Motion	✓	X	X	X
XDCAM EX HQ-mode (1080i/p and 720p) Slow & Quick Motion	✓	✓	✓	X
XDCAM EX 1080i/p SP-mode (1440x1080) Slow & Quick Motion	✓	✓	✓	X
MPEG-2 4:2:2 I-frame SD*	10-50 mbps	10-25 mbps	10-25 mbps	10-25 mbps
Uncompressed 8-bit SD*	✓	X	X	X
Uncompressed 8-bit HD*	✓	X	X	X
Uncompressed 10-bit SD*	✓	X	X	X
Uncompressed 10-bit HD*	✓	X	X	X
MPEG-2 4:2:2 I-frame HD at 1440 horizontal resolution*	50-300 mbps	50-100 mbps	50-100 mbps	X
MPEG-2 4:2:2 I-frame HD at 1920 horizontal resolution*	50-300 mbps	X	X	X
MPEG-2 4:2:2 I-frame HD at 1280 horizontal resolution*	50-300 mbps	X	X	X
Compressed HD for offline	✓	editing only	editing only	X
Playback of legacy Matrox DigiSuite AVI files	✓	X	X	X
Playback of legacy RT series AVI files	✓	✓	✓	✓

* Also available as 32-bit AVI with alpha.

Realtime video effects**

Three-way primary color correction	✓	✓	✓	✓
Three-way 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	✓	✓	✓	✓
Pan & Scan	✓	✓	✓	✓
Mask mosaic	✓	✓	✓	✓
Mask blur	✓	✓	✓	✓
Four-corner pin	✓	✓	✓	✓
Track matte	✓	✓	✓	✓
Native Adobe transitions	✓	✓	✓	✓
Native Adobe effects – opacity, crop, motion, etc.	✓	✓	✓	✓
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. Matrox Axio LE and the Matrox RT.X2 cards 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 inputs and outputs

RCA audio	X	2-in/2-out†	2-in/2-out†	2-in/2-out†
XLR audio (analog)	2-in/6-out	X	X	X
AES/EBU audio	2-in/6-out	X	X	X
SDI embedded audio	8-in/8-out	X	X	X
1/4" output jack for stereo monitoring	✓	X	X	X

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

	Axio LE	RT.X2	RT.X2 LE	RT.X2 SD
Video inputs and outputs				
Simultaneous HD and SD output	✓	X	X	X
Realtime downscaling of HD timelines to analog SD (and SDI with Axio)	✓	✓	✓	X
DVI-D preview output	X	✓	X	X
SD				
1394	✓	✓	✓	✓
Composite	✓	✓	✓	✓
Y/C	✓	✓	✓	✓
Analog component	✓	✓	✓	✓
SDI – SMPTE 259M	✓	X	X	X
Analog and digital genlock	analog only	X	X	X
HD				
1394	✓	✓	✓	input only
SDI HD – SMPTE 292M	✓	X	X	X
Analog YPbPr component	✓	✓	✓	X
Tri-level genlock	✓	X	X	X

Video editing

Ultra high performance editing with Adobe Premiere Pro	✓	✓	✓	✓
Realtime mixed-format timelines	✓	✓	✓	SD timelines only
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 safe output and complex timelines	✓	✓	✓	✓
WYSIWYG for compositing and graphics applications	✓	✓	✓	✓
Realtime mixed-format multi-cam	✓	✓	✓	SD timelines only
Closed captioning support in NTSC	✓	X	X	X

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	✓	✓	✓	✓

Supported editing resolutions

NTSC	✓	✓	✓	✓
PAL	✓	✓	✓	✓
486p @ 23.98, 29.97	✓	✓	✓	✓
576p @ 25	✓	✓	✓	✓
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
720p @ 23.98, 25, 29.97, 50, 59.94	✓	✓	✓	X
1080i @ 25, 29.97	✓	X	X	X
1080p @ 23.98, 25	✓	X	X	X
1080p @ 24	✓	X	X	X

System

System requirements	workstation 1 PCIe 4x slot full-length	desktop 1 PCIe 1x slot full-length	desktop 1 PCIe 1x slot standard	desktop 1 PCIe 1x slot standard
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