Matrox product selection table

Capture/editing formats

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

* Also available as 32-bit AVI with alpha.

Realtime video effects**

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

** 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

Audio inputs and outputs	Axio LE	Axio HD	Axio SD	RT.X2	RT.X2 LE	RT.X2 SD
RCA audio	—	—	2-in/2-out	2-in/2-out†	2-in/2-out†	2-in/2-out†
XLR audio (analog)	2-in/6-out	2-out	2-in/2-out	—	—	—
AES/EBU audio	2-in/6-out	4-in/8-out	—	—	—	—
SDI embedded audio	8-in/6-out	8-in/8-out	8-in/8-out	—	—	—
1/4" output jack for stereo monitoring	X	—	—	—	—	—

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

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

Video editing	Axio LE	Axio HD	Axio SD	RT.X2	RT.X2 LE	RT.X2 SD
Ultra high performance editing with Adobe Premiere Pro CS3	X	X	X	X	X	X
Realtime mixed-format timelines	X	X	X	X	X	SD timelines only
EDL import and export	X	X	X	X	X	X
AAF export for interoperability with other systems	X	X	X	X	X	X
Waveform and vectorscope monitors for color correction and broadcast safe output	X	X	X	X	X	X
User customizable keyboard	X	X	X	X	X	X
Multiple nestable timelines for managing multi-layer effects safe outputand complex timelines	X	X	X	X	X	X
Accelerated export to DVD, all multimedia formats, and Adobe Clip Notes	X	X	X	X	X	X
WYSIWYG for compositing and graphics applications	X	X	X	X	X	X
Realtime mixed-format multi-cam	X	X	X	X	X	SD timelines only
Closed captioning support in NTSC	X	X	X	—	—	—

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

Supported editing resolutions	Axio LE	Axio HD	Axio SD	RT.X2	RT.X2 LE	RT.X2 SD
NTSC	X	X	X	X	X	X
PAL	X	X	X	X	X	X
486p @ 23.98, 29.97	X	X	X	X	X	X
576p @ 25	X	X	X	X	X	X
HDV 1080i (1440 x 1080) @ 25, 29.97	X	X	X	X	X	—
HDV 1080p (1440 x 1080) @ 23.98, 25, 29.97	X	X	X	X	X	—
720p @ 23.98, 25, 29.97, 50, 59.94	X	X	X	X	X	—
1080i @ 25, 29.97	X	X	X	—	—	—
1080p @ 23.98, 25	X	X	X	—	—	—
1080p @ 24	X	X	—	—	—	—

System	Axio LE	Axio HD	Axio SD	RT.X2	RT.X2 LE	RT.X2 SD
System requirements	workstation 1 PCI-X slot or 1 PCIe 4x slot full-length	workstation 2 PCI-X slots	workstation 2 PCI-X slots	desktop 1 PCIe 1x slot full-length	desktop 1 PCIe 1x slot standard	desktop 1 PCIe 1x slot standard

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