



More Than Just I/O

The award-winning Matrox MXO2 devices can easily be moved among the Windows desktop systems in your facility, installed in an OB van, or taken on the road with a laptop. You get highly-reliable, broadcast-quality video and audio input/output and HDMI video monitoring with the unique Matrox calibration controls including blue-only. You also benefit from a wide variety of HD and SD workflows with Adobe CS5 Production Premium thanks to a 10-bit hardware scaling engine and support for a wealth of file-based formats and industry-standard codecs.

The MAX versions of the Matrox MXO2 devices give you the added advantages of lightning fast high definition H.264 file creation and Matrox RT technology that enhances the Adobe Mercury Playback Engine to provide full-resolution, full-frame-rate, multi-layer, realtime video editing and advanced realtime effects.

Matrox MXO2 Mini provides a cost-effective HD monitoring solution for Avid editing systems.

The Matrox MXO2 family can also be used with Intel-based MacBook Pros, Mac Pros, and Apple Xserve systems.

Enjoy maximum I/O flexibility – edit anything, anywhere!

- Matrox MXO2 Mini – Affordable HDMI/analog video and audio I/O
- Matrox MXO2 LE – Professional HD/SD video and audio I/O
- Matrox MXO2 – Complete HD/SD video and audio I/O
- Matrox MXO2 Rack – Most comprehensive HD/SD video and audio I/O

Key features

- Convenient form factors for use in studio, on set, in the field, and in OB vans
- Works with Windows 7 and Windows Vista (64-bit) laptops and desktops
- Broadcast quality HD/SD video and audio input/output
- Flexible support for leading codecs, file formats, cameras, and workflows
- Captures to HD and SD codecs – 8- and 10-bit uncompressed and highly efficient Matrox MPEG-2 I-frame
- Extensive application support including Adobe Premiere Pro, Encore, Photoshop, After Effects
- Cost-effective HD monitoring for Avid Media Composer 5 and Avid NewsCutter 9 with Matrox MXO2 Mini
- 10-bit HDMI input, output and monitoring with calibration controls including blue-only
- 10-bit realtime hardware up/down/cross conversion on capture and output
- Matrox A/V Tools application for fast capture/playback of audio, video, and still frames
- Three-year hardware warranty and complimentary telephone support

Additional features with Matrox MAX

- Lightning fast H.264 encoding with Adobe Media Encoder, Premiere Pro and Encore
- Matrox RT technology that enhances the Adobe Mercury Playback Engine to provide full-resolution, full-frame-rate, multi-layer, realtime video editing and advanced realtime Matrox Flex CPU effects



Lightning fast H.264 encoding too!

Matrox MAX is a unique technology that speeds up H.264 encoding for resolutions ranging from iPod to HD. It uses a dedicated hardware processor to accelerate the creation of H.264 files for Blu-ray, the web, and mobile devices.

Product Selection Table – Matrox MXO2 I/O Devices for PC

	MXO2 Mini	MXO2 LE	MXO2	MXO2 Rack
Video Input				
Component HD/SD (YUV or RGB)	Yes	Yes	Yes	Yes
SDI HD/SD	No	Yes	Yes	Yes
Y/C	Yes	Yes	Yes	Yes
Composite	Yes	Yes	Yes	Yes
HDMI (YUV or RGB)	Yes	Yes	Yes	Yes
Audio Inputs				
RCA Audio (unbalanced)	2 channels	2 channels	2 channels	No
XLR Audio (balanced)	No	2 channels	2 channels	4 channels
AES/EBU (unbalanced)	No	No	2 channels	4 channels
SDI embedded audio (8 channels)	No	Yes	Yes	Yes
HDMI embedded audio (8 channels)	Yes	Yes	Yes	Yes
Video Outputs				
Component HD/SD (YUV or RGB)	Yes	Yes	Yes	Yes
SDI HD/SD	No	Yes	Yes	Yes
Y/C	Yes	Yes	Yes	Yes
Composite	Yes	Yes	Yes	Yes
HDMI (YUV or RGB)	Yes	Yes	Yes	Yes
Audio Outputs				
RCA audio	2 channels	2 channels	6 channels	No
XLR Audio (balanced)	No	2 channels	4 channels	8 channels
AES/EBU (unbalanced)	No	No	2 channels	4 channels
SDI embedded audio (8 channels)	No	Yes	Yes	Yes
HDMI embedded audio (8 channels)	Yes	Yes	Yes	Yes
Direct surround sound monitoring	No	No	5.1	5.1 and 7.1
Hardware scaling				
Hardware downscaling	Yes	Yes	Yes	Yes
Hardware upscaling	Yes	Yes	Yes	Yes
Cross conversions	Yes	Yes	Yes	Yes
Aspect ratio conversions				
Anamorphic	Yes	Yes	Yes	Yes
Letterbox	Yes	Yes	Yes	Yes
Center cut	Yes	Yes	Yes	Yes
General				
PC and Mac support	Yes	Yes	Yes	Yes
Also available with Matrox MAX H.264 encoding acceleration	Yes	Yes	Yes	Yes
Portable (external box)	Yes	Yes	Yes	rackmount
Runs off field battery	No	Yes	Yes	No
Laptop support	Yes	Yes	Yes	Yes
Adobe CS5 Production Premium support	Yes	Yes	Yes	Yes
WYSIWYG video output for Adobe After Effects, Encore and Photoshop	Yes	Yes	Yes	Yes
HD monitoring with Avid editing systems	Yes	No	No	No
Genlock with phase timing	No	Yes	Yes	w/loop through
HDMI monitor calibration utility	Yes	Yes	Yes	Yes
Scrub/pause modes	Yes	Yes	Yes	Yes
Open codec support	Yes	Yes	Yes	Yes
Matrox A/V Tools app	Yes	Yes	Yes	Yes
Extra features for Adobe Premiere Pro CS5				
Matrox Flex CPU effects and transitions	Yes	Yes	Yes	Yes
Matrox MPEG-2 I-frame intermediate codec	Yes	Yes	Yes	Yes
Matrox RT realtime editing (MAX option required)	Yes	Yes	Yes	Yes
Capture of HD and SD video to 8- and 10-bit uncompressed AVI files	Yes	Yes	Yes	Yes
Playback of 32-bit MPEG-2 I-frame AVI files with Alpha	Yes	Yes	Yes	Yes
RS-422 device control	No	Yes	Yes	Yes

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