

MATROX I/O SOLUTIONS

EDIT • ENCODE H.264 • STREAM



matrox® MXO2™ Family



matrox® Mojito™ MAX



Take advantage of the only I/O solutions on the market that let you deliver H.264 files up to five times faster than software alone without sacrificing quality! With the full range of Matrox MXO2 MAX devices and the Matrox Mojito MAX card to choose from, you are sure to find the best I/O product tailored just for you. Capture, scale, monitor, and output in any format you need – from analog and HDMI to HD-SDI. Monitor your 5.1 and 7.1 surround sound mixes using professional connections. Turn your HDMI screen into a professional grade video monitor with the unique Matrox HDMI Calibration Utility. Connect anywhere, Mac and PC, via Thunderbolt, PCIe, or ExpressCard/34 with the same versatile MXO2 unit – just by switching adapters.

Get the most from your favorite editing, H.264 encoding and streaming apps!



Only Matrox I/O devices deliver H.264 video up to 5 times faster without sacrificing quality

If you're delivering H.264 content for the web, mobile devices, Apple TV, and Blu-ray discs, you know how painful it can be to wait for the long encoding times needed to create high-quality video files using software only. You might even be tempted to sacrifice quality for speed. With Matrox I/O devices, you no longer need to even consider making that trade off.

Get the most from your favorite apps

Matrox I/O devices amplify your productivity with all the industry's leading editing and content creation software for Mac and PC, as well as a wide variety of H.264 encoding, Blu-ray authoring, streaming, live production, and broadcast applications.



LIGHTWORKS

*Software support for the MXO2 family is provided by Editshare

EDIUS Pro 7

*Software support for the MXO2 LE is provided by Grass Valley



All the I/Os you need

Matrox I/O devices give you a full range of professional audio and video inputs and outputs, genlock, RS-422 machine control, and 5.1/7.1 surround sound monitoring.

Realtime 10-bit hardware scaling

Deliver projects in all the formats your clients demand. Matrox I/O devices provide high-quality up/down/cross conversion on capture and output.

1920 X 1080



SD



1280 X 720



Inexpensive HD monitoring

The unique Matrox HDMI Calibration Utility lets an HDMI monitor perform like a broadcast HD/SD monitor with 10-bit 4:2:2 color precision. You won't need to buy expensive HD monitoring equipment to benefit from a true-color display you can trust, even for color grading.

Built to last

Engineered without the need for a failure-prone cooling fan, the rugged aluminum chassis on Matrox MXO2 devices act as a heat sink to dissipate internal heat for a long reliable life and noise-free operation. Only the highest quality components go into Matrox I/O devices.



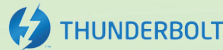


Free Matrox productivity apps

Free productivity tools are included with every Matrox I/O device for the PC. Matrox MAX H.264 Capture lets you capture directly to H.264 files for the web, mobile devices, and Blu-ray. Matrox A/V Tools let you quickly and easily capture and playback video and still frames for use with Adobe Premiere Pro.

Edit anywhere

Matrox MXO2 devices are the only I/O products that go wherever you need them – Mac and PC; laptop and desktop; in the studio, in an OB van, and on set. Matrox MXO2 LE MAX can even run off of standard field batteries. For maximum versatility, they connect to your computer via a PCI Express adapter card, an ExpressCard/34 adapter, or a Thunderbolt adapter.



Closed captioning

Matrox SDI I/O products provide acquisition, monitoring, and delivery of closed captions with Final Cut Pro, Adobe Premiere Pro, and Avid Media Composer on the Mac. In addition, They can also let you use standard (non-closed captioning enabled) monitors to preview HD timelines with closed captioning data by overlaying decoded closed captioning text over the previewed video. This is the ideal cost-effective way to see your closed captions, even when you're using an inexpensive HDMI display as your program monitor with Adobe Premiere Pro.

Stream from any camera, anywhere

Native support for Telestream Wirecast for Windows includes the easy-to-use Matrox ISO recording feature. Your Matrox product not only sends a video feed to Wirecast for streaming, it simultaneously creates a high-quality ISO recording of the original video and audio feed on disk—ready for post-event editing. You can record using a variety of codecs including the high-quality Matrox MPEG 2 I-Frame codec, DV, DVCPRO, DVCPRO50 and DVCPRO HD. Matrox ISO recording also supports direct capture to H.264 on Matrox I/O products with MAX. Multiple Matrox I/O products can be used to provide multi-channel capture for streaming and ISO recording.

Support for Telestream Wirecast for Mac OS is provided via QuickTime. Matrox I/O products are also ideal for – Adobe Flash Media Live Encoder, Livestream, Microsoft Expression, or QuickTime Broadcaster. Connect to any HD or SD video source via SDI, HDMI or analog. Stream from anywhere there's an internet connection.



Add one-cable convenience with Matrox MXO2 Dock

Save time everyday—come and go without disconnecting and re-connecting all your devices. One Thunderbolt connection does it all. Tame the cables cluttering your desk and save wear-and-tear on your laptop.

CHOOSE THE MATROX I/O DEVICE THAT'S RIGHT FOR YOU



MXO2 Mini
MXO2 Mini MAX



MXO2 LE
MXO2 LE MAX



MXO2
MXO2 MAX



MXO2 Rack MAX



Mojito MAX

Lightning Fast H264 Encoding

MAX H.264 encoding acceleration	MAX version	MAX version	MAX version	Yes	Yes
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Video Input

Component HD/SD (YUV or RGB)	Yes	Yes	Yes	Yes	Yes
SDI HD/SD	No	Yes	Yes	Yes	Yes
Y/C	Yes	Yes	Yes	Yes	Yes
Composite	Yes	Yes	Yes	Yes	Yes
HDMI (YUV or RGB)	Yes	Yes	Yes	Yes	Yes

Audio Inputs

RCA audio (unbalanced)	2 channels	2 channels	2 channels	No	No
XLR audio (balanced)	No	2 channels	2 channels	4 channels	2 channels
AES/EBU (unbalanced)	No	No	2 channels	4 channels	2 channels
SDI embedded audio (16 channels on Mac, 8 channels on PC)	No	Yes	Yes	Yes	Yes
HDMI embedded audio (8 channels)	Yes	Yes	Yes	Yes	Yes

Video Outputs

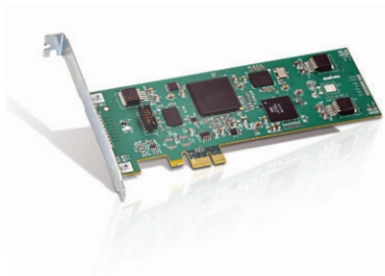
Component HD/SD (YUV or RGB)	Yes	Yes	Yes	Yes	Yes
SDI HD/SD	No	Yes	Yes	Yes	Yes
Y/C	Yes	Yes	Yes	Yes	Yes
Composite	Yes	Yes	Yes	Yes	Yes
HDMI (YUV or RGB)	Yes	Yes	Yes	Yes	Yes

Audio Outputs

RCA audio	2 channels	2 channels	6 channels	No	2 channels
XLR audio (balanced)	No	2 channels	4 channels	8 channels	4 channels
AES/EBU (unbalanced)	No	No	2 channels	4 channels	2 channels
SDI embedded audio (16 channels on Mac, 8 channels on PC)	No	Yes	Yes	Yes	Yes
HDMI embedded audio (8 channels)	Yes	Yes	Yes	Yes	Yes
Direct surround sound monitoring	No	No	5.1	5.1 and 7.1	No

General

Runs off field battery	No	Yes	Yes	No	No
Genlock with phase timing	No	Yes	Yes	w/loop through	Yes
RS-422 device control	No	Yes	Yes	Yes	Yes



Matrox CompressHD – The must have accessory for lightning fast H.264 encoding!

Get the H.264 encoding performance you've been looking for — just add Matrox CompressHD to your desktop system!

Matrox CompressHD implements Matrox MAX technology in an amazingly affordable half-length PCIe x1 card. It works in desktop systems with or without a video I/O device and extends the life of your current system investment, giving you the power you need to deliver today's premium H.264 formats faster than ever.

www.matrox.com/video

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Digital Video Solutions

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