

Matrox MXO2 Competitive Positioning

How does Matrox MXO2 compare with other products on the market?

Matrox MXO2 vs. AJA IoHD

Matrox MXO2 vs. AJA Kona3

Matrox MXO2 vs. AJA Kona LHe

Matrox MXO2 vs. Blackmagic DeckLink HD Extreme

Matrox MXO2 vs. Blackmagic Multibridge Pro

Matrox MXO2 vs. Blackmagic Multibridge Eclipse

Matrox MXO2 vs. Motu V4HD



Matrox MXO2 vs. AJA IoHD

1. **Matrox MXO2 costs substantially less** – \$1,595 vs. about \$3,000.
2. **Matrox MXO2 is truly portable** – fits easily into a laptop bag, can run off a field battery, weighs 3 ½ lbs vs. 9 ½ lbs.
3. **Matrox MXO2 is road ready and rugged** – built entirely on one circuit board, MXO2 is a robust design whereas IoHD has many stacked circuit boards which can become loose over time.
4. **Matrox MXO2 provides direct surround sound monitoring** – IoHD has only stereo RCA output for monitoring.
5. **Matrox MXO2 works with a variety of codecs, not just ProRes** – there is no need to transcode your native XDCAM, P2, HDV, and DV footage, for example.
6. **Matrox MXO2 does not use the FW800 bus** – the PCIe bus used by MXO2 provides higher bandwidth so you are not limited to just compressed workflows, you can work with all formats including uncompressed 10-bit HD. You also have the flexibility to use popular FireWire storage solutions with MXO2, even on towers.

Feature	Matrox MXO2	AJA IoHD
Price	\$1,595	\$3,000
Outputs		
Component SD	✓	✓
Component HD	✓	✓
SDI HD/SD (2)	✓	✓
Y/C	✓	✓
Composite	✓	✓
RCA audio (2 or more channels - unbalanced)	✓	✓
Embedded SDI audio (8 or more channels)	✓	✓
XLR audio (4 or more channels - balanced)	✓	✓
AES/EBU (2 or more channels - unbalanced)	✓	✓
HDMI	✓	✓
Embedded HDMI audio (8 channels)	✓	✓
Built-in 5.1 surround sound monitoring	✓	X
Inputs		
Component SD	✓	✓
Component HD	✓	✓
SDI HD/SD	✓	✓
Embedded SDI audio (8 or more channels)	✓	✓
Y/C	✓	✓
Composite	✓	✓
XLR audio (2 or more channels - balanced)	✓	✓
RCA audio (2 or more channels - unbalanced)	✓	✓
AES/EBU (2 or more channels - unbalanced)	✓	✓
HDMI	✓	✓
Embedded HDMI audio (8 channels)	✓	✓

Feature	Matrox MXO2	AJA IoHD
Hardware Scaling		
Dynamic RT acceleration	✓	X
Hardware downscaling	✓	✓
Hardware upscaling	✓	✓
Hardware cross conversions	✓	✓
Aspect Ratio Conversions		
Anamorphic	✓	✓
Letterbox	✓	✓
Center Cut	✓	✓
General		
RS-422	✓	✓
Monitor calibration utility	✓	X
Closed captioning support in NTSC	✓	*
Genlock phase timing	✓	*
1:1 pixel mapping	✓	*
Scrub/pause modes	✓	*
Proc amp on input	✓	*
Open codec support	✓	X
WYSIWYG (Apple Motion, Adobe After Effects, Autodesk Combustion)	✓	✓
Final Cut Studio 2 support	✓	✓
MacBook Pro and Mac Pro support	✓	✓
Can run on a field battery	✓	X
Hot swappable	Laptop only	✓
Weighs under 4 lbs.	✓	X
Warranty	3 years	3 years

* information unavailable

Matrox MXO2 vs. AJA Kona3

1. Matrox MXO2 costs substantially less – \$1,595 vs. about \$2,550.
2. Matrox MXO2 is a professional breakout box – with Kona3 the breakout box is separate, increasing your cost by about \$260.
3. Matrox MXO2 works with Mac Pros and MacBook Pros – Kona3 works only with towers.
4. Matrox MXO2 provides analog, SDI, and HDMI I/O – Kona3 has analog preview output and SDI I/O only.
5. Matrox MXO2 provides direct surround sound monitoring and XLR audio – Kona3 has only stereo RCA output for monitoring.

Feature	Matrox MXO2	AJA Kona3
Price	\$1,595	\$2,800 with breakout box
Outputs		
Component SD	✓	✓
Component HD	✓	✓

Feature	Matrox MXO2	AJA Kona3
Outputs (continued)		
SDI HD/SD (2)	✓	✓
Y/C	✓	✓
Composite	✓	✓
RCA audio (2 or more channels - unbalanced)	✓	✓
Embedded SDI audio (8 or more channels)	✓	✓
XLR audio (4 or more channels - balanced)	✓	X
AES/EBU (2 or more channels - unbalanced)	✓	✓
HDMI	✓	X
Embedded HDMI audio (8 channels)	✓	X
Built-in 5.1 surround sound monitoring	✓	X
Inputs		
Component SD	✓	X
Component HD	✓	X
SDI HD/SD	✓	✓
Embedded SDI audio (8 or more channels)	✓	✓
Y/C	✓	X
Composite	✓	X
XLR audio (2 or more channels - balanced)	✓	X
RCA audio (2 or more channels - unbalanced)	✓	X
AES/EBU (2 or more channels - unbalanced)	✓	✓
HDMI	✓	X
Embedded HDMI audio (8 channels)	✓	X
Hardware Scaling		
Dynamic RT acceleration	✓	✓
Hardware downscaling	✓	✓
Hardware upscaling	✓	✓
Hardware cross conversions	✓	✓
Aspect Ratio Conversions		
Anamorphic	✓	✓
Letterbox	✓	✓
Center Cut	✓	✓
General		
RS-422	✓	✓
Monitor calibration utility	✓	X
Closed captioning support in NTSC	✓	*
Genlock phase timing	✓	*
1:1 pixel mapping	✓	*
Scrub/pause modes	✓	*

Feature	Matrox MXO2	AJA Kona3
General (continued)		
Proc amp on input	✓	*
Open codec support	✓	✓
WYSIWYG (Apple Motion, Adobe After Effects, Autodesk Combustion)	✓	✓
Final Cut Studio 2 support	✓	✓
MacBook Pro and Mac Pro support	✓	Tower only
Can run on a field battery	✓	Not applicable
Hot swappable	Laptop only	Not applicable
Weighs under 4 lbs.	✓	Not applicable
Warranty	3 years	3 years

* information unavailable

Matrox MXO2 vs. AJA Kona LHe

1. Matrox MXO2 is a professional breakout box – with Kona LHe the breakout box is separate, increasing your cost by about \$290.
2. Matrox MXO2 works with Mac Pros and MacBook Pros – Kona LHe works only with towers.
3. Matrox MXO2 provides HDMI I/O – Kona LHe has no HDMI support.
4. Matrox MXO2 provides direct surround sound monitoring and 4 XLR audio outputs – Kona LHe has only stereo RCA output for monitoring and 2 XLR outputs.
5. Matrox MXO2 provides realtime 10-bit hardware up/down/cross conversion – Kona LHe offers only downscaling.

Feature	Matrox MXO2	AJA Kona LHe
Price	\$1,595	\$1,800 with breakout box
Outputs		
Component SD	✓	✓
Component HD	✓	✓
SDI HD/SD (2)	✓	✓
Y/C	✓	✓
Composite	✓	✓
RCA audio (2 or more channels - unbalanced)	✓	✓
Embedded SDI audio (8 or more channels)	✓	✓
XLR audio (4 or more channels - balanced)	✓	X
AES/EBU (2 or more channels – unbalanced)	✓	✓
HDMI	✓	X
Embedded HDMI audio (8 channels)	✓	X
Built-in 5.1 surround sound monitoring	✓	X
Inputs		
Component SD	✓	✓
Component HD	✓	✓
SDI HD/SD	✓	✓

Feature	Matrox MXO2	AJA Kona LHe
Inputs (continued)		
Embedded SDI audio (8 or more channels)	✓	✓
Y/C	✓	✓
Composite	✓	✓
XLR audio (2 or more channels - balanced)	✓	✓
RCA audio (2 or more channels - unbalanced)	✓	✓
AES/EBU (2 or more channels - unbalanced)	✓	✓
HDMI	✓	X
Embedded HDMI audio (8 channels)	✓	X
Hardware Scaling		
Dynamic RT acceleration	✓	✓
Hardware downscaling	✓	✓
Hardware upscaling	✓	X
Hardware cross conversions	✓	X
Aspect Ratio Conversions		
Anamorphic	✓	✓
Letterbox	✓	✓
Center Cut	✓	✓
General		
RS-422	✓	✓
Monitor calibration utility	✓	X
Closed captioning support in NTSC	✓	*
Genlock phase timing	✓	*
1:1 pixel mapping	✓	*
Scrub/pause modes	✓	*
Proc amp on input	✓	*
Open codec support	✓	✓
WYSIWYG (Apple Motion, Adobe After Effects, Autodesk Combustion)	✓	✓
Final Cut Studio 2 support	✓	✓
MacBook Pro and Mac Pro support	✓	Tower only
Can run on a field battery	✓	Not applicable
Hot swappable	Laptop only	Not applicable
Weighs under 4 lbs.	✓	Not applicable
Warranty	3 years	3 years

* information unavailable

Matrox MXO2 vs. Blackmagic DeckLink HD Extreme

1. Matrox MXO2 works with Mac Pros and MacBook Pros – DeckLink HD Extreme works only with towers.
2. Matrox MXO2 fits in a single PCIe slot – DeckLink HD Extreme occupies 2 slots.
3. Matrox MXO2 is a professional breakout box – DeckLink HD Extreme does not have a breakout box option.
4. Matrox MXO2 offers simultaneous HD and SD output – DeckLink HD Extreme does not.
5. Matrox MXO2 provides direct surround sound monitoring and more audio I/Os – DeckLink HD Extreme supports only two channels of audio via AES/EBU, XLR, and HDMI.
6. Matrox MXO2 provides 10-bit realtime hardware up/down/cross conversion – DeckLink HD Extreme depends on your CPU to do all scaling, and “center-cut” aspect ratio conversion is not supported.
7. Matrox MXO2 comes with a 3-year warranty – DeckLink HD Extreme comes with a 1-year warranty.

Feature	Matrox MXO2	Blackmagic DeckLink HD Extreme
Price	\$1,595	\$995
Outputs		
Component SD	✓	✓
Component HD	✓	✓
SDI HD/SD (2)	✓	✓
Y/C	✓	✓
Composite	✓	✓
RCA audio (2 or more channels - unbalanced)	✓	X
Embedded SDI audio (8 or more channels)	✓	✓
XLR audio (4 or more channels - balanced)	✓	X
AES/EBU (2 or more channels - unbalanced)	✓	✓
HDMI	✓	✓
Embedded HDMI audio (8 channels)	✓	X
Built-in 5.1 surround sound monitoring	✓	X
Inputs		
Component SD	✓	✓
Component HD	✓	✓
SDI HD/SD	✓	✓
Embedded SDI audio (8 or more channels)	✓	✓
Y/C	✓	✓
Composite	✓	✓
XLR audio (2 or more channels - balanced)	✓	✓
RCA audio (2 or more channels - unbalanced)	✓	X
AES/EBU (2 or more channels - unbalanced)	✓	✓
HDMI	✓	✓
Embedded HDMI audio (8 channels)	✓	X
Hardware Scaling		
Dynamic RT acceleration	✓	X
Hardware downscaling	✓	X

Feature	Matrox MXO2	Blackmagic DeckLink HD Extreme
Hardware Scaling (continued)		
Hardware upscaling	✓	X
Hardware cross conversions	✓	X
Aspect Ratio Conversions		
Anamorphic	✓	✓
Letterbox	✓	✓
Center Cut	✓	X
General		
RS-422	✓	✓
Monitor calibration utility	✓	X
Closed captioning support in NTSC	✓	*
Genlock phase timing	✓	*
1:1 pixel mapping	✓	*
Scrub/pause modes	✓	*
Proc amp on input	✓	*
Open codec support	✓	✓
WYSIWYG (Apple Motion, Adobe After Effects, Autodesk Combustion)	✓	✓
Final Cut Studio 2 support	✓	✓
MacBook Pro and Mac Pro support	✓	Tower only
Can run on a field battery	✓	Not applicable
Hot swappable	Laptop only	Not applicable
Weighs under 4 lbs.	✓	Not applicable
Warranty	3 years	1 year

* information unavailable

Matrox MXO2 vs. Blackmagic Multibrige Pro

1. Matrox MXO2 works with Mac Pros and MacBook Pros – Multibrige Pro works only with towers.
2. Matrox MXO2 provides direct surround sound monitoring and more audio I/Os – Multibrige Pro has only 2 channels of unbalanced audio output via RCA, 2-in/2-out XLR, and 2 channels of support for HDMI audio.
3. Matrox MXO2 provides 10-bit realtime hardware up/down/cross conversion – Multibrige Pro depends on your CPU to do all scaling, and “center-cut” aspect ratio conversion is not supported.

Feature	Matrox MXO2	Blackmagic Multibrige Pro
Price	\$1,595	\$1,595
Outputs		
Component SD	✓	✓
Component HD	✓	✓
SDI HD/SD (2)	✓	✓
Y/C	✓	✓
Composite	✓	✓

Feature	Matrox MXO2	Blackmagic Multibrige Pro
Outputs (continued)		
RCA audio (2 or more channels - unbalanced)	√	√
Embedded SDI audio (8 or more channels)	√	√
XLR audio (4 or more channels - balanced)	√	X
AES/EBU (2 or more channels - unbalanced)	√	√
HDMI	√	√
Embedded HDMI audio (8 channels)	√	X
Built-in 5.1 surround sound monitoring	√	X
Inputs		
Component SD	√	√
Component HD	√	√
SDI HD/SD	√	√
Embedded SDI audio (8 or more channels)	√	√
Y/C	√	√
Composite	√	√
XLR audio (2 or more channels - balanced)	√	√
RCA audio (2 or more channels - unbalanced)	√	X
AES/EBU (2 or more channels - unbalanced)	√	√
HDMI	√	√
Embedded HDMI audio (8 channels)	√	X
Hardware Scaling		
Dynamic RT acceleration	√	X
Hardware downscaling	√	√
Hardware upscaling	√	√
Hardware cross conversions	√	X
Aspect Ratio Conversions		
Anamorphic	√	√
Letterbox	√	√
Center Cut	√	X
General		
RS-422	√	√
Monitor calibration utility	√	X
Closed captioning support in NTSC	√	*
Genlock phase timing	√	*
1:1 pixel mapping	√	*
Scrub/pause modes	√	*

Feature	Matrox MXO2	Blackmagic Multibrige Pro
General (continued)		
Proc amp on input	✓	*
Open codec support	✓	✓
WYSIWYG (Apple Motion, Adobe After Effects, Autodesk Combustion)	✓	✓
Final Cut Studio 2 support	✓	✓
MacBook Pro and Mac Pro support	✓	Tower only
Can run on a field battery	✓	Not applicable
Hot swappable	Laptop only	Not applicable
Weighs under 4 lbs.	✓	Not applicable
Warranty	3 years	3 years

* information unavailable

Matrox MXO2 vs. Blackmagic Multibrige Eclipse

1. Matrox MXO2 costs substantially less – \$1,595 vs. about \$2,570.
2. Matrox MXO2 works with Mac Pros and MacBook Pros – Multibrige Pro works only with towers.
3. Matrox MXO2 provides direct surround sound monitoring and 8 channels of support for HDMI audio – Multibrige Eclipse has only 2 channels of unbalanced audio output via RCA and 2 channels of support for HDMI audio.
4. Matrox MXO2 provides 10-bit realtime hardware up/down/cross conversion – Multibrige Eclipse depends on your CPU to do all scaling, and “center-cut” aspect ratio conversion is not supported.

Feature	Matrox MXO2	Blackmagic Multibrige Eclipse
Price	\$1,595	\$2,570
Outputs		
Component SD	✓	✓
Component HD	✓	✓
SDI HD/SD (2)	✓	✓
Y/C	✓	✓
Composite	✓	✓
RCA audio (2 or more channels - unbalanced)	✓	✓
Embedded SDI audio (8 or more channels)	✓	✓
XLR audio (4 or more channels - balanced)	✓	✓
AES/EBU (2 or more channels – unbalanced)	✓	✓
HDMI	✓	✓
Embedded HDMI audio (8 channels)	✓	X
Built-in 5.1 surround sound monitoring	✓	X
Inputs		
Component SD	✓	✓
Component HD	✓	✓
SDI HD/SD	✓	✓

Feature	Matrox MXO2	Blackmagic Multibrige Eclipse
Inputs (continued)		
Embedded SDI audio (8 or more channels)	√	√
Y/C	√	√
Composite	√	√
XLR audio (2 or more channels - balanced)	√	√
RCA audio (2 or more channels - unbalanced)	√	X
AES/EBU (2 or more channels - unbalanced)	√	√
HDMI	√	√
Embedded HDMI audio (8 channels)	√	X
Hardware Scaling		
Dynamic RT acceleration	√	X
Hardware downscaling	√	√
Hardware upscaling	√	√
Hardware cross conversions	√	X
Aspect Ratio Conversions		
Anamorphic	√	√
Letterbox	√	√
Center Cut	√	X
General		
RS-422	√	√
Monitor calibration utility	√	X
Closed captioning support in NTSC	√	*
Genlock phase timing	√	*
1:1 pixel mapping	√	*
Scrub/pause modes	√	*
Proc amp on input	√	*
Open codec support	√	√
WYSIWYG (Apple Motion, Adobe After Effects, Autodesk Combustion)	√	√
Final Cut Studio 2 support	√	√
MacBook Pro and Mac Pro support	√	Tower only
Can run on a field battery	√	Not applicable
Hot swappable	Laptop only	Not applicable
Weighs under 4 lbs.	√	Not applicable
Warranty	3 years	3 years

* information unavailable

Matrox MXO2 vs. Motu V4HD

1. Matrox MXO2 costs substantially less – \$1,595 vs. about \$2,750 plus a separate breakout cable if you want access to more than 4 channels of audio.
2. Matrox MXO2 is truly portable – fits easily into a laptop bag, can run off a field battery, weighs 3 ½ lbs vs. 14 lbs.
3. Matrox MXO2 provides HDMI input and output – V4HD does not have HDMI input.
4. Matrox MXO2 works with a variety of codecs, not just DVCPRO HD and ProRes – there is no need to transcode your native XDCAM, P2, HDV, and DV footage, for example.

Feature	Matrox MXO2	Motu V4HD
Price	\$1,595	\$2,750
Outputs		
Component SD	✓	✓
Component HD	✓	✓
SDI HD/SD (2)	✓	✓
Y/C	✓	✓
Composite	✓	✓
RCA audio (2 or more channels - unbalanced)	✓	X
Embedded SDI audio (8 or more channels)	✓	✓
XLR audio (4 or more channels - balanced)	✓	✓
AES/EBU (2 or more channels - unbalanced)	✓	✓
HDMI	✓	✓
Embedded HDMI audio (8 channels)	✓	✓
Built-in 5.1 surround sound monitoring	✓	X
Inputs		
Component SD	✓	✓
Component HD	✓	✓
SDI HD/SD	✓	✓
Embedded SDI audio (8 or more channels)	✓	✓
Y/C	✓	✓
Composite	✓	✓
XLR audio (2 or more channels - balanced)	✓	✓
RCA audio (2 or more channels - unbalanced)	✓	X
AES/EBU (2 or more channels - unbalanced)	✓	✓
HDMI	✓	X
Embedded HDMI audio (8 channels)	✓	X
Hardware Scaling		
Dynamic RT acceleration	✓	X
Hardware downscaling	✓	✓
Hardware upscaling	✓	✓
Hardware cross conversions	✓	X

Feature	Matrox MXO2	Motu V4HD
Aspect Ratio Conversions		
Anamorphic	✓	✓
Letterbox	✓	✓
Center Cut	✓	✓
General		
RS-422	✓	✓
Monitor calibration utility	✓	X
Closed captioning support in NTSC	✓	*
Genlock phase timing	✓	*
1:1 pixel mapping	✓	*
Scrub/pause modes	✓	*
Proc amp on input	✓	*
Open codec support	✓	X
WYSIWYG (Apple Motion, Adobe After Effects, Autodesk Combustion)	✓	X
Final Cut Studio 2 support	✓	✓
MacBook Pro and Mac Pro support	✓	✓
Can run on a field battery	✓	X
Hot swappable	Laptop only	✓
Weighs under 4 lbs.	✓	X
Warranty	3 years	*

* information unavailable