

XPression™ Video I/O Card and 3rd Party Driver Specifications

This document lists the specifications for the supported video I/O cards and the 3rd party drivers for the various video I/O cards supported by the XPression systems.

Please feel free to contact us with questions at solutions@rossvideo.com

I/O Specifications

Vendor	HD-SDI	Audio I/O	AES	LTC I/O	Maximum XPression F/K Output Pairs	XPression Video Inputs
Matrox XMIO2 12 ¹	1 in/2 out + reference	16 embedded HD SDI	8 in/16 out ²	RP-188 only	1	1
Matrox XMIO2 22 ¹	2 in/4 out + reference	16 embedded HD SDI	8 in/16 out ²	RP-188 only	2	2
Matrox XMIO2 24 ¹	4 in/4 out + reference	16 embedded HD SDI	8 in/16 out ²	RP-188 only	2	4
AJA IoXT ³	2 in/2 out + reference	16 embedded HD SDI	—	RP-188 only	1	2
AJA Io4K ^{3 4}	4 bi-directional + reference	16 embedded HD SDI	—	RP-188 only	2 (configurable)	Configurable
AJA Corvid22 ⁵	2 in/2 out + reference	16 embedded HD SDI	—	RP-188 only	1	2
AJA Corvid24 ⁶	4 bi-directional + reference	16 embedded HD SDI	—	RP-188 only	2 (configurable)	Configurable
AJA Corvid88 ⁷	8 bi-directional + reference	16 embedded HD SDI	—	RP-188 only	4 (configurable) One 4x3G F/K pair for UHD	Configurable
AJA Kona 3G ⁴	2 in/2 out + reference	16 embedded HD SDI	—	RP-188 only	1	2
Blackmagic 4K Extreme ⁸	2 in/2 out	16 embedded HD SDI	—	Not supported	1	2
Blackmagic Quad ^{4 8}	8 bi-directional	16 embedded HD SDI	—	Not supported	4 (configurable)	Configurable
Blackmagic Duo ^{4 8}	4 bi-directional	16 embedded HD SDI	—	Not supported	2 (configurable)	Configurable
Bluefish444 Supernova ^{4 9}	4 bi-directional + reference	16 embedded HD SDI	—	Not supported	2 (configurable)	Configurable
Bluefish444 Supernova ^{+4 10}	4 bi-directional + reference	16 embedded HD SDI	—	Not supported	2 (configurable)	Configurable

1. XPression Studio/BlueBox single and dual channel variants.
2. Per video stream, with no audio down the alpha channels unless using the FILL2 option.

3. XPression GO!.
4. User supplied. Not tested by Ross.
5. XPression Prime 2-channel output.
6. Supported for user supplied platforms for XPression Studio, Prime, and BlueBox.
7. Used for 4K support.
8. No hardware framebuffers. Cannot regulate frame accuracy.
9. Full length card.
10. Shorter card. Fifth port is “copy” of port 2 output.

3rd Party Drivers to Support XPression Video I/O Cards

Vendor	XPression Version 6.1	XPression Version 6.2	XPression Version 6.5 (and higher)
Matrox XMIO2 12	7.5.2.457	7.5.2.457	9.4.2.9297
Matrox XMIO2 22	7.5.2.457	7.5.2.457	9.4.2.9297
Matrox XMIO2 24	7.5.2.457	7.5.2.457	9.4.2.9297
AJA IoXT	10.3.5.25	10.3.5.25	12.3.7.85 10.3.5.25 (for AJA legacy)
AJA Io4K	—	—	12.3.7.85 10.3.5.25 (for AJA legacy)
AJA Corvid22	10.3.5.25	10.3.5.25	12.3.7.85 10.3.5.25 (for AJA legacy)
AJA Corvid24	10.3.5.25	10.3.5.25	12.3.7.85 10.3.5.25 (for AJA legacy)
AJA Corvid88	—	—	12.3.7.85 10.3.5.25 (for AJA legacy)
AJA Kona 3G	10.3.5.25	10.3.5.25	12.3.7.85 10.3.5.25 (for AJA legacy)
Blackmagic 4K Extreme	9.5.3	9.5.3	9.5.3
Blackmagic Quad	9.5.3	9.5.3	9.5.3
Blackmagic Duo	9.5.3	9.5.3	9.5.3
Bluefish444 Supernova	5.10.2.9	5.10.2.9	5.10.2.9
Bluefish444 Supernova+	5.10.2.9	5.10.2.9	5.10.2.9

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