

November 2024

Supported Formats and Codecs



DaVinci Resolve



Leading the Creative Video Revolution

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MacOS

Windows

Rocky Linux

MacOS

Video					
Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
Apple ProRes	imf	-	-	422, 422 HQ, 4444, 4444 XQ	422, 422 HQ, 4444, 4444 XQ
	mov, mkv	4444	mov	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ
	mx Op1A, mx Op-Atom	4444	-	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ	-
ArriRaw	ari, arx	-	-	Yes	-
	mx Op1A	-	-	Yes	-
Avid 1:1	mx Op1A, mx Op-Atom	-	-	Yes	8 bit (1080i, NTSC, PAL), 10-bit RGB (1080p, 1080i)
Blackmagic	braw	-	-	Yes	-
Canon	mx Op1A	-	-	XF-AVC, XF-AVC Intra, XF-HEVC	-
	xml OpAtom	-	-	XF-AVC, XF-AVC Intra, XF-HEVC	-
	mts	-	-	C100 8 bit, C100 Mk2, XA15, XA11, XA35, XA30	-
	mov	-	-	C200 RAW, XF-AVC Intra, XF-MPEG	-
Cintel Raw	cri	-	-	Yes	-
DNxHD	mov, mx Op1A, mx Op-Atom	-	Yes	Yes	720p (100/85/55/45 8-bit, 145/120/75/60 8-bit, 220/185/110/90 10-bit, 220/185/110/90 8-bit), 1080i (100 8-bit, 145/120/115 8-bit, 220/185/175 10-bit, 220/185/175 8-bit, Thin Raster 145/120/115 8-bit), 1080p (100/85/80 8-bit, 145/120/115 8-bit, 220/185/175 10-bit, 220/185/175 8-bit, 36 8-bit, 444)
DNxHR	mov, mx Op1A, mx Op-Atom	Yes (except LB)	Yes	Yes	444 (10-bit, 12-bit), HQX (10-bit, 12-bit), HQ, LB, SQ
FFV1	mov, mkv	Yes	-	Yes	YUV 420 (8/10-bit), YUV 422 (8/10/12-bit), Intra YUV 422 (8/10-bit), RGBA 8/16-bit Intra RGBA 8/16-bit
GIF	gif	Yes	-	Yes	RGB 8-bit, constant duration animated.
GoPro CineForm	avi	-	Yes	Native, YUV 10-bit, RGB 16-bit	YUV 10-bit
	mov	RGB 16-bit	Yes	Native, YUV 10-bit, RGB 16-bit	YUV 10-bit, RGB 16-bit
Grass Valley	avi	-	Yes	HQ, HQX, Lossless	HQ, HQX
	mov	Yes	Yes	HQ, HQX, Lossless	HQ, HQX
H.264	mov	-	-	Yes, GPU accelerated	Yes, GPU accelerated
	mkv	-	-	Yes, GPU accelerated	Yes, GPU accelerated
	mp4	-	-	Yes, GPU accelerated	Yes, GPU accelerated
H.265	mov	Yes	-	Yes, GPU accelerated	Yes, GPU accelerated
	mkv	Yes	-	Yes, GPU accelerated	Yes, GPU accelerated
	mp4	-	-	Yes, GPU accelerated	Yes, GPU accelerated

Video

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
AV1	mov, mp4, mkv	-	-	Yes	-
IMF and DCP	dcp	-	-	Native DCP, Kakadu jpeg2000 formats, HT-J2K	easyDCP ⁽³⁾ 2K and 4K DCI, Kakadu formats Studio for >=4k/HT-J2K
	imf	-	-	Native IMF, IMP, Apple ProRes formats, HT-J2K, Kakadu jpeg2000 formats (including Dolby P3D65)	Apple ProRes formats, Kakadu jpeg2000 formats, Studio for >=4k/Dolby P3D65/HT-J2K. easyDCP ⁽³⁾ RGB and YUV422
JPEG2000 video	mov, mxf Op1A, mxf Op-Atom	-	for IMFs	Yes	Native, Kakadu RGB, YUV422 and YUV444 (8-bit, 10-bit, 12-bit each). Studio for >=4k/HT-J2K
	mj2	-	-	Yes	Kakadu RGB
MPEG	mts	-	-	AVCHD and HDV	-
	m2ts	-	-	AVCHD	-
	mxf Op1A, mxf Op-Atom	-	-	MPEG2, D-10 IMX	-
	mov	-	-	MPEG2, MPEG4, MPEG IMX variants	-
Nikon RAW	nev	-	-	Yes	-
Panasonic	mxf Op1B	-	-	P2 DVC Pro	-
	mov mxf Op1A mxf Op-Atom	-	-	AVC-Intra DVCPRO: NTSC, PAL, DVCPRO50: NTSC, PAL, DVCPRO: 720p (50/60), 1080i (50/60), 1080p (25/30)	Studio only mxf Op1A: AVC-Intra 50M, 100M, 200M: 720p, 1080i, 1080p, 2K, QFHD, 4K mxf Op-Atom: AVC-Intra 50M and 100M: 1080i, 1080p
	shv	-	-	8-bit, Studio only: 10-bit	Studio only
	vrw	-	-	Yes	-
	Phantom CINE	cine	-	-	Yes
RED	r3d	-	-	Yes, GPU accelerated	-
Sony	mov	-	for XAVC	XAVC, XAVC Intra XDCAM 35MB VBR: 720p EX (24/25/30/50/60), 1080i EX (50/60), 1080p EX (24/25/30), 1080p HD (24/25/30) XDCAM HD422 (50MB CBR): 720p (50/60), 1080i (50/60), 1080p (24 /25/30)	-
	mxf Op1A	-	for XAVC	mxf Op-1A, CV X-OCN LT/ST/XT, CB X-OCN, CB X-OCN LT, F5/F55 X-OCN LT/ST, F5/F55 Raw SQ/SQ Lite, F65 Raw HFR/ SQ/SQ Lite, FS700 Raw SQ/SQ Lite XAVC, XAVC Intra, XAVC-H, XDCAM MPEG2, Cine AltaV, Cine AltaV2	XDCAM MPEG2 Studio only: XAVC Intra CBG 50, 100, 300, 480 M/s, XAVC Intra VBR 100, 300, 480 M/s, XAVC Long 10b - 25, 35, 50, 100, 140, 200 M/s, XAVC Long 8b - 10,100,150 M/s, XAVC S Long 8b (420) - 50, 60, 60A, 100, 100A, 150 M/s

Video

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
Sony	mxf Op-Atom	-	for XAVC	mxf Op-Atom, CV X-OCN LT/ST/XT, F5/F55 X-OCN LT/ST, F5/F55 Raw SQ/SQ Lite, F65 Raw HFR/SQ/SQ Lite, FS700 Raw SQ/SQ Lite, XAVC, XAVC Intra, XDCAM MPEG2, Cine AltaV, Cine AltaV2	XDCAM MPEG2
Uncompressed	avi	argb	Yes	Uncompressed (BGRA 8-bit, RGB 10-bit, YUV 422 8/10-bit)	Uncompressed (RGB 10-bit, YUV 422 8/10-bit)
	mov	-	Yes	Uncompressed (ARGB/BGRA 8-bit, RGB 8/10-bit, YUV 422 8/10-bit)	Uncompressed (ARGB/BGRA 8-bit, RGB 8/10-bit, YUV 422 8/10-bit)
	mxf Op1A	-	Yes	Uncompressed (RGB 10-bit, UYVY 8/10-bit), DNxUncompressed RGB and YUV (8/10/12-bit, float/half)	Uncompressed (RGB 10-bit, UYVY 8/10-bit), DNxUncompressed RGB and YUV (8/10/12-bit, float/half)
	mxf Op-Atom	-	Yes	Uncompressed (RGB 10-bit, UYVY 8/10-bit), DNxUncompressed RGB and YUV (8/10/12-bit, float/half)	Uncompressed (RGB 10-bit, UYVY 8/10-bit), DNxUncompressed RGB and YUV (8/10/12-bit, float/half)
VP9	mov, mp4	-	-	Yes	YUV 420 (8/10/12-bit) mov, YUV 422 (8/10/12-bit) mov

Video – Miscellaneous

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
AVI	avi	-	-	DV and PhotoJPEG	-
MKV	mkv	-	-	H.264, H.265 and VP9	-
MXF AVC	mxf Op1A, mxf Op-Atom	-	-	Yes	Studio only: AVC Intra 720p and 1080p (class 50/100/200), 2K, QFHD and 4K (class 100)
QuickTime	mov	-	-	Animation QuickTime, HDV 720p (24/25/30/50/60), 1080i (50/60), 1080p (24/25/30), DV - PAL, MotionJPEG, PhotoJPEG, YUV JPEG 8-bit (420, 422, 444), PNG	PhotoJPEG, YUV JPEG 8-bit (420, 422, 444)

Still and Sequence Formats

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
Action Cam Raw	cdx	-	-	Yes	-
Cineon	cin	-	-	Yes	RGB 10-bit
Canon Raw	crm	-	-	Yes	-
	rmf	-	-	Yes	-
	cr2	-	-	Yes	-
Digital Negative	dng	-	-	Yes	-

Still and Sequence Formats

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
Digital Picture Exchange	dpx	RGBA	-	Yes	Alpha 8-bit, RGB 10/12/16-bit/ 16-half-float, RGBA 8-bit
OpenEXR ⁽⁴⁾	exr	RGBA	-	Yes	RGB/RGBA float/half-float (Uncompressed, ZIP, DWAA, DWAB, PIZ, RLE)
HEIF	heic, heif, hif	-	-	Yes	-
JPEG	jpg	-	-	Yes	YUV 8-bit (420, 422, 444)
JPEG2000	j2c	-	Yes	Yes	Kakadu RGB, YUV422 and YUV444 (8-bit, 10-bit, 12-bit each) Studio for >=4k/HT-J2K
JPEG-HT	jph	-	-	Yes	-
Nikon Electronic	nef	-	-	Yes	-
Portable Network Graphics	png	Yes	-	Yes	RGB 8-bit, 16-bit
Adobe Photoshop	psd	-	-	Yes	-
TARGA	tga	-	-	Yes	-
Tagged Image ⁽⁴⁾	tif, tiff	RGBA	-	Yes	RGB 8-bit, RGB/RGBA 16-bit, XYZ 16-bit (Uncompressed/LZW)

Audio

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
WAV	wav	-	-	Independent Uncompressed PCM 16/24/32-bit	Linear PCM 16/24/32-bit
Audio Interchange	aiff	-	-	Independent Uncompressed PCM 16/24/32-bit	-
Mpeg audio	mp3	-	-	Constant bit rate	Constant bit rate
Advanced audio coding	aac/m4a	-	-	CBR, VBR, average	CBR, VBR, average
Free lossless audio	flac	-	-	Yes	Yes
Embedded audio in video containers	mov, mxf, r3d, mp4, avi, etc.	-	-	All decodable audio formats listed above, with valid header metadata	Linear PCM 16/24/32-bit, AAC (based on container), mp3 (based on container), flac (based on container)
u-law	mov	-	-	Yes	-
IMF audio formats	mxfile Op1A	-	-	Yes	Linear PCM, Dolby Atmos ⁽⁵⁾
OPUS	mov, mp4	-	-	Yes	-
AC-3	ac3	-	-	Yes	-

Windows 10

Video					
Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
Apple ProRes	imf	-	-	422, 422 HQ, 4444, 4444 XQ	-
	mov, mkv	-	-	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ	-
	mx Op1A, mx Op-Atom	-	-	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ	-
ArriRaw	ari, arx	-	-	Yes	-
	mx Op1A	-	-	Yes	-
Avid 1:1	mx Op1A, mx Op-Atom	-	-	Yes	8 bit (1080i, NTSC, PAL), 10-bit RGB (1080p, 1080i)
Blackmagic	braw	-	-	Yes	-
Canon	mx Op1A	-	-	XF-AVC, XF-AVC Intra, XF-HEVC	-
	xml OpAtom	-	-	XF-AVC, XF-AVC Intra, XF-HEVC	-
	mts	-	-	C100 8 bit, C100 Mk2, XA15, XA11, XA35, XA30	-
	mov	-	-	C200 RAW, XF-AVC Intra, XF-MPEG	-
Cintel Raw	cri	-	-	Yes	-
DNxHD	mov, mx Op1A, mx Op-Atom	-	Yes	Yes	720p (100/85/55/45 8-bit, 145/120/75/60 8-bit, 220/185/110/90 10-bit, 220/185/110/90 8-bit), 1080i (100 8-bit, 145/120/115 8-bit, 220/185/175 10-bit, 220/185/175 8-bit, Thin Raster 145/120/115 8-bit), 1080p (100/85/80 8-bit, 145/120/115 8-bit, 220/185/175 10-bit, 220/185/175 8-bit, 36 8-bit, 444)
DNxHR	mov, mx Op1A, mx Op-Atom	Yes (except LB)	Yes	Yes	444 (10-bit, 12-bit), HQX (10-bit, 12-bit), HQ, LB, SQ
FFV1	mov, mkv	Yes	-	Yes	YUV 420 (8/10-bit), YUV 422 (8/10/12-bit), Intra YUV 422 (8/10-bit), RGBA 8/16-bit Intra RGBA 8/16-bit
GIF	gif	Yes	-	Yes	RGB 8-bit, constant duration animated.
GoPro CineForm	avi	-	Yes	Native, YUV 10-bit, RGB 16-bit	YUV 10-bit
	mov	RGB 16-bit	Yes	Native, YUV 10-bit, RGB 16-bit	YUV 10-bit, RGB 16-bit
Grass Valley	avi	-	Yes	HQ, HQX, Lossless	HQ, HQX
	mov	Yes	Yes	HQ, HQX, Lossless	HQ, HQX
H.264	mov	-	-	8-bit OS-supported profiles. More profiles and GPU acceleration in Studio	8-bit OS-supported profiles. More profiles and GPU acceleration in Studio
	mkv	-	-	8-bit OS-supported profiles. More profiles and GPU acceleration in Studio	8-bit OS-supported profiles. More profiles and GPU acceleration in Studio
	mp4	-	-	8-bit OS-supported profiles. More profiles and GPU acceleration in Studio	8-bit OS-supported profiles. More profiles and GPU acceleration in Studio

Video

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
H.265	mov	-	-	8-bit OS-supported profiles. More profiles and GPU acceleration in Studio	8-bit OS-supported profiles. More profiles and GPU acceleration in Studio
	mkv	-	-	8-bit OS-supported profiles. More profiles and GPU acceleration in Studio	8-bit OS-supported profiles. More profiles and GPU acceleration in Studio
	mp4	-	-	8-bit OS-supported profiles. More profiles and GPU acceleration in Studio	8-bit OS-supported profiles. More profiles and GPU acceleration in Studio
AV1	mov, mp4, mkv	-	-	Yes, GPU accelerated	GPU accelerated
IMF and DCP	dcp	-	-	Native DCP, Kakadu jpeg2000 formats, HT-J2K	easyDCP ⁽³⁾ 2K and 4K DCI, Kakadu formats Studio for >=4k/HT-J2K
	imf	-	-	Native IMF, IMP, Apple ProRes formats, HT-J2K, Kakadu jpeg2000 formats (including Dolby P3D65)	Kakadu jpeg2000 formats, Studio for >=4k/Dolby P3D65/HT-J2K. easyDCP ⁽³⁾ RGB and YUV422
JPEG2000 video	mov, mxf Op1A, mxf Op-Atom	-	for IMFs	Yes	Native, Kakadu RGB, YUV422 and YUV444 (8-bit, 10-bit, 12-bit each). Studio for >=4k/HT-J2K
	mj2	-	-	Yes	Kakadu RGB
MPEG	mts	-	-	AVCHD and HDV	-
	m2ts	-	-	AVCHD	-
	mxf Op1A, mxf Op-Atom	-	-	MPEG2, D-10 IMX	-
	mov	-	-	MPEG2, MPEG4, MPEG IMX variants	MPEG4
Nikon RAW	nev	-	-	Yes	-
Panasonic	mxf Op1B	-	-	P2 DVC Pro	-
	mov mxf Op1A mxf Op-Atom	-	-	AVC-Intra DVCPRO: NTSC, PAL, DVCPRO50: NTSC, PAL, DVCPRO: 720p (50/60), 1080i (50/60), 1080p (25/30)	Studio only mxf Op1A: AVC-Intra 50M, 100M, 200M: 720p, 1080i, 1080p, 2K, QFHXD, 4K mxf Op-Atom: AVC-Intra 50M and 100M: 1080i, 1080p
	shv	-	-	8-bit, Studio only: 10-bit	Studio only
	vrw	-	-	Yes	-
Phantom CINE	cine	-	-	Yes	-
RED	r3d	-	-	Yes, GPU accelerated	-
Sony	mov	-	for XAVC	XAVC, XAVC Intra (Studio only) XDCAM 35MB VBR: 720p EX (24/25/30/50/60), 1080i EX (50/60), 1080p EX (24/25/30), 1080p HD (24/25/30) XDCAM HD422 (50MB CBR): 720p (50/60), 1080i (50/60), 1080p (24/25/30)	-

Video

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
Sony	mxf Op1A	-	for XAVC	mxf Op-1A CV X-OCN LT/ST/XT, CB X-OCN, CB X-OCN LT, F5/F55 X-OCN LT/ST, F5/F55 Raw SQ/SQ Lite, F65 Raw HFR/SQ/SQ Lite, FS700 Raw SQ/SQ Lite, XDCAM MPEG2, Cine AltaV, Cine AltaV2 Studio only: XAVC, XAVC Intra, XAVC-H	XDCAM MPEG2 Studio only: XAVC Intra CBG 50, 100, 300, 480 M/s XAVC Intra VBR 100, 300, 480 M/s XAVC Long 10b - 25, 35, 50, 100, 140, 200 M/s XAVC Long 8b - 10, 100, 150 M/s XAVC S Long 8b (420) - 50, 60, 60A, 100, 100A, 150 M/s
	mxf Op-Atom	-	for XAVC	mxf Op-Atom, CV X-OCN LT/ST/XT, F5/F55 X-OCN LT/ST, F5/F55 Raw SQ/SQ Lite, F65 Raw HFR/SQ/SQ Lite, FS700 Raw SQ/SQ Lite XDCAM MPEG2, Cine AltaV, Cine AltaV2 Studio only: XAVC, XAVC Intra	XDCAM MPEG2
Uncompressed	avi	argb	Yes	Uncompressed (BGRA 8-bit, RGB 10-bit, YUV 422 8/10-bit)	Uncompressed (RGB 10-bit, YUV 422 8/10-bit)
	mov	-	Yes	Uncompressed (ARGB/BGRA 8-bit, RGB 8/10-bit, YUV 422 8/10-bit)	Uncompressed (ARGB/BGRA 8-bit, RGB 8/10-bit, YUV 422 8/10-bit)
	mxf Op1A	-	Yes	Uncompressed (RGB 10-bit, UYVY 8/10-bit), DNxUncompressed RGB and YUV (8/10/12-bit, float/half)	Uncompressed (RGB 10-bit, UYVY 8/10-bit), DNxUncompressed RGB and YUV (8/10/12-bit, float/half)
	mxf Op-Atom	-	Yes	Uncompressed (RGB 10-bit, UYVY 8/10-bit), DNxUncompressed RGB and YUV (8/10/12-bit, float/half)	Uncompressed (RGB 10-bit, UYVY 8/10-bit), DNxUncompressed RGB and YUV (8/10/12-bit, float/half)
VP9	mov, mp4	-	-	Yes	-

Video - Miscellaneous

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
AVI	avi	-	-	DV and PhotoJPEG	-
MKV	mkv	-	-	H.264, H.265 and VP9	-
MXF AVC	mxf Op1A, mxf Op-Atom	-	-	Yes	Studio only: AVC Intra 720p and 1080p (class 50/100/200), 2K, QFHD and 4K (class 100)
QuickTime	mov	-	-	Animation QuickTime, HDV 720p (24/25/30/50/60), 1080i (50/60), 1080p (24/25/30), DV - PAL, MotionJPEG, PhotoJPEG, YUV JPEG 8-bit (420,422,444), PNG	PhotoJPEG, YUV JPEG 8-bit (420, 422, 444)

Still and Sequence Formats

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
Action Cam Raw	cdx	-	-	Yes	-
Cineon	cin	-	-	Yes	RGB 10-bit

Still and Sequence Formats

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
Canon Raw	crm	-	-	Yes	-
	rmf	-	-	Yes	-
	cr2	-	-	Yes	-
Digital Negative	dng	-	-	Yes	-
Digital Picture Exchange	dpx	RGBA	-	Yes	Alpha 8-bit, RGB 10/12/16-bit/16-half-float, RGBA 8-bit
OpenEXR ⁽⁴⁾	exr	RGBA	-	Yes	RGB/RGBA float/half-float (Uncompressed, ZIP, DWAA, DWAB, PIZ, RLE)
HEIF	heic, heif, hif	-	-	Studio only	-
JPEG	jpg	-	-	Yes	YUV 8-bit (420, 422, 444)
JPEG2000	j2c	-	Yes	Yes	Kakadu RGB, YUV422 and YUV444 (8-bit, 10-bit, 12-bit each) Studio for >=4k/HT-J2K
JPEG-HT	jph	-	-	Yes	-
Nikon Electronic	nef	-	-	Yes	-
Portable Network Graphics	png	Yes	-	Yes	RGB 8-bit, 16-bit
Adobe Photoshop	psd	-	-	Yes	-
TARGA	tga	-	-	Yes	-
Tagged Image ⁽⁴⁾	tif, tiff	RGBA	-	Yes	RGB 8-bit, RGB/RGBA 16-bit, XYZ 16-bit (Uncompressed/LZW)

Audio

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
WAV	wav	-	-	Independent Uncompressed PCM 16/24/32-bit	Linear PCM 16/24/32-bit
Audio Interchange	aiff	-	-	Independent Uncompressed PCM 16/24/32-bit	-
Mpeg audio	mp3	-	-	Constant bit rate	Constant bit rate
Advanced audio coding	aac/m4a	-	-	CBR, VBR, average	CBR, VBR, average
Free lossless audio	flac	-	-	Yes	Yes
Embedded audio in video containers	mov, mxf, r3d, mp4, avi, etc.	-	-	All decodable audio formats listed above, with valid header metadata	Linear PCM 16/24/32-bit, AAC (based on container), mp3 (based on container), flac (based on container)
u-law	mov	-	-	Yes	-
IMF audio formats	mxf Op1A	-	-	Yes	Linear PCM, Dolby Atmos ⁽⁵⁾
OPUS	mov, mp4	-	-	Yes	-
AC-3	ac3	-	-	Yes	-

Rocky Linux 8.6 (CUDA)

Video					
Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
Apple ProRes	imf	-	-	422, 422 HQ, 4444, 4444 XQ	-
	mov, mkv	4444 ⁽²⁾	mov ⁽²⁾	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ ⁽²⁾
	mxf Op1A, mxf Op-Atom	4444 ⁽²⁾	-	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ	-
ArriRaw	ari, arx	-	-	Yes	-
	mxf Op1A	-	-	Yes	-
Avid 1:1	mxf Op1A, mxf Op-Atom	-	-	Yes	8 bit (1080i, NTSC, PAL), 10-bit RGB (1080p, 1080i)
Blackmagic	braw	-	-	Yes	-
Canon	mxf Op1A	-	-	XF-AVC, XF-AVC Intra, XF-HEVC	-
	xml OpAtom	-	-	XF-AVC, XF-AVC Intra, XF-HEVC	-
	mts	-	-	C100 8 bit, C100 Mk2, XA15, XA11, XA35, XA30	-
	mov	-	-	C200 RAW, XF-AVC Intra, XF-MPEG	-
Cintel Raw	cri	-	-	Yes	-
DNxHD	mov, mxf Op1A, mxf Op-Atom	-	Yes	Yes	720p (100/85/55/45 8-bit, 145/120/75/60 8-bit, 220/185/110/90 10-bit, 220/185/110/90 8-bit), 1080i (100 8-bit, 145/120/115 8-bit, 220/185/175 10-bit, 220/185/175 8-bit, Thin Raster 145/120/115 8-bit), 1080p (100/85/80 8-bit, 145/120/115 8-bit, 220/185/175 10-bit, 220/185/175 8-bit, 36 8-bit, 444)
DNxHR	mov, mxf Op1A, mxf Op-Atom	Yes, except LB	Yes	Yes	444 (10-bit, 12-bit), HQX (10-bit, 12-bit), HQ, LB, SQ
FFV1	mov, mkv	Yes	-	Yes	YUV 420 (8/10-bit), YUV 422 (8/10/12-bit), Intra YUV 422 (8/10-bit), RGBA 8/16-bit Intra RGBA 8/16-bit
GIF	gif	Yes	-	Yes	RGB 8-bit, constant duration animated.
GoPro CineForm	avi	-	Yes	Native, YUV 10-bit, RGB 16-bit	YUV 10-bit
	mov	RGB 16-bit	Yes	Native, YUV 10-bit, RGB 16-bit	YUV 10-bit, RGB 16-bit
Grass Valley	avi	-	Yes	HQ, HQX, Lossless	HQ, HQX
	mov	Yes	Yes	HQ, HQX, Lossless	HQ, HQX
H.264	mov	-	-	Studio Only (GPU accelerated on Nvidia graphics)	Studio and Nvidia graphics (GPU accelerated)
	mkv	-	-	Studio Only (GPU accelerated on Nvidia graphics)	Studio and Nvidia graphics (GPU accelerated)
	mp4	-	-	Studio Only (GPU accelerated on Nvidia graphics)	Studio and Nvidia graphics (GPU accelerated)

Video

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
H.265	mov	-	-	Studio Only (GPU accelerated on Nvidia graphics)	Studio and Nvidia graphics (GPU accelerated)
	mkv	-	-	Studio Only (GPU accelerated on Nvidia graphics)	Studio and Nvidia graphics (GPU accelerated)
	mp4	-	-	Studio Only (GPU accelerated on Nvidia graphics)	Studio and Nvidia graphics (GPU accelerated)
AV1	mov, mp4, mkv	-	-	Yes, GPU accelerated (Nvidia graphics)	Nvidia graphics (GPU accelerated)
IMF and DCP	dcp	-	-	Native DCP, Kakadu jpeg2000 formats, HT-J2K	easyDCP ⁽³⁾ 2K and 4K DCI, Kakadu formats Studio for >=4k/HT-J2K
	imf	-	-	Native IMF, IMP, Apple ProRes formats, HT-J2K, Kakadu jpeg2000 formats (including Dolby P3D65)	Apple ProRes formats ⁽²⁾ , Kakadu jpeg2000 formats, Studio for >=4k/Dolby P3D65/HT-J2K. easyDCP ⁽³⁾ RGB and YUV422
JPEG2000 video	mov, mxf Op1A, mxf Op-Atom	-	for IMFs	Yes	Native, Kakadu RGB, YUV422 and YUV444 (8-bit, 10-bit, 12-bit each). Studio for >=4k/HT-J2K
	mj2	-	-	Yes	Kakadu RGB
MPEG	mts	-	-	AVCHD and HDV	-
	m2ts	-	-	AVCHD	-
	mxf Op1A, mxf Op-Atom	-	-	MPEG2, D-10 IMX	-
	mov	-	-	MPEG2, MPEG4, MPEG IMX variants	MPEG4
Nikon RAW	nev	-	-	-	-
Panasonic	mxf Op1B	-	-	P2 DVC Pro	-
	mov mxf Op1A mxf Op-Atom	-	-	Studio only AVC-Intra DVCPRO: NTSC, PAL, DVCPRO50: NTSC, PAL, DVCPRO: 720p (50/60), 1080i (50/60), 1080p (25/30)	Studio only mxf Op1A: AVC-Intra 50M, 100M, 200M: 720p, 1080i, 1080p, 2K, QFHXD, 4K mxf Op-Atom: AVC-Intra 50M and 100M: 1080i, 1080p
	shv	-	-	8-bit, Studio only: 10-bit	Studio only
	vrw	-	-	Yes	-
Phantom CINE	cine	-	-	Yes	-
RED	r3d	-	-	Yes, GPU accelerated	-
Sony	mov	-	for XAVC	XAVC, XAVC Intra (Studio only) XDCAM 35MB VBR: 720p EX (24/25/30/50/60), 1080i EX (50/60), 1080p EX (24/25/30), 1080p HD (24/25/30) XDCAM HD422 (50MB CBR): 720p (50/60), 1080i (50/60), 1080p (24 /25/30)	-

Video

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
Sony	mxf Op1A	-	for XAVC	mxf Op-1A, CV X-OCN LT/ST/XT, CB X-OCN, CB X-OCN LT, F5/F55 X-OCN LT/ST, F5/F55 Raw SQ/SQ Lite, F65 Raw HFR/SQ/SQ Lite, F5700 Raw SQ/SQ Lite XDCAM MPEG2, Cine AltaV, Cine AltaV2 Studio only : XAVC, XAVC Intra, XAVC-H	XDCAM MPEG2 Studio only: XAVC Intra CBG 50, 100, 300, 480 M/s XAVC Intra VBR 100, 300, 480 M/s XAVC Long 10b - 25, 35, 50, 100, 140, 200 M/s XAVC Long 8b - 10, 100, 150 M/s XAVC S Long 8b (420) - 50, 60, 60A, 100, 100A, 150 M/s
	mxf Op-Atom	-	for XAVC	mxf Op-Atom, CV X-OCN LT/ST/XT, F5/F55 X-OCN LT/ST, F5/F55 Raw SQ/SQ Lite, F65 Raw HFR/SQ/SQ Lite, F5700 Raw SQ/SQ Lite XDCAM MPEG2, Cine AltaV, Cine AltaV2 Studio only : XAVC, XAVC Intra	XDCAM MPEG2
Uncompressed	avi	argb	Yes	Uncompressed (BGRA 8-bit, RGB 10-bit, YUV 422 8/10-bit)	Uncompressed (RGB 10-bit, YUV 422 8/10-bit)
	mov	-	Yes	Uncompressed (ARGB/BGRA 8-bit, RGB 8/10-bit, YUV 422 8/10-bit)	Uncompressed (ARGB/BGRA 8-bit, RGB 8/10-bit, YUV 422 8/10-bit)
	mxf Op1A	-	Yes	Uncompressed (RGB 10-bit, UYVY 8/10-bit), DNxUncompressed RGB and YUV (8/10/12-bit, float/half)	Uncompressed (RGB 10-bit, UYVY 8/10-bit), DNxUncompressed RGB and YUV (8/10/12-bit, float/half)
	mxf Op-Atom	-	Yes	Uncompressed (RGB 10-bit, UYVY 8/10-bit), DNxUncompressed RGB and YUV (8/10/12-bit, float/half)	Uncompressed (RGB 10-bit, UYVY 8/10-bit), DNxUncompressed RGB and YUV (8/10/12-bit, float/half)
VP9	mov, mp4	-	-	Yes	-

Video - Miscellaneous

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
AVI	avi	-	-	DV and PhotoJPEG	-
MKV	mkv	-	-	H.264, H.265 and VP9	-
MXF AVC	mxf Op1A, mxf Op-Atom	-	-	Yes	Studio only: AVC Intra 720p and 1080p (class 50/100/200), 2K, QFHD and 4K (class 100)
QuickTime	mov	-	-	Animation QuickTime, HDV 720p (24/25/30/50/60), 1080i (50/60), 1080p (24/25/30), DV - PAL, MotionJPEG, PhotoJPEG, YUV JPEG 8-bit (420,422,444), PNG	PhotoJPEG, YUV JPEG 8-bit (420, 422, 444)

Still and Sequence Formats

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
Action Cam Raw	cdx	-	-	Yes	-
Cineon	cin	-	-	Yes	RGB 10-bit
Canon Raw	crm	-	-	Yes	-
	rmf	-	-	Yes	-
	cr2	-	-	Yes	-
Digital Negative	dng	-	-	Yes	-
Digital Picture Exchange	dpx	RGBA	-	Yes	Alpha 8-bit, RGB 10/12/16-bit/16-half-float, RGBA 8-bit
OpenEXR ⁽⁴⁾	exr	RGBA	-	Yes	RGB/RGBA float/half-float (Uncompressed, ZIP, DWAA, DWAB, PIZ, RLE)
HEIF	heic, heif, hif	-	-	Studio only	-
JPEG	jpg	-	-	Yes	YUV 8-bit (420, 422, 444)
JPEG2000	j2c	-	Yes	Yes	Kakadu RGB, YUV422 and YUV444 (8-bit, 10-bit, 12-bit each) Studio for >=4k/HT-J2K
JPEG-HT	jph	-	-	Yes	-
Nikon Electronic	nef	-	-	Yes	-
Portable Network Graphics	png	Yes	-	Yes	RGB 8-bit, 16-bit
Adobe Photoshop	psd	-	-	Yes	-
TARGA	tga	-	-	Yes	-
Tagged Image ⁽⁴⁾	tif, tiff	RGBA	-	Yes	RGB 8-bit, RGB/RGBA 16-bit, XYZ 16-bit (Uncompressed/LZW)

Audio

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
WAV	wav	-	-	Independent Uncompressed PCM 16/24/32-bit	Linear PCM 16/24/32-bit
Audio Interchange	aiff	-	-	Independent Uncompressed PCM 16/24/32-bit	-
Mpeg audio	mp3	-	-	Constant bit rate	Constant bit rate
Advanced audio coding	aac/m4a	-	-	-	-
Free lossless audio	flac	-	-	Yes	Yes

Audio

Format	File Ex.	Alpha Exports	Codec Passthrough ⁽¹⁾	Decode	Encode
Embedded audio in video containers	mov, mxf, r3d, mp4, avi, etc.	-	-	All decodable audio formats listed above, with valid header metadata	Linear PCM 16/24/32-bit, mp3 (based on container), flac (based on container)
u-law	mov	-	-	Yes	-
IMF audio	mxf Op1A	-	-	Yes	Linear PCM, Dolby Atmos ⁽⁵⁾
OPUS	mov, mp4	-	-	Yes	-
AC-3	ac3	-	-	Yes	-

NOTES:

Specifications format and codec support subject to change without notice.

For macOS and Windows, DaVinci Resolve will also read most formats natively supported by the operating system.

GPU accelerated encoding and decoding of formats is subject to hardware support. Please refer to the hardware manufacturer's documentation.

Encoding video resolutions >= 4K is only supported with DaVinci Resolve Studio.

Immersive audio formats are only supported with DaVinci Resolve Studio.

- ⁽¹⁾ Indicates if codec renders can be sped up by reusing the original source video essence if there are no effects or color changes to the clip. Relevant only for formats that can be read and rendered by DaVinci Resolve.
- ⁽²⁾ Requires the Advance Panel License Dongle.
- ⁽³⁾ Some EasyDCP formats requires additional licenses from EasyDCP. Formats may be invalid or watermarked without easyDCP license.
- ⁽⁴⁾ DaVinci Resolve encodes single layer images with the indicated formats in each platform.
- ⁽⁵⁾ Rendering Dolby Atmos formats requires a Dolby software license.
- ⁽⁶⁾ For supported codecs on DaVinci Resolve on iPad, please refer to the Studio and iPad Features document online in the [Support page](#).