

# DaVinci Resolve



# Contents

<b>MacOS</b> .....	3
Video .....	3
Video – Miscellaneous .....	5
Still and Sequence Formats .....	5
Audio.....	6
<b>Windows 10</b> .....	7
Video.....	7
Video – Miscellaneous .....	9
Still and Sequence Formats .....	9
Audio.....	10
<b>CentOS 7.3 (CUDA)</b> .....	11
Video.....	11
Video – Miscellaneous .....	13
Still and Sequence Formats .....	13
Audio.....	14

# MacOS

Video					
Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	Decode	Encode
Apple ProRes	imf	-	-	422, 422 HQ, 4444, 4444 XQ	422, 422 HQ, 4444, 4444 XQ
	mov	4444	Yes	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ
	mxf Op1A, mxf Op-Atom	4444	-	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ	-
ArriRaw	ari, arx	-	-	12-bit, 16bit	-
	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
GoPro CineForm	avi	RGB 16-bit	Yes	Native, YUV 10-bit, RGB 16-bit	YUV 10-bit
	mov	-	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	HQ, HQX, Lossless	HQ, HQX
H.264	mov	-	-	Yes, GPU accelerated	Yes, GPU accelerated
	mp4	-	-	Yes, GPU accelerated	Yes, GPU accelerated
H.265	mov	-	-	Yes, GPU accelerated	Yes, GPU accelerated
	mp4	-	-	Yes, GPU accelerated	Yes, GPU accelerated
AV1	mov, mp4	-	-	Yes	-

## Video

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	Decode	Encode
IMF and DCP	dcp	-	-	Native DCP, Kakadu jpeg2000 formats	easyDCP <sup>(3)</sup> 2K and 4K DCI, Kakadu formats. Studio for >=4k
	imf	-	-	Native IMF, IMP, Apple ProRes formats, Kakadu jpeg2000 formats (including Dolby P3D65)	Apple ProRes formats, Kakadu jpeg2000 formats. Studio for >=4k/Dolby P3D65. easyDCP <sup>(3)</sup> 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
	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	-	-	AVC-Intra 50M and 100 M: 720p (24/25/30/50/60), 1080i (50/60), 1080p (24/25/30/50/60), DVCPRO: NTSC, PAL, DVCPRO50: NTSC, PAL, DVCPRO: 720p (50/60), 1080i (50/60), 1080p (25/30)	-
	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): 420p (50/60), 1080i (50/60), 1080p (24 /25/30)	-
	mxf Op1A	-	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, MPEG4 225M - 422, 422 - 720p, MPEG4 450M - 422, 444. 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, XAVC, XAVC Intra XDCAM MPEG2, Cine AltaV, ine AltaV2	XDCAM MPEG2

## Video

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	Decode	Encode
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)
	mxp Op1A	-	Yes	Uncompressed (RGB 10-bit, UYVY 8/10-bit)	-
	mxp Op-Atom	-	Yes	Uncompressed (RGB 10-bit, UYVY 8/10-bit)	-
VP9	mov	-	-	Yes	YUV 420 and 422 (8-bit, 10-bit, 12-bit each)

## Video - Miscellaneous

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	Decode	Encode
AVI	avi	-	-	DV and PhotoJPEG	-
MKV	mkv	-	-	H.264, H.265 and VP9	-
MXF AVC	mxp Op1A, mxp 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	PhotoJPEG

## Still and Sequence Formats

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	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 <sup>(4)</sup>	exr	RGBA	-	Yes	RGB/RGBA float/half-float (Uncompressed, ZIP, DWAA, DWAB, PIZ, RLE)
HEIF	heic	-	-	Yes	-
JPEG2000	j2c	-	Yes	Yes	Kakadu RGB, YUV422 and YUV444 (8-bit, 10-bit, 12-bit each) Studio for >=4k/HT-J2K

## Still and Sequence Formats

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	Decode	Encode
JPEG	jpg	-	-	Yes	-
JPEG-HT	jph	-	-	Yes	-
Nikon Electronic	nef	-	-	Yes	-
Portable Network Graphics	png	-	-	Yes	-
Adobe Photoshop	psd	-	-	Yes	-
TARGA	tga	-	-	Yes	-
Tagged Image <sup>(4)</sup>	tif, tiff	RGBA	-	Yes	RGB 8-bit, RGB/RGBA 16-bit, XYZ 16-bit (Uncompressed/LZW)

## Audio

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	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	-
Advanced audio coding	aac/m4a	-	-	CBR, VBR, average	CBR, VBR, average
Free lossless audio	flac	-	-	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)
u-law	mov	-	-	Yes	-
IMF audio formats	mxf op1a	-	-	Yes	Linear PCM, Dolby Atmos <sup>(5)</sup>
OPUS	mov, mp4	-	-	Yes	-
AC-3	ac3	-	-	Yes	-

# Windows 10

Video					
Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	Decode	Encode
Apple ProRes	imf	-	-	422, 422 HQ, 4444, 4444 XQ	-
	mov	4444	Yes	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ	-
	mxf Op1A, mxf Op-Atom	4444	-	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ	-
ArriRaw	ari, arx	-	-	12-bit, 16bit	-
	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
GoPro CineForm	avi	RGB 16-bit	Yes	Native, YUV 10-bit, RGB 16-bit	YUV 10-bit
	mov	-	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	HQ, HQX, Lossless	HQ, HQX
H.264	mov	-	-	Yes, GPU accelerated in Studio	Yes, GPU accelerated in Studio
	mp4	-	-	Yes, GPU accelerated in Studio	Yes, GPU accelerated in Studio
H.265	mov	-	-	Yes, GPU accelerated in Studio	Yes, GPU Accelerated. Additional profiles in Studio
	mp4	-	-	Yes, GPU accelerated in Studio	Studio only. GPU Accelerated.
AV1	mov, mp4	-	-	Yes, GPU accelerated	Yes, GPU accelerated on Intel graphics

## Video

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	Decode	Encode
IMF and DCP	dcp	-	-	Native DCP, Kakadu jpeg2000 formats	easyDCP <sup>(3)</sup> 2K and 4K DCI, Kakadu 2K DCI. Kakadu 4K DCI with Studio only
	imf	-	-	Native IMF, IMP, Apple ProRes formats, Kakadu jpeg2000 formats (including Dolby P3D65)	Kakadu jpeg2000 formats. Studio for >=4k/Dolby P3D65. easyDCP <sup>(3)</sup> 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
	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	-	-	AVC-Intra 50M and 100 M; 720p (24/25/30/50/60), 1080i (50/60), 1080p (24/25/30/50/60), DVCPRO: NTSC, PAL, DVCPRO50: NTSC, PAL, DVCPRO: 720p (50/60), 1080i (50/60), 1080p (25/30)	-
	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-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, MPEG4 225M - 422, 422 - 720p, MPEG4 450M - 422, 444 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, XAVC, XAVC Intra, XDCAM MPEG2, Cine AltaV, Cine AltaV2	XDCAM MPEG2



## Video

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	Decode	Encode
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)	-
	mxf Op-Atom	-	Yes	Uncompressed (RGB 10-bit, UYVY 8/10-bit)	-
VP9	mov	-	-	Yes	-

## Video - Miscellaneous

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	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	PhotoJPEG

## Still and Sequence Formats

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	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 <sup>(4)</sup>	exr	RGBA	-	Yes	RGB/RGBA float/half-float (Uncompressed, ZIP, DWAA, DWAB, PIZ, RLE)
HEIF	heic	-	-	Studio only	-
JPEG2000	j2c	-	Yes	Yes	Kakadu RGB, YUV422 and YUV444 (8-bit, 10-bit, 12-bit each). Studio for >=4k

## Still and Sequence Formats

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	Decode	Encode
JPEG	jpg	-	Yes	Yes	-
JPEG-HT	jph	-	-	Yes	-
Nikon Electronic	nef	-	-	Yes	-
Portable Network Graphics	png	-	-	Yes	-
Adobe Photoshop	psd	-	-	Yes	-
TARGA	tga	-	-	Yes	-
Tagged Image <sup>(4)</sup>	tif, tiff	RGBA	-	Yes	RGB 8-bit, RGB/RGBA 16-bit, XYZ 16-bit (Uncompressed/LZW)

## Audio

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	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	-
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)
u-law	mov	-	-	Yes	-
IMF audio formats	mxf op1a	-	-	Yes	Linear PCM, Dolby Atmos <sup>(5)</sup>
OPUS	mov, mp4	-	-	Yes	-
AC-3	ac3	-	-	Yes	-

# CentOS 7.3 (CUDA)

Video					
Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	Decode	Encode
Apple ProRes	imf	-	-	422, 422 HQ, 4444, 4444 XQ	-
	mov	4444	Yes	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ (2)
	mx Op1A, mx Op-Atom	4444	-	422, 422 HQ, 422 LT, 422 Proxy, 4444, 4444 XQ	-
ArriRaw	ari, arx	-	-	12-bit, 16bit	-
	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	Yes	444 (10-bit, 12-bit), HQX (10-bit, 12-bit), HQ, LB, SQ
GoPro CineForm	avi	RGB 16-bit	Yes	Native, YUV 10-bit, RGB 16-bit	YUV 10-bit
	mov	-	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	HQ, HQX, Lossless	HQ, HQX
H.264	mov	-	-	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)
H.265	mov	-	-	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 <sup>(1)</sup>	Decode	Encode
IMF and DCP	dcp	-	-	Native DCP, Kakadu jpeg2000 formats	easyDCP <sup>(3)</sup> 2K and 4K DCI, Kakadu 2K DCI. Kakadu 4K DCI with Studio only
	imf	-	-	Native IMF, IMP, Apple ProRes formats, Kakadu jpeg2000 formats (including Dolby P3D65)	Kakadu jpeg2000 formats. Studio for >=4k/Dolby P3D65). easyDCP <sup>(3)</sup> 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	-	-	AVC-Intra 50M and 100 M: 720p (24/25/30/50/60), 1080i (50/60), 1080p (24/25/30/50/60), DVCPRO: NTSC, PAL, DVCPRO50: NTSC, PAL, DVCPRO: 720p (50/60), 1080i (50/60), 1080p (25/30)	-
	SHV	-	-	8-bit, Studio only: 10-bit	Studio only
	vrw	-	-	Yes	-
Phantom CINE	cine	-	-	Yes	-
RED	r3d	-	-	Yes, GPU accelerated	-
Sony	mov	-	-	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	-	-	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, MPEG4 225M - 422, 422- 720p, MPEG4 450M - 422, 444 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	-	-	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

## Video

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	Decode	Encode
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)	-
	mxf Op-Atom	-	Yes	Uncompressed (RGB 10-bit, UYVY 8/10-bit)	-
VP9	mov	-	-	Yes	-

## Video - Miscellaneous

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	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	PhotoJPEG

## Still and Sequence Formats

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	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 <sup>(4)</sup>	exr	RGBA	-	Yes	RGB/RGBA float/half-float (Uncompressed, ZIP, DWAA, DWAB, PIZ, RLE)
HEIF	heic	-	-	Studio only	-
JPEG2000	j2c	-	Yes	Yes	Kakadu RGB, YUV422 and YUV444 (8-bit, 10-bit, 12-bit each) Studio for >=4k/HT-J2K
JPEG	jpg	-	-	Yes	-

## Still and Sequence Formats

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	Decode	Encode
JPEG-HT	jph	-	-	Yes	-
Nikon Electronic	nef	-	-	Yes	-
Portable Network Graphics	png	-	-	Yes	-
Adobe Photoshop	psd	-	-	Yes	-
TARGA	tga	-	-	Yes	-
Tagged Image <sup>(4)</sup>	tif, tiff	RGBA	-	Yes	RGB 8-bit, RGB/RGBA 16-bit, XYZ 16-bit (Uncompressed/LZW)

## Audio

Format	File Ex.	Alpha Exports	Codec Passthrough <sup>(1)</sup>	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
Advanced audio coding	aac/m4a	-	-	-	-
Free lossless audio	flac	-	-	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
u-law	mov	-	-	Yes	-
IMF audio	mxfile.op1a	-	-	Yes	Linear PCM, Dolby Atmos <sup>(5)</sup>
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.

Hardware accelerated encoding and decoding of H.264 and H.265, as well as encoding of all formats > = 4K are available only on DaVinci Resolve Studio, and are subject to hardware acceleration limitations.

Immersive audio formats are only supported with DaVinci Resolve Studio.

<sup>(1)</sup> 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.

<sup>(2)</sup> Requires the Advance Panel License Dongle.

<sup>(3)</sup> Some EasyDCP formats requires additional licenses from EasyDCP. Formats may be invalid or watermarked without easyDCP license.

<sup>(4)</sup> DaVinci Resolve encodes single layer images with the indicated formats in each platform.

<sup>(5)</sup> Rendering Dolby Atmos formats requires a Dolby software license.