

Vantage Encode Format Support

The table presented here defines Vantage encoder support for various codec formats and associated container formats. In the table an "x" defines that a container for a specified codec is supported. Color groups associate additional feature support within technologies (i.e., whether HDR or 4K is supported for a given codec and container). The table also breaks out Vantage Multiscreen (our ABR encoding) versus Vantage IPTV/VOD encoding. The first half of this table is ordered by Codec, while the last half of the pages present the information ordered by container.

Organized By Video Codec

Video Codec	Container	Flip64	HDR	4K	Multiscreen	HDR	4K	IPTV	HDR	4K
AVC Intra										
	AS-03 MXF	x								
	AS-11 DPP HD MXF	x								
	AS-11 X6 MXF	x								
	ARD_ZDF MXF	x								
	OP1a MXF	x								
	TIFO	x								
AVC Ultra Intra										
	AVC Ultra MXF	x	x	x						
AVC Ultra Long GOP										
	AVC Ultra MXF	x	x	x						
DNxHD										
	OP1a MXF	x								
	QuickTime MOV	x								
	TIFO	x								
DNxHR										
	OP1a MXF	x		x						
	QuickTime MOV	x		x						
DV										
	OP1a MXF	x								
	QuickTime MOV	x								
	Omneon QT Reference	x								
	TIFO	x								
DVCPro										
	QuickTime MOV	x								
DVCPro HD										
	OP1a MXF	x								
	QuickTime MOV	x								
	Omneon QT Reference	x								
FFV1										
	MKV	x		x						
	MP4	x		x						
	QuickTime MOV	x		x						

Organized By Video Codec

Video Codec	Container	Flip64	HDR	4K	Multiscreen	HDR	4K	IPTV	HDR	4K
French Shim										
	AS-10 MXF	x								
Grass Valley (Canopus) HQ										
	OP1a MXF	x								
	QuickTime MOV	x								
Grass Valley (Canopus) HQX										
	OP1a MXF	x		x						
	QuickTime MOV	x		x						
h.264										
	AS-11 X1 MXF	x								
	AS-11 X5 MXF	x								
	AS-11 X9 MXF	x								
	Elementary Stream	x	x	x						
	MP4	x	x	x	x	x	x	x	x	x
	Transport Stream							x	x	x
	OP1a MXF	x	x	x						
	QuickTime MOV	x	x	x						
	TIFO	x	x	x	x	x	x	x	x	x
	Apple HLS				x	x	x			
	MPEG DASH				x	x	x			
	CMAF				x	x	x			
	MSS				x		x			
	ATS				x	x	x			
h.265										
	Elementary Stream	x	x	x						
	MP4	x	x	x	x	x	x	x	x	x
	Transport Stream							x	x	x
	TIFO	x	x	x	x	x	x	x	x	x
	Apple HLS				x	x	x			
	MPEG DASH				x	x	x			
	CMAF				x	x	x			
	ATS				x	x	x			
h.265 Dolby Vision Profile 5										
	MP4	x	x	x						
IMX										
	XDCAM MXF	x								
	QuickTime MOV	x								
	Omneon QT Reference	x								
	TIFO	x								
JPEG										
	Keyframe	x		x				x		x

Organized By Video Codec

Video Codec	Container	Flip64	HDR	4K	Multiscreen	HDR	4K	IPTV	HDR	4K
JPEG-2000 (CPU)										
	AS-02 MXF	x	x	x						
	OP1a MXF	x	x	x						
	DCP Package	x	x	x						
	IMF Package	x	x	x						
JPEG-2000 (GPU Accelerated)										
	AS-02 MXF	x	x	x						
	OP1a MXF	x	x	x						
	DCP Package	x	x	x						
	IMF Package	x	x	x						
JPG-2000 Interleaved Dolby Vision										
	IMF Package	x	x	x						
MPEG-2										
	Elementary Stream	x								
	MPEG-2 Transport Stream						x			
	MPEG-2 Program Stream	x					x			
	AS-03 MXF	x								
	OP1a MXF	x								
	TIFO	x					x			
PNG								x		x
	Keyframe	x		x				x		x
ProRes										
	OP1a MXF	x	x	x						
	QuickTime MOV	x	x	x						
	TIFO	x	x	x						
QT Animation										
	QuickTime MOV	x								
QT Uncompressed										
	QuickTime MOV	x								
VP9										
	MPEG DASH				x		x			
x264 (RDD25 Restricted)										
	RDD25 Proxy MXF	x								
XAVC Intra										
	XAVC MXF	x	x	x						
XAVC Long GOP										
	XAVC MXF	x	x	x						
XDCAM										
	ARD_ZDF MXF	x								

Organized By Video Codec

Organized By Audio Codec

Audio Codec	Container	Flip64	HDR	4K	Multiscreen	HDR	4K	IPTV	HDR	4K
AAC										
	AS-11 X9 MXF	x								
	MP4	x			x			x		
	Transport Stream							x		
	MPEG-2 Transport Stream							x		
	MPEG-2 Program Stream							x		
	OP1a MXF	x								
	RDD25 Proxy MXF	x								
	Quick Time	x								
	TIFO				x			x		
	Apple HLS				x					
	MPEG DASH				x					
	CMAF				x					
	MSS				x					
	ATS				x					
AC-3										
	Elementary Stream	x								
	MP4	x			x			x		
	Transport Stream							x		
	MPEG-2 Transport Stream							x		
	MPEG-2 Program Stream							x		
	AS-02 MXF	x								
	OP1a MXF	x								
	Quick Time	x								
	TIFO				x			x		
	Apple HLS				x					
	MPEG DASH				x					
	CMAF				x					
	MSS				x					
	ATS				x					
Dolby ATMOS										
	MP4	x								
	Elementary Stream	x								
Dolby E										
	WAV	x								
EAC-3										
	Elementary Stream	x								
	MP4	x								
	Transport Stream							x		
	MPEG-2 Transport Stream							x		

Organized By Audio Codec

Organized By Audio Codec

Vantage Format Encode

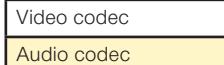
Organized By Container

Standalone Formats

Container	Codec	Flip64	HDR	4K	Multiscreen	HDR	4K	IPTV	HDR	4K
B-WAV										
	PCM	x								
	MPEG-1 Layer 2 Audio	x								
WAV										
	PCM	x								
	Dolby E	x								
Elementary Stream										
	MPEG-2	x								
	h.264	x	x	x						
	h.265	x	x	x						
	PCM	x								
	Dolby Atmos	x								
	AC-3	x								
	EAC-3	x								
MKV										
	FFV1	x		x						
	PCM	x								
MP4										
	FFV1	x		x						
	h.264	x	x	x	x	x	x	x	x	x
	h.265	x	x	x	x	x	x	x	x	x
	h.265 Dolby Vision Profile 5	x	x	x						
	XDCAM EX	x								
	PCM	x								
	AAC	x								
	AC-3	x								
	EAC-3	x								
	Dolby Atmos	x								
	MPEG-1 Layer 2 Audio				x			x		
Transport Stream										
	h.264							x	x	x
	h.265							x	x	x
	PCM							x		
	AAC							x		
	AC-3							x		
	EAC-3	x								
	MPEG-1 Layer 2 Audio							x		

NOTE about Container Table Rows:

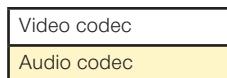
Video codecs have a white background
Audio codecs have a tan background



Organized By Container

Container	Codec	Flip64	HDR	4K	Multiscreen	HDR	4K	IPTV	HDR	4K
MPEG-2 Transport Stream										
	MPEG-2							x		
	PCM							x		
	AAC							x		
	AC-3							x		
	EAC-3							x		
	MPEG-1 Layer 2 Audio							x		
MPEG-2 Program Stream										
	MPEG-2	x						x		
	PCM							x		
	AAC							x		
	AC-3							x		
	EAC-3							x		
	MPEG-1 Layer 2 Audio	x						x		
Keyframe										
	JPG	x		x				x		x
	PNG	x		x				x		x
	JPEG	x		x				x		x
ARD_ZDF MXF										
	AVC Intra 100	x								
	XDCAM	x								
	PCM	x								
AS-02 MXF										
	JPEG-2000 (CPU)	x	x	x						
	JPEG-2000 (GPU Accelerated)	x	x	x						
	PCM	x								
	AC-3	x								
	EAC-3	x								
AS-03 MXF										
	AVC Intra	x								
	MPEG-2	x								
	PCM	x								
AS-10 MXF										
	French Shim	x								
	PCM	x								
AS-11 DPP HD MXF										
	AVC Intra	x								
	PCM	x								

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Organized By Container

Container	Codec	Flip64	HDR	4K	Multiscreen	HDR	4K	IPTV	HDR	4K
AS-11 X1 MXF										
	h.264	x								
	PCM	x								
AS-11 X5 MXF										
	h.264	x								
	PCM	x								
AS-11 X6 MXF										
	AVC Intra	x								
	PCM	x								
AS-11 X9 MXF										
	h.264	x								
	AAC	x								
	PCM	x								
OP1a MXF										
	AVC Intra	x								
	DNxHD	x								
	DNxHR	x		x						
	DV	x								
	DVCPro	x								
	DVCPro HD	x								
	Grass Valley (Canopus) HQ	x								
	Grass Valley (Canopus) HQX	x								
	JPEG-2000 (CPU)	x	x	x						
	JPEG-2000 (GPU Accelerated)	x	x	x						
	MPEG-2	x								
	ProRes	x	x	x						
	h.264	x	x	x						
	PCM	x								
	AAC	x								
	AC-3	x								
	EAC-3	x								
RDD25 Proxy MXF										
	x264 (RDD25 Restricted)	x								
	AAC (RDD25 Restricted)	x								
AVC Ultra MXF										
	AVC Ultra Intra	x	x	x						
	AVC Ultra Long GOP	x	x	x						
	PCM	x								
XDCAM MXF										

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Video codec
Audio codec

Organized By Container

Container	Codec	Flip64	HDR	4K	Multiscreen	HDR	4K	IPTV	HDR	4K
	IMX	x								
	XDCAM HD	x								
	XDCAM EX	x								
	PCM	x								
XAVC MXF										
	XAVC Intra	x	x	x						
	XAVC Long GOP	x	x	x						
	PCM	x								
QuickTime MOV										
	DNxHD	x								
	DNxHR	x		x						
	DV	x								
	DVCPro	x								
	DVCPro HD	x								
	Grass Valley (Canopus) HQ	x								
	Grass Valley (Canopus) HQX	x		x						
	IMX	x								
	ProRes	x	x	x						
	h.264	x	x	x						
	XDCAM HD	x								
	XDCAM HD 4:2:2	x								
	XDCAM EX	x								
	FFV1	x		x						
	QT Animation	x								
	QT Uncompressed	x								
	PCM	x								
	AAC	x								
	AC-3	x								
	EAC-3	x								
Omneon QT Reference										
	DV	x								
	DVCPro	x								
	DVCPro HD	x								
	IMX	x								
	XDCAM HD	x								
	XDCAM HD 4:2:2	x								
	PCM	x								
TIFO										
	AVC Intra	x								
	DNxHD	x								

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Video codec
Audio codec

Organized By Container

Container	Codec	Flip64	HDR	4K	Multiscreen	HDR	4K	IPTV	HDR	HDR	4K
TIFO (Continued)	DV	x									
	IMX	x									
	ProRes	x	x	x							
	MPEG-2	x						x			
	XDCAM HD	x									
	XDCAM EX	x									
	h.264	x	x	x	x	x	x	x	x	x	x
	h.265	x	x	x	x	x	x	x	x	x	x
	PCM	x			x				x		
	AAC				x				x		
	AC-3				x				x		
	EAC-3				x				x		
	MPEG-1 Layer 2 Audio	x			x			x			

Cinema Packages

Container	Codec	Flip64	HDR	4K	Multiscreen	HDR	4K	IPTV	HDR	HDR	4K
DCP Package											
	JPEG-2000 (CPU)	x	x	x							
	JPEG-2000 (GPU Accelerated)	x	x	x							
	PCM	x									
IMF Package											
	JPEG-2000 (CPU)	x	x	x							
	JPEG-2000 (GPU Accelerated)	x	x	x							
	JPEG-2000 Interleaved Dolby Vision	x	x	x							
	PCM	x									

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Video codec
Audio codec

Streaming Packages

Container	Codec	Flip64	HDR	4K	Multiscreen	HDR	4K	IPTV	HDR	4K
Apple HLS										
	h.264				x	x	x			
	h.265				x	x	x			
	AAC				x					
	AC-3				x					
	EAC-3				x					
	MPEG-1 Layer 2 Audio				x					
MPEG DASH										
	h.264				x	x	x			
	h.265				x	x	x			
	VP9				x		x			
	AAC				x					
	AC-3				x					
	EAC-3				x					
	MPEG-1 Layer 2 Audio				x					
	Opus				x					
CMAF										
	h.264				x	x	x			
	h.265				x	x	x			
	AAC				x					
	AC-3				x					
	EAC-3				x					
	MPEG-1 Layer 2 Audio				x					
MSS										
	h.264				x	x	x			
	AAC				x					
	AC-3				x					
	EAC-3				x					
	MPEG-1 Layer 2 Audio				x					
ATS										
	h.264				x	x	x			
	h.265				x	x	x			
	AAC				x					
	AC-3				x					
	EAC-3				x					
	MPEG-1 Layer 2 Audio				x					

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