



Avid Editing Systems—Supported Formats

Media compatibility guide for Media Composer[®] version 5.5,
Symphony[™] version 5.5, and NewsCutter[®] version 9.5 systems

2.15.2011

Avid Editing Systems—Supported Formats

Media compatibility guide for Media Composer® version 5.5, Symphony™ version 5.5, and NewsCutter® version 9.5 systems

Key Definitions

Device Format:

Raw form of the digital video recorded by the camera

Format Tradename:

Alternate Industry trademarked names/compression for given device format

Wrapper:

Wraps the format into an audio/video container such as AVI, MXF or QuickTime

Codec:

Compressor/Decompressor International Standard Name

Codec Tradename:

Alternate Industry trademarked names for given codec

Application-Generated Format:

File formats generated by other editing applications

Proxy support

(For devices that capture simultaneously to both proxy and high resolutions.) Indicates that the editor can edit with either resolution, and relink between the two resolutions.

Write-back to Original Device:

Output of the sequence back to its native device format. Generates files in the device's native folder structure.

Export to File:

Output of the sequence back to the original file-based format. Generates a single file (or numbered file sequences).

Quick Reference Guide

Device Formats

Canon AVCHD	9
Ikegami GFCAM	3
JVC AVCHD	9
OHCI/Firewire Tape Based Cameras and Decks	3
Panasonic AVCCAM	9
Panasonic P2	4
RED	4
Sony AVCHD	9
Sony HDCAM SR	8
Sony NXCAM	9
Sony XDCAM: DVCAM	6
Sony XDCAM: MPEG-4	7
Sony XDCAM: MPEG-IMX	7
Sony XDCAM: XDCAM HD / XDCAM HD240	6
XDCAM EX	5

Application-Generated Formats

QUICKTIME	10
AVI	10
MXF	11
MPEG	10
JPG	10
PNG	10
TIFF	10
PSD	10

X	Marked areas indicate that this format or operation is supported.
	Blank areas indicate that this format or operation is not supported.
	Grey areas indicate that this format or operation is not applicable.

Device Format	Format Tradename	Wrapper	Codec	Codec Tradename	Standard	Bitrate	Raster	Frame Rate	Color Sampling	Component Bit Depth	Audio Channels	Audio Bit Depth	AirSpeed® Multi-Stream Ingest	Capture	Import	Fast Import	Link Via AMA	Real-Time Edit	Proxy Support	Render	Write-Back to Original Device	Export to File					
OHCI/Firewire Tape Based Cameras and Decks	DVC PRO / DVCAM		DV 25 411		SD	25 Mbps				8	2			X				X		X	X						
	DVC PRO 50		DV 50		SD	50 Mbps	NTSC	29.97	4:2:2	8	4			X				X		X	X						
							PAL	25	4:2:2	8				X				X		X	X						
	DVC PROHD		DV 100		HD	100 Mbps	720p	59.94	4:2:2	8					X				X		X	X					
								50	4:2:2	8				X				X		X	X						
								1080i	59.94i	4:2:2	8				X				X		X	X					
								50i	4:2:2	8				X				X		X	X						
	HDV 720p HDV 1080i		MPEG-2 Long-GOP	HDV	HD	25 Mbps	720p		4:2:0	8	4	16	X	X				X		X	X						
							1080i		4:2:0	8	4	16	X	X				X		X	X						
	Ikegami GFCAM	MPEG	MXF OP-Atom	MPEG-2 Long-GOP	XDCAM HD 50	HD	50 Mbps	1080i	59.94i	4:2:2	8	4			X	X	X		X	X							
								50i	4:2:2	8	4			X	X	X		X	X								
								1080p	29.97p	4:2:2	8	4				X	X		X	X							
								25p	4:2:2	8	4					X	X		X	X							
								720p	59p	4:2:2	8	4			X	X	X		X	X							
								50p	4:2:2	8	4				X	X	X		X	X							
								25p	4:2:2	8	4					X	X		X	X							
								23.98p (pulldown)	4:2:2	8	4					X	X		X	X							
MPEG IMX		MXF OP-Atom	MPEG 30		SD	30 Mbps	NTSC	30i	4:2:2	8	4			X	X	X	X	X	X								
							PAL	25i	4:2:2	8	4		X	X	X	X	X	X									
								NTSC	30i	4:2:2	8	4			X	X	X	X	X								
								PAL	25i	4:2:2	8	4			X	X	X	X	X								
								MPEG 50		SD	50 Mbps	NTSC	30i	4:2:2	8	4			X	X	X	X	X	X			
								PAL	25i	4:2:2	8	4			X	X	X	X	X								
DVCAM		MXF OP-Atom	DV 25 411 DV 25 420		SD	25 Mbps	NTSC	30i	4:1:1	8	4			X	X	X	X	X	X								
								PAL	25i	4:1:1	8	4		X	X	X	X	X	X								
										4:2:0	8	4		X	X	X	X	X	X								

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RED		R3D	REDCODE		2K		2:1				4						X													
							16:9				4						X													
							ANA				4						X													
							3K	2:1				4											X							
								16:9				4											X							
								ANA				4											X							
							4K	2:1				4											X							
								16:9				4											X							
								ANA				4											X							
							4.5K				4											X								
							Panasonic P2	DVCPRO 25	MXF OP-Atom	DV 25	DV 25 411 DV 25 420	SD	25 Mbps	NTSC	30i	4:1:1	8	2	16	X	X	X		X	X		X	X		
														PAL	25i	4:1:1	8	2	16	X	X	X		X	X		X	X		X
DVCPRO 50	MXF OP-Atom	DV 50		SD	50 Mbps	NTSC		30i	4:2:2	8	4	16	X	X	X		X	X		X	X		X	X						
						PAL		25i	4:2:2	8	4	16	X	X	X		X	X		X	X		X	X		X	X			
DVCPRO HD	MXF OP-Atom	DV 100		HD	100 Mbps	720p			4:2:2	8	4	16		X	X		X	X		X	X		X	X						
						1080i			4:2:2	8	4	16		X	X		X	X		X	X		X	X		X	X			
AVC-Intra 50	MXF OP-Atom	AVC-Intra 50 (H.264)		HD	50 Mbps	1080i		59.94i	4:2:0	8				X	X	X		X	X		X									
								50i	4:2:0	8			X	X	X		X	X		X										
						1080p		23.976p	4:2:0	8				X	X		X	X		X	X		X							
								25p	4:2:0	8				X	X		X	X		X	X		X							
								29.97p	4:2:0	8				X	X		X	X		X	X		X							
						720p		23.976p	4:2:0	8							X			X	X		X	X		X				
								25p	4:2:0	8				X			X			X	X		X	X		X				
								59.94p	4:2:0	8				X	X	X				X	X		X	X		X				
								50p	4:2:0	8				X	X	X				X	X		X	X		X				
																				X	X		X	X		X				
AVC-Intra 100	MXF OP-Atom	AVC-Intra 100 (H.264)		HD	100 Mbps	1080i		59.94i	4:2:2	10				X	X	X		X	X		X									
								50i	4:2:2	10			X	X	X		X	X		X										
						1080p		23.976p	4:2:2	10				X	X		X	X		X	X		X							
								25p	4:2:0	10				X	X	X				X	X		X	X		X				
								29.97p	4:2:0	10				X	X	X				X	X		X	X		X				
						720p		23.976p	4:2:2	10							X			X	X		X	X		X				
								25p	4:2:2	10				X			X			X	X		X	X		X				
								59.94p	4:2:2	10				X	X	X				X	X		X	X		X				
								50p	4:2:2	10				X	X	X				X	X		X	X		X				
																				X	X		X	X		X				

Device Format	Format Tradename	Wrapper	Codec	Codec Tradename	Standard	Bitrate	Raster	Frame Rate	Color Sampling	Component Bit Depth	Audio Channels	Audio Bit Depth	AirSpeed® Multi-Stream Ingest	Capture	Import	Fast Import	Link Via AMA	Real-Time Edit	Proxy Support	Render	Write-Back to Original Device	Export to File						
XDCAM EX		MP4	MPEG-2 Long-GOP	XDCAM EX 25	HD	25 Mbps	1080i	59.94i	4:2:0	8	2	16					X	X		X								
										8	4	16					X	X		X								
								50i	4:2:0	8	2	16					X	X		X								
										8	4	16					X	X		X								
								1080p	23.976p	4:2:0	8	2	16							X	X		X					
										8	4	16					X	X		X								
							XDCAM EX 35	HD	35 Mbps VBR	1080i	59.94i	4:2:0	8	2	16	X							X	X		X		
													8	4	16	X						X	X		X			
											50i	4:2:0	8	2	16	X						X	X		X			
													8	4	16	X						X	X		X			
											1080p	23.976p	4:2:0	8	2	16							X	X		X		
													8	4	16					X	X		X					
				720p	25p	4:2:0				8	2	16								X	X		X					
										8	4	16								X	X		X					
					29.97p	4:2:0				8	2	16								X	X		X					
										8	4	16								X	X		X					
					59p	4:2:0				8	2	16	X							X	X		X					
										8	4	16	X							X	X		X					
				720p	50p	4:2:0	8	2	16	X							X	X		X								
							8	4	16	X							X	X		X								
					29.976p	4:2:0	8	2	16								X	X		X								
							8	2	16								X	X		X								
					25p	4:2:0	8	4	16								X	X		X								
							8	2	16								X	X		X								
				720p	23.98p	4:2:0	8	4	16								X	X		X								
							8	2	16								X	X		X								

Device Format	Format Tradename	Wrapper	Codec	Codec Tradename	Standard	Bitrate	Raster	Frame Rate	Color Sampling	Component Bit Depth	Audio Channels	Audio Bit Depth	AirSpeed® Multi-Stream Ingest	Capture	Import	Fast Import	Link Via AMA	Real-Time Edit	Proxy Support	Render	Write-Back to Original Device	Export to File	
Sony XDCAM	XDCAM HD XDCAM HD420	MXF OP-1A	MPEG-2 Long-GOP	XDCAM HD 17.5	HD	18 Mbps VBR	1080i	59.94i	4:2:0	8	2	16	X		X		X	X	X	X	X		
										8	4	16	X		X		X	X	X	X	X		
							50i	4:2:0	8	2	16	X		X		X	X	X	X	X			
									8	4	16	X		X		X	X	X	X	X			
							1080p	23.976p	4:2:0	8	2	16			X		X	X	X	X			
									8	4	16			X		X	X	X	X	X			
				XDCAM HD 25	HD	25 Mbps	1080i	59.94i	4:2:0	8	2	16	X		X		X	X	X	X	X		
									8	4	16	X		X		X	X	X	X	X			
							50i	4:2:0	8	2	16	X		X		X	X	X	X	X			
									8	4	16	X		X		X	X	X	X	X			
							1080p	23.976p	4:2:0	8	2	16			X		X	X	X	X			
									8	4	16			X		X	X	X	X	X			
				XDCAM HD 35	HD	35 Mbps VBR	1080i	59.94i	4:2:0	8	2	16	X		X		X	X	X	X	X		
									8	4	16	X		X		X	X	X	X	X			
							50i	4:2:0	8	2	16	X		X		X	X	X	X	X			
									8	4	16	X		X		X	X	X	X	X			
							1080p	23.976p	4:2:0	8	2	16			X		X	X	X	X			
									8	4	16			X		X	X	X	X	X			
	XDCAM HD 50	HD	50 Mbps	1080i	59.94i	4:2:2	8	8	24	X	X	X		X	X	X	X	X					
						50i	4:2:2	8	8	24	X	X	X		X	X	X	X	X				
				1080p	23.976p	4:2:2	8	8	24			X	X		X	X	X	X	X				
					25p	4:2:2	8	8	24			X	X		X	X	X	X	X				
				29p	4:2:2	8	8	24			X	X		X	X	X	X	X					
				720p	59p	4:2:2	8	8	24	X	X	X		X	X		X	X		X	X		
					50p	4:2:2	8	8	24	X	X	X		X	X		X	X		X	X		
				DVCAM	MXF OP-1A	DV 25	DV 25 411 DV 25 420	SD	25 Mbps	NTSC	30i	4:1:1	8	4	16		X	X		X	X	X	X
	4:2:0	8	4									16		X	X		X	X	X	X	X		
	PAL	25i	4:1:1								8	4	16		X	X		X	X	X	X	X	
		4:2:0	8								4	16		X	X		X	X	X	X	X	X	

Device Format	Format Tradename	Wrapper	Codec	Codec Tradename	Standard	Bitrate	Raster	Frame Rate	Color Sampling	Component Bit Depth	Audio Channels	Audio Bit Depth	AirSpeed® Multi-Stream Ingest	Capture	Import	Fast Import	Link Via AMA	Real-Time Edit	Proxy Support	Render	Write-Back to Original Device	Export to File		
Sony XDCAM	MPEG-IMX	MXF OP-1A	MPEG-2 I-Frame 30	MPEG-IMX 30	SD	30 Mbps	NTSC	30i	4:2:2	8	4	16	X	X	X		X	X	X	X	X			
												24	X	X	X		X	X	X	X	X			
												8	16	X	X	X		X	X	X	X	X		
							24	X	X	X		X	X	X	X	X								
							PAL	25i	4:2:2	8	4	16	X	X	X		X	X	X	X	X			
													24	X	X	X		X	X	X	X	X		
			8	16	X	X							X		X	X	X	X	X					
			24	X	X	X		X	X	X	X	X												
			MPEG-2 I-Frame 40	MPEG-IMX 40	SD	40 Mbps	NTSC	30i	4:2:2	8	4	16		X	X		X	X	X	X	X	X	X	
													24		X	X		X	X	X	X	X		
													8	16		X	X		X	X	X	X	X	
											24		X	X		X	X	X	X	X				
	PAL	25i									4:2:2	8	4	16		X	X		X	X	X	X	X	
															24		X	X		X	X	X	X	X
			8	16		X	X		X	X					X	X	X							
	24		X	X		X	X	X	X	X														
	MPEG-4	MPEG-4	MPEG-4	MPEG-4 Advanced Simple Real Time	MPEG-4	SD	1.5 Mbps	NTSC	30i	4:2:0	8	4	16			X		X	X	X	X	X		
													24			X		X	X	X	X	X		
													8	16			X		X	X	X	X	X	
								24			X		X	X	X	X	X							
								PAL	25i	4:2:0	8	4	16			X		X	X	X	X	X		
														24			X		X	X	X	X	X	
				8	16									X		X	X	X	X	X				
				24			X		X	X	X	X	X											

Device Format	Format Tradename	Wrapper	Codec	Codec Tradename	Standard	Bitrate	Raster	Frame Rate	Color Sampling	Component Bit Depth	Audio Channels	Audio Bit Depth	AirSpeed® Multi-Stream Ingest	Capture	Import	Fast Import	Link Via AMA	Real-Time Edit	Proxy Support	Render	Write-Back to Original Device	Export to File							
Sony HDCAM SR	HDCAM SR-Lite	MXF	MPEG-4 SStP (Simple Studio Profile)		HD	~220 Mbps	720p	50p	4:2:2 (YUV)	10								X											
								59.94p	4:2:2 (YUV)	10								X											
							1080p	23.976p	4:2:2 (YUV)	10														X					
								24p	4:2:2 (YUV)	10														X					
								25p	4:2:2 (YUV)	10														X					
							1080i	29.97p	4:2:2 (YUV)	10														X					
								50i	4:2:2 (YUV)	10														X					
		59.94i	4:2:2 (YUV)	10														X											
	HDCAM SR-SQ	MXF	MPEG-4 SStP (Simple Studio Profile)		HD	~440 Mbps	720p	50p	4:2:2 (YUV)	10									X										
								59.94p	4:2:2 (YUV)	10													X						
							1080p	23.976p	4:2:2 (YUV) and 4:4:4 (RGB)	10														X					
								24p	4:2:2 (YUV) and 4:4:4 (RGB)	10														X					
								25p	4:2:2 (YUV) and 4:4:4 (RGB)	10														X					
							1080i	29.97p	4:2:2 (YUV) and 4:4:4 (RGB)	10														X					
50i								4:2:2 (YUV) and 4:4:4 (RGB)	10														X						
	59.94i	4:2:2 (YUV) and 4:4:4 (RGB)	10														X												

Device Format	Format Tradename	Wrapper	Codec	Codec Tradename	Standard	Bitrate	Raster	Frame Rate	Color Sampling	Component Bit Depth	Audio Channels	Audio Bit Depth	AirSpeed® Multi-Stream Ingest	Capture	Import	Fast Import	Link Via AMA	Real-Time Edit	Proxy Support	Render	Write-Back to Original Device	Export to File	
Sony AVCHD	AVCHD	MTS	H.264	MPEG-4 AVC/ MPEG-4 Part 10	HD	~25 Mbps	1080i								X								
Sony NXCAM	AVCHD	MTS	H.264	MPEG-4 AVC/ MPEG-4 Part 10	HD	~25 Mbps	1080i								X								
Canon AVCHD	AVCHD	MTS	H.264	MPEG-4 AVC/ MPEG-4 Part 10	HD	~25 Mbps			4:2:0	8					X								
JVC AVCHD	AVCHD	MTS	H.264	MPEG-4 AVC/ MPEG-4 Part 10	HD	~25 Mbps									X								
Panasonic AVCCAM	AVCHD	MTS	H.264	MPEG-4 AVC/ MPEG-4 Part 10	HD	~25 Mbps									X								

Application-Generated Format	Format Tradename	Wrapper	Codec	Codec Tradename	Standard	Bitrate	Raster	Frame Rate	Color Sampling	Component Bit Depth	Audio Channels	Audio Bit Depth	AirSpeed Multi-Stream Ingest	Capture	Import	Fast Import	Link Via AMA	Real-Time Edit	Proxy Support	Render	Write-Back to Original Device	Export to File		
QUICKTIME Note: Not all supported file formats may be listed here, but Avid makes every effort to support any file that plays in the QuickTime Player.			DV 25 411		SD	25 Mbps					2				X		X					X		
			DV 50		SD	50 Mbps						4					X		X					X
			DV 100		HD	100 Mbps											X		X					X
			MPEG 30		SD	30 Mbps							4				X		X					X
			MPEG 40		SD	40 Mbps							4				X		X					X
			MPEG 50		SD	50 Mbps							4				X		X					X
			1:1 MXF		SD/HD												X		X					X
			All Avid DNxHD® codecs		HD									8/16/24			X		X					X
			DV PAL 420		SD									8/16/24			X		X					X
			DV NTSC 411		SD									8/16/24			X		X					X
			DVC PRO 50		SD				PAL and NTSC					8/16/24			X		X					X
			DV 100		SD				PAL and NTSC					8/16/24			X		X					X
			XDCAM HD		HD				1080i, 1080p					8/16/24			X		X					X
			XDCAM HD 422		HD				720p, 1080p, 1080i					8/16/24			X		X					X
			ProRes		HD												X		X					X
AVC-Intra (H.264)		HD				50 and 100 Mbps								X		X								
AVI		AVI													X		X					X		
MPEG	HDV	M2T	MPEG-2 Long GOP												X		X					X		
	AVCHD	MTS	H.264												X		X					X		
JPG		JPG													X		X					X		
PNG		PNG													X		X					X		
TIFF		TIFF													X		X					X		
PSD		PSD													X		X					X		

Application-Generated Format	Format Tradename	Wrapper	Codec	Codec Tradename	Standard	Bitrate	Raster	Frame Rate	Color Sampling	Component Bit Depth	Audio Channels	Audio Bit Depth	AirSpeed Multi Stream Ingest	Capture	Import	Fast Import	Link Via AMA	Real-Time Edit	Proxy Support	Render	Write-Back to Original Device	Export to File		
MXF		OP-Atom	D10														X							
			VC-3	DNxHD	HD		All HD							X	X				X	X		X		
		OP-1A	DV 50												X				X					
			HDV												X				X					
			MPEG 30												X				X					
			MPEG 40																X					
			MPEG 50												X				X					
			MPEG-2 HD Long-GOP 50												X				X					
			MPEG-2 HD I-Frame 100																X					
			DV25	DVCAM															X					
			XDCAM HD												X		X		X					