

ANALOG & DIGITAL TAPE CONVERSION GUIDE • NOVEMBER 2020

FIRST, FIND THE DECK TO MATCH YOUR TAPES! THEN LOOK IN BOTTOM SECTION TO DECIDE ON A CONVERSION METHOD.	SOURCES - FORMAT COMPATIBILITY														INPUTS/OUTPUTS																			
	NTSC	PAL	3/4" Umatic SP	Betamax	SuperBeta	Video8	Hi8	Digital8	VHS	Super VHS	DVD Recorder	DV/DVCAM Small	DV/DVCAM Large	DVCPRO 50/25	DVCPRO HD	HDV	Betacam / Beta SP	Beta SX	DigiBeta	MPEG / IMX	HDCAM / SR	DAT Digital Audio	Audio Cassette	RCA Analog Audio	XLR Audio	Coax Digital Audio	BNC Analog	S-Video	Deck Control	Firewire Input	Firewire Output	HDMI	SDI / HD-SDI	
Sony VO-9850 U-Matic w/ TBC, SDI	X		X																					X										X
Sony SL-HF750 Superbeta NTSC	X			X	X																			X										
Sony EV-C100 Compact Hi8 / Video 8 NTSC	X					X	X																	X				X						
Sony EV-C200 Hi8 / Video 8 NTSC	X					X	X																	X				X						
Sony TRV-350 Digital8 NTSC	X					X	X	X																X				X		X				
Panasonic AG-1980 S-VHS	X								X	X														X			X	X						
Panasonic DMR-ES35V VHS/DVD Recorder	X								X	X	X													X				X		X				
Samsung SV-5000W World VHS	X	X							X															X				X						
Sony DSR-25 DVCAM	X	X									X	X												X			X	X	X	X	X			
Sony DSR-45 DVCAM	X										X	X												X	X	X	X	X	X	X	X			
Sony DSR-1500A DVCAM w/ SDI	X										X	X												X		X	X	X	X	X	X			X
Sony HVR-M25U HDV w/HDMI	X	X									X	X				X								X				X	X	X	X			
Sony HVR-1500 HDV w/ SDI	X	X									X	X				X								X		X	X	X	X	X	X			X
Sony J-3SDI DigiBeta w/ SDI	X	X															X	X	X	X				X	X	X	X	X	X	X				X
Sony J-30SDI DigiBeta w/ SDI	X	X															X	X	X	X				X	X	X	X	X	X	X				X
Panasonic AJ-HD1400 DVCPRO HD	X										X	X	X	X										X		X	X	X	X	X				X
Sony SRW-5500 HDCAM SR Player	X	X																			X			X		X	X	X	X					X
Panasonic SV-3800 DAT Deck																						X		X		X								
TASCAM DA-20 DAT Deck																						X		X		X								
Pioneer Audio Cassette Deck																							X		X									

INTO COMPUTER TO EDIT - Firewire (DV/HDV) or ProRes

1. **FIREWIRE:** The DV/HDV codecs provide a great balance between quality and file sizes. All Firewire-option decks come with Thunderbolt to Firewire adapter if needed. **HOWEVER: DV/HDV tapes are highly prone to timecode breaks, which can make capturing by Firewire a nightmare.**

2. **BEST METHOD -- PRORES/Avid DNxHD:** 10 bit 4:2:2 codecs that are much higher quality than DV. You will need to rent the **Blackmagic Ultrastudio 4K, Ultrastudio Express** or **Ultrastudio Mini Recorder** to capture these over Thunderbolt. This allows bypassing timecode breaks. For **DV** or **DVCAM**, you will need the **AJ-HD1400, HVR-1500,** or **DSR-1500A** decks for this method. For **HDV**, you will need the **HVR-1500A**, and for **DVCPRO** or **DVCPROHD** you will need the **AJ-HD1400**. For **Hi8** or **Video8**, you will need the **EV-C100**, and for **VHS** you will need the **AG-1980**. **H264 STREAMING FILES & DVDs** can be easily generated from these high quality files. I offer many capture computers as well as DVD burners for rent.

NEW - DEINTERLACE AND UP-CONVERT VIA TERANEX

NOW OFFERED - STATE OF THE ART TERANEX EXPRESS & TERANEX 2D. Teranex is the gold standard used by broadcasters worldwide, for hardware deinterlacing and up-converting. Because of its intelligent algorithms which analyze adjacent frames to build missing information, it results in files that are literally TWICE the resolution of any software method. For the Teranex Express, all you need is an SDI video signal, and you can up-convert to 1080p or even 4K. The Teranex 2D allows you to go straight from an analog source (or SDI /HDMI) through the Teranex, and then into your computer via a Thunderbolt cable. This is a much simpler setup, though it can only up-convert to 1080p or 2K. I can help you figure out what you will need for this method.

CONVERT STRAIGHT TO DVD

For real time transfers to DVD, rent any source deck (or use your own source) and rent the **DMR-ES35V DVD recorder**, which features a Firewire input for digital to digital transfers, and can record up to 8 hours on one dual layer DVD at full resolution (though <4 hours will be higher quality). It features a built in VHS deck with quasi-S-VHS playback, but the **Panasonic AG-1980 S-VHS** deck will be much higher quality. **FOR HIGHEST QUALITY DVD TRANSFERS -- Import to ProRes (above) and use software to author / create the DVDs.**

AUDIO / DAT CASSETTES --> COMPUTER

For audio cassettes, rent **Pioneer Audio Cassette Deck** with a **Focusrite Scarlett 2i2** audio interface. For **DAT digital audio cassettes**, you will need the **TASCAM DA-20** or **Panasonic SV-3800** and a **Focusrite Scarlett 18i8** audio interface.

FULLY EQUIPPED EDIT SYSTEMS / LAPTOPS AVAILABLE FOR RENT

FREE CONSULTATION BEFORE BOOKING • BUNDLE/TIME DISCOUNTS AVAILABLE

DON'T WANT TO DO IT YOURSELF? I'LL CONVERT FOR YOU!

PROFESSIONAL QUALITY PRORES/AVID DNxHD CONVERSIONS AVAILABLE.

VISIT AVGEARGUY.COM OR CONTACT FOR RATES, REQUESTS: 818-312-5128 • gray@avgearguy.com