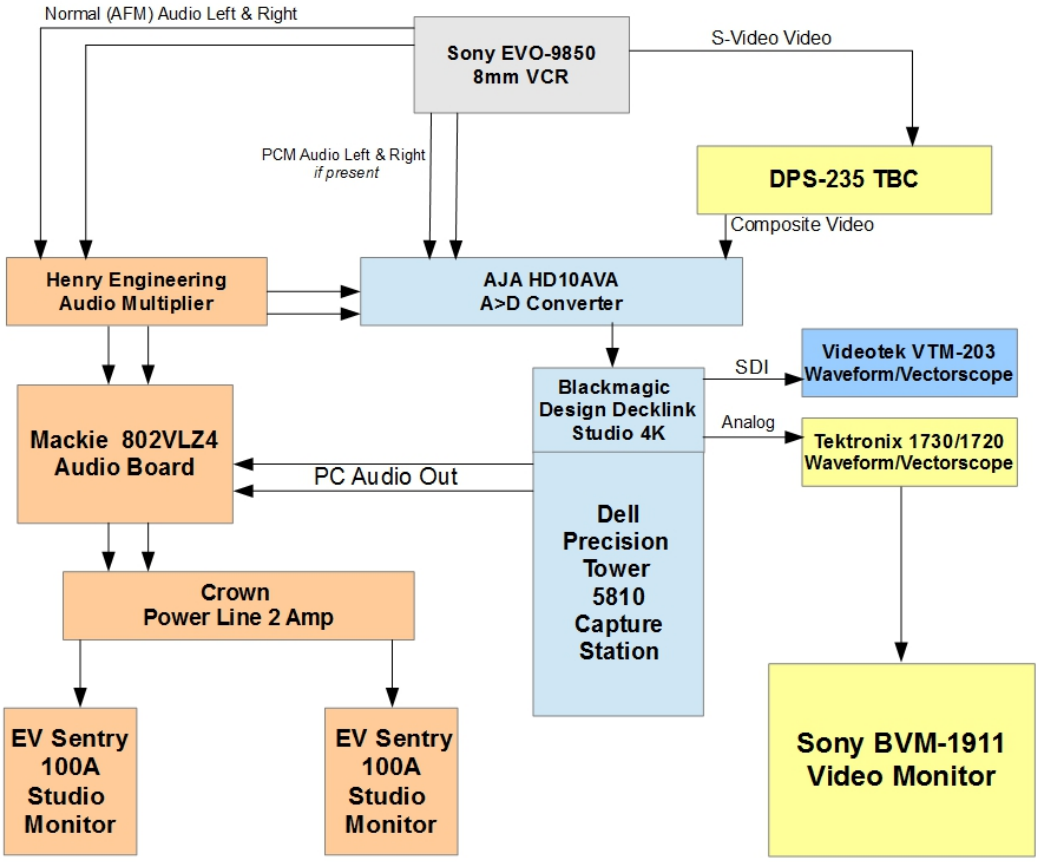
**IU Media Digitization Studios**
**8mm Videotape Signal Chain**
(Applies to Video8, Hi8, SP speed only)
Date of last revision: 12/7/2020




The Sony EVO-9850 will play both Video8 and Hi8 tapes recorded at the standard play (SP) speed, with and without PCM audio. (The EVO-9850 will not play long play (LP) speed tapes or Digital8 tapes.) The EVO-9850 has balanced audio outputs, so an impedance converter is not required.

When playing, the deck will automatically sense whether the tape is Video8 or Hi8 and illuminate the Hi8 indicator. If there is stable video present but no Hi8 indicator lit, the tape is a Video8. If there is PCM audio present the PCM indicator will be illuminated (not shown).


Choose a Capture Station (1 or 2) and one of the DPS-235 Time Base Correctors (TBC 2 or 3) to use for digitization (for this example we will use Capture-1 and TBC 3).

In the back of the VCR, patch the S-Video OUT from the VCR to the S-Video IN on the back of the DPS-235 TBC. (The S-Video signal will output a cleaner signal than composite out)

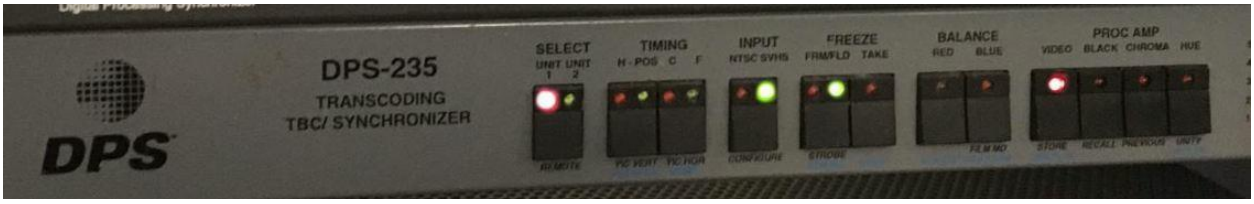

EVO-9850


DPS-235

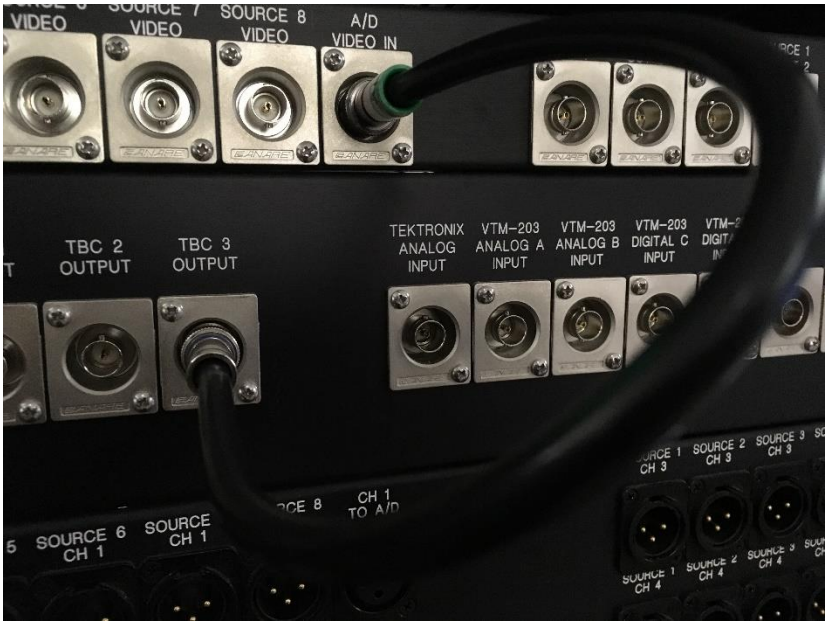
On the front of the DPS-235 TBC unit:

Press the “Select” button until “Unit1” is illuminated.

Press the “Input” button until “S-VHS” is illuminated.



Patch TBC 3 OUTPUT into A/D VIDEO IN (this sends the output of the DPS-235 TBC into the AJA HD10AVA converting the signal from analog to digital SDI).





Patch the A/D VIDEO OUT 1 into the SDI CAPTURE CARD for capture station 1 (this sends the converted SDI signal into the Blackmagic Design capture card in the PC).

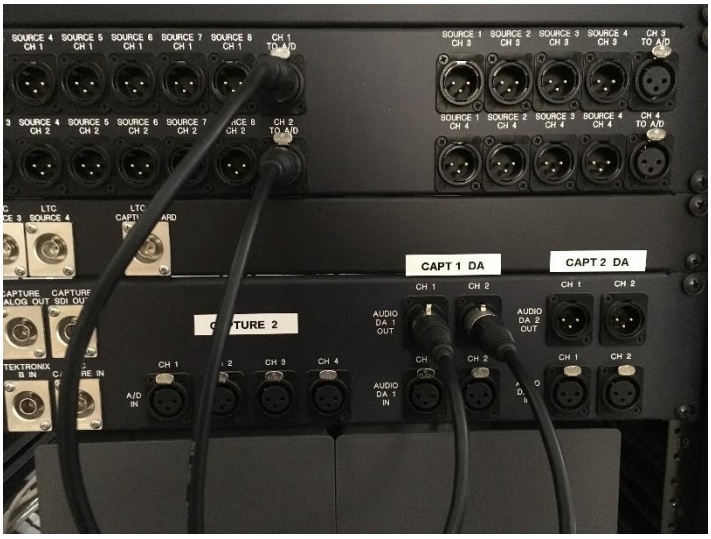

Patch the CAPTURE SDI OUTPUT into the VTM-203 DIGITAL C INPUT (this sends the SDI output of the capture card into the Videotek VTM-203 Waveform/Vectorscope which feeds the Dell monitor display on the console for signal monitoring and setup).

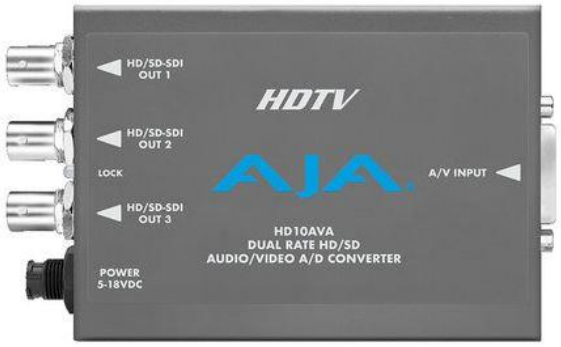

Patch the CAPTURE ANALOG OUTPUT to the TEKTRONIX ANALOG INPUT (this sends the analog output of the capture card to the rack mounted analog Tektronix 1730 Waveform Monitor and Tektronix 1720 Vectorscope)


On the XLR audio patch panel, patch VCR Source 8 channels 1 and 2 into Capture 1 Audio DA IN channels 1 and 2 (this sends the audio into the Henry Engineering Patchbox II Output Multiplier, where the signal is sent to the Mackie audio board for monitoring during digitization).



Patch Capture 1 Audio DA OUT channels 1 and 2 into A/D IN channels 1 and 2. (this sends the analog audio to the AJA HD10AVA to be embedded with the video into an SDI signal)

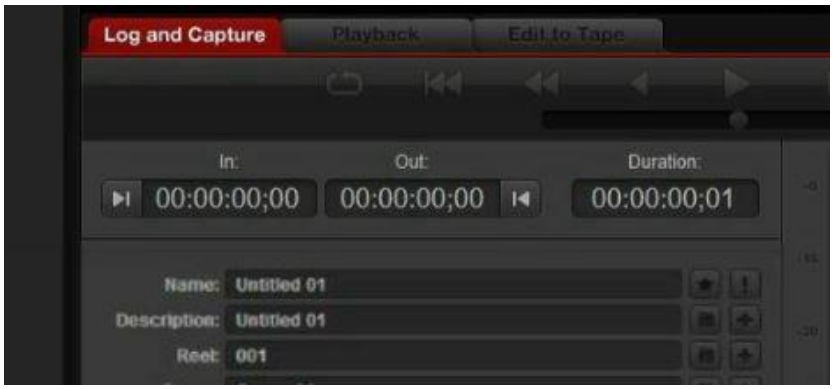


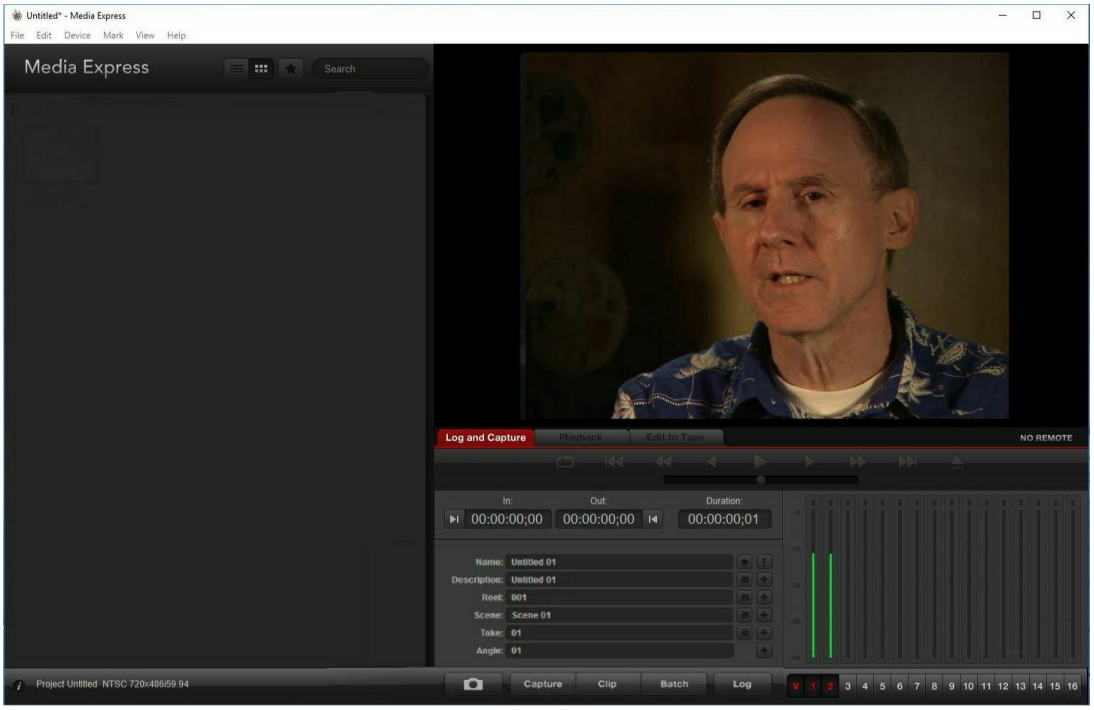

If the 8mm tape has both normal and PCM audio, all 4 tracks will need to be digitized. Special cabling will be required to access the additional channels. XLR cables out of the VCR PCM outputs will need to accompany the normal (AFM) channels. The PCM tracks should be patched TO A/D IN channels 3 and 4.


To see the video and audio levels through the capture system, launch the “Blackmagic Media Express” tool from the start menu of the Capture workstation

Press the “Log and Capture” tab.




With the source tape in play, you should now see video passing and audio levels visible on the meters. Confirm that all tracks are present.



Confirm that audio content is audible through the first two faders of the Mackie 802 VLZ4 audio board.