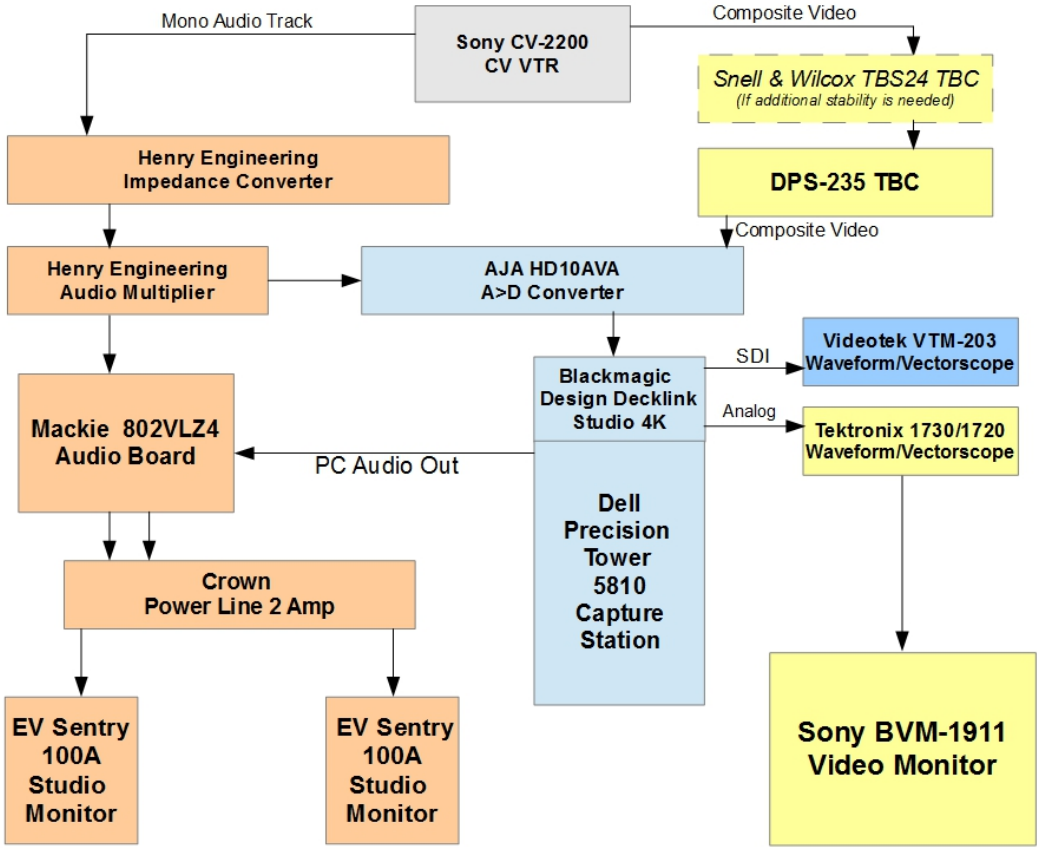
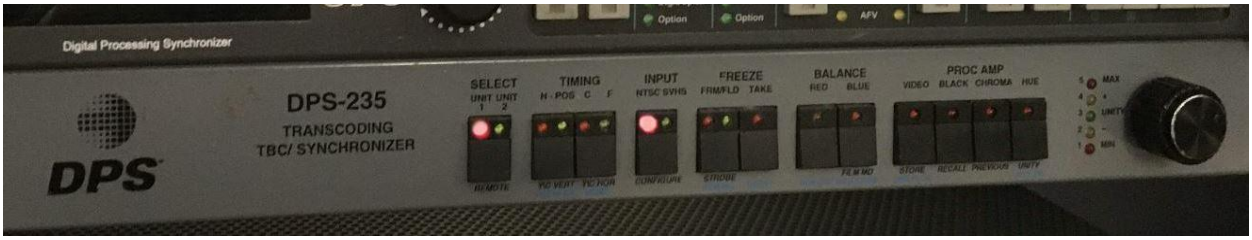
IU Media Digitization Studios
½" CV Skip Field Videotape Signal Chain
Date of last revision: 12/4/2020

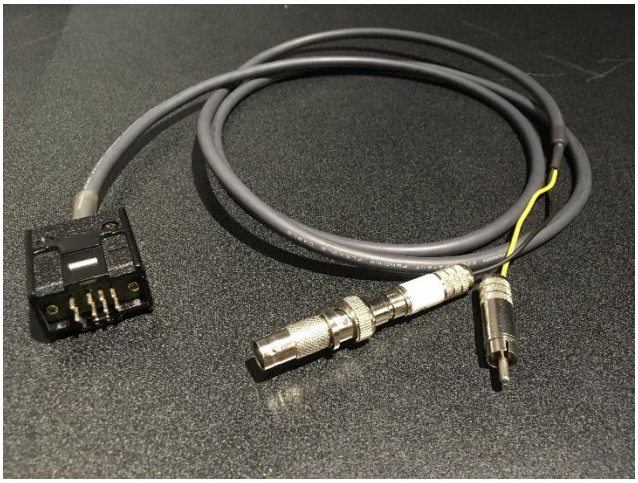


Choose a Capture Station (1 or 2) and one of the DPS-235 Time Base Correctors (TBC 2 or 3) to use for digitization (for this example we will use Capture-1 and TBC 3).

On the front of the DPS-235 TBC unit:

Press the "Select" button until "Unit1" is illuminated.
Press the "Input" button until "NTSC" is illuminated.





Using the custom 8-pin A/V cable from the Sony CV-2200 to the BNC video patch panel, patch the composite video out from the patch point marked as “1/2” into TBC 3 INPUT. 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).

(If a tape has an especially unstable video signal it may be necessary to deploy an additional TBC upstream from the DPS-235. In this case the composite output of the CV deck would be patched to the Snell & Wilcox TBS24 TBC (TBC 1). Then the output of TBC 1 would be patched into TBC 3 as described.)

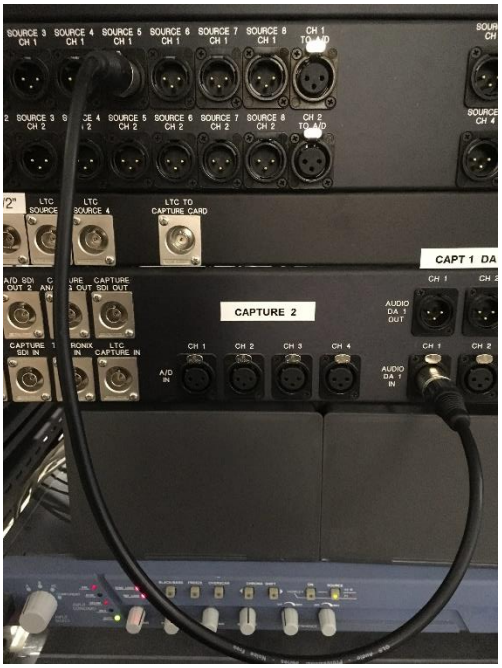
Patch the A/D VIDEO OUT 1 into the SDI CAPTURE CARD for capture station 2 (this sends the converted SDI signal into the Blackmagic Design Decklink Studio 4K capture card).

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

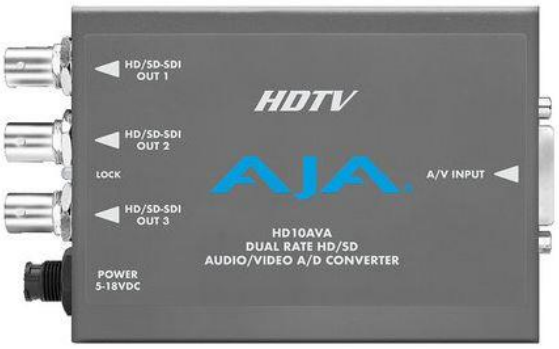
Patch the CAPTURE ANALOG OUTPUT to the TEKTRONIX ANALOG INPUT (this sends the analog output of the capture card to the rack mounted analog Tektronix 1730 Waveform Monitor and Tektronix 1720 Vectorscope)

Using the custom cable from the deck, patch the CV-2200 deck audio RCA line out into an available Henry Engineering impedance converter, RCA to RCA for properly balanced audio.

Patch the corresponding audio line on the XLR patch panel into Capture 1 Audio DA IN channel 1. For this example we used the audio line normally used for Source 5. (this sends the balanced audio into the Henry Engineering Patchbox II Output Multiplier, where the signal is sent to the Mackie audio board for monitoring during digitization).

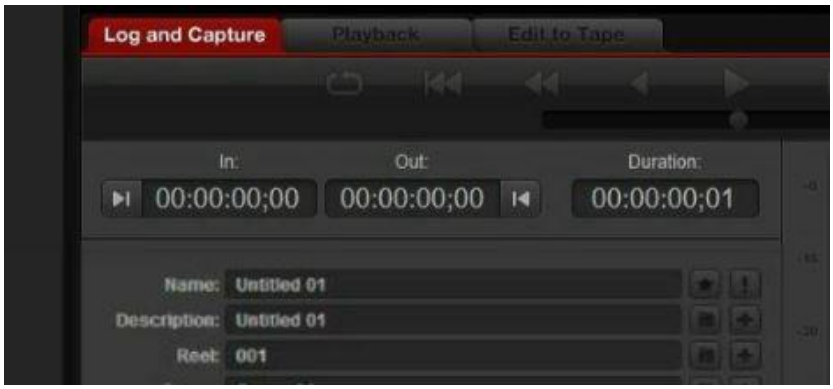


Patch Capture 1 Audio DA OUT channel 1 into TO A/D channel 1. (this sends the analog audio to the AJA HD10AVA to be embedded with the video into an SDI signal).

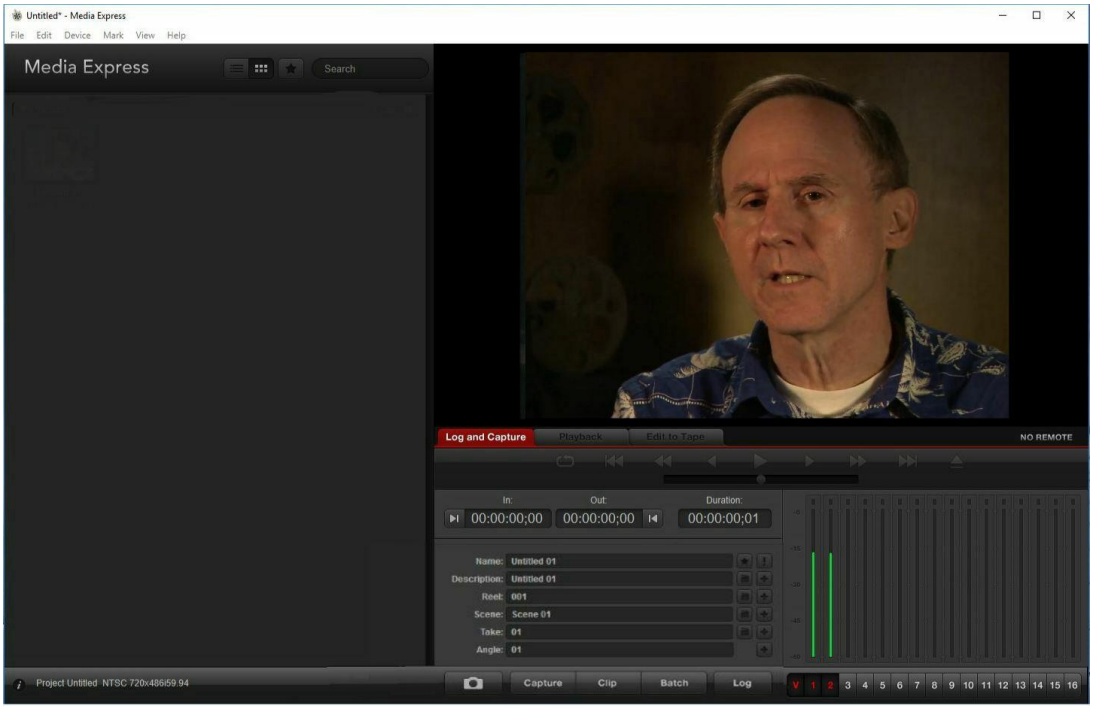


To see the video and audio levels through the capture system, launch the “Blackmagic Media Express” tool from the start menu of the Capture workstation

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.