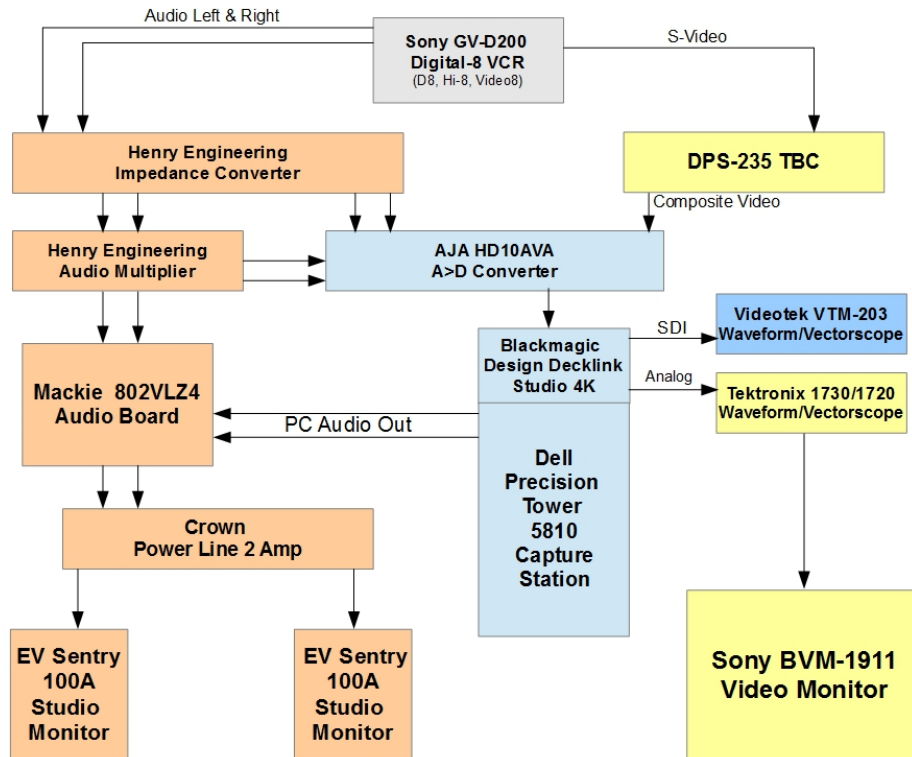


IU Media Digitization Studios
Digital 8 Videotape Signal Chain
(Applies to Video8, Hi8, Digital8)
Date of last revision: 12/3/2020



The Sony GV-D200 will play Video8, Hi8, or Digital8, but will not output audio tracks other than the normal channels, such as PCM. To determine the format type of a tape on the GV-D200, insert into the deck and play while viewing the video output with the display button engaged. Once the VTR has identified the format type it will display 8, Hi8, or Digital8 along with the speed at which the footage was recorded (Standard Play/SP or Long Play/LP).



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 side of the GV-D200, patch the S-Video OUT 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)



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 to access the S-Video.



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 Blackmagicdesign capture card in the PC)



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).



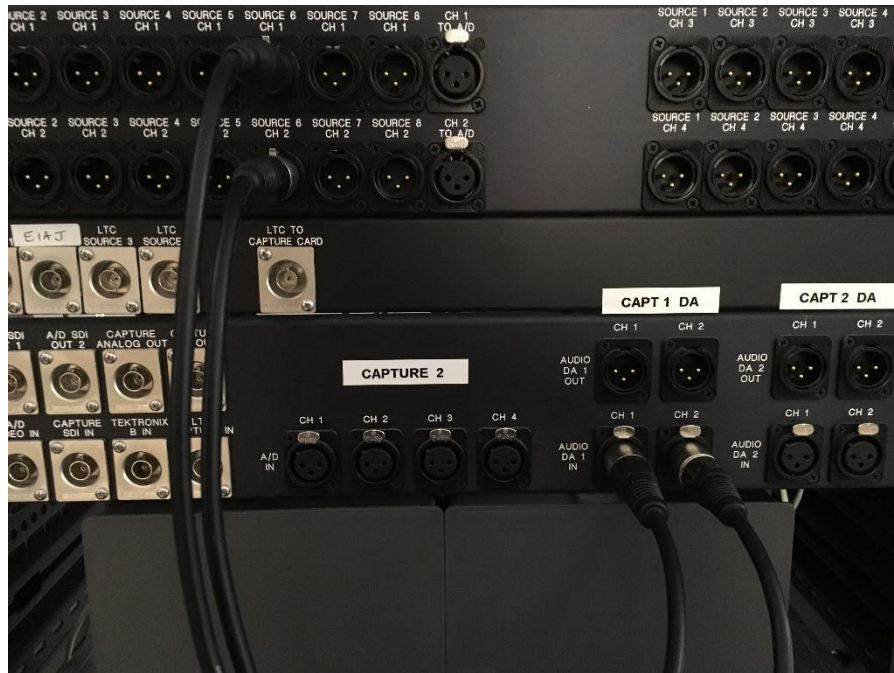
Patch the CAPTURE ANALOG OUTPUT to the TEKTRONIX ANALOG INPUT (this sends the analog output of the capture card to the rack mounted analog Tektronix 1730 Waveform Monitor and Tektronix 1720 Vectorscope)



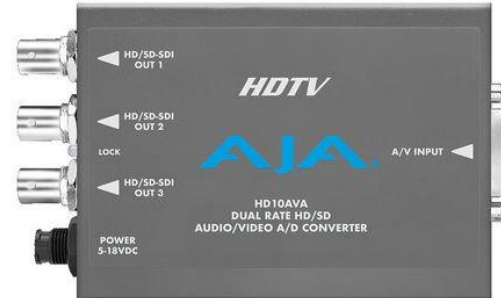
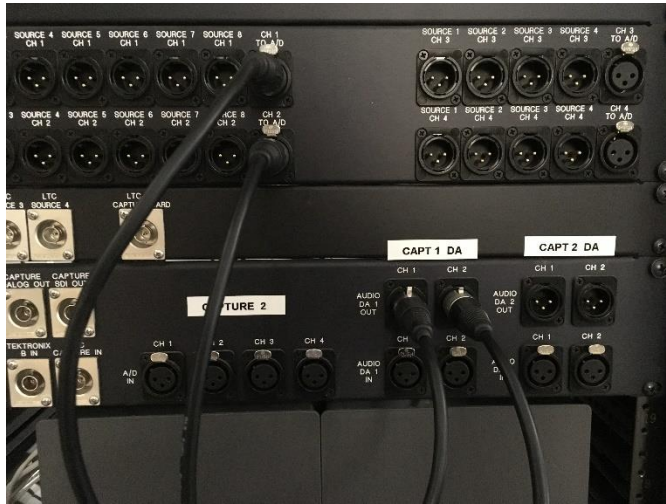
The Sony GV-D200 has unbalanced audio coming from the RCA outputs. The Henry Engineering Twinmatch Dual Stereo Level and Impedance Interface should be patch in line upstream from the patch panel so that the audio levels come out properly balanced at the patch panel.



On the XLR audio patch panel, patch the balanced source audio channels 1 and 2 into Capture 1 Audio DA IN channels 1 and 2. For this example we are utilizing the audio lines from Source 6. (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).



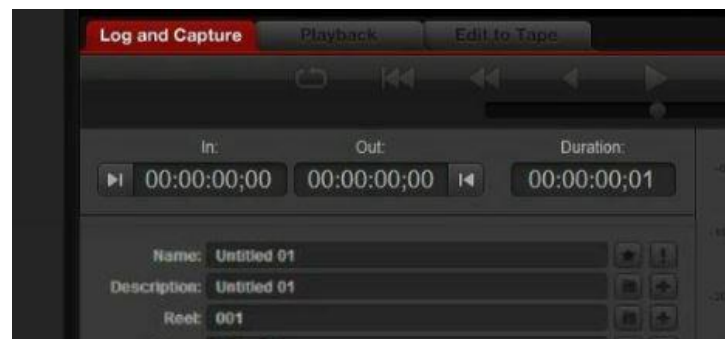
Patch DA1 channels 1 and 2 OUT into channels 1 and 2 IN of the Capture station (this sends the analog audio to the AJA HD10AVA to be embedded with the video into an SDI signal).



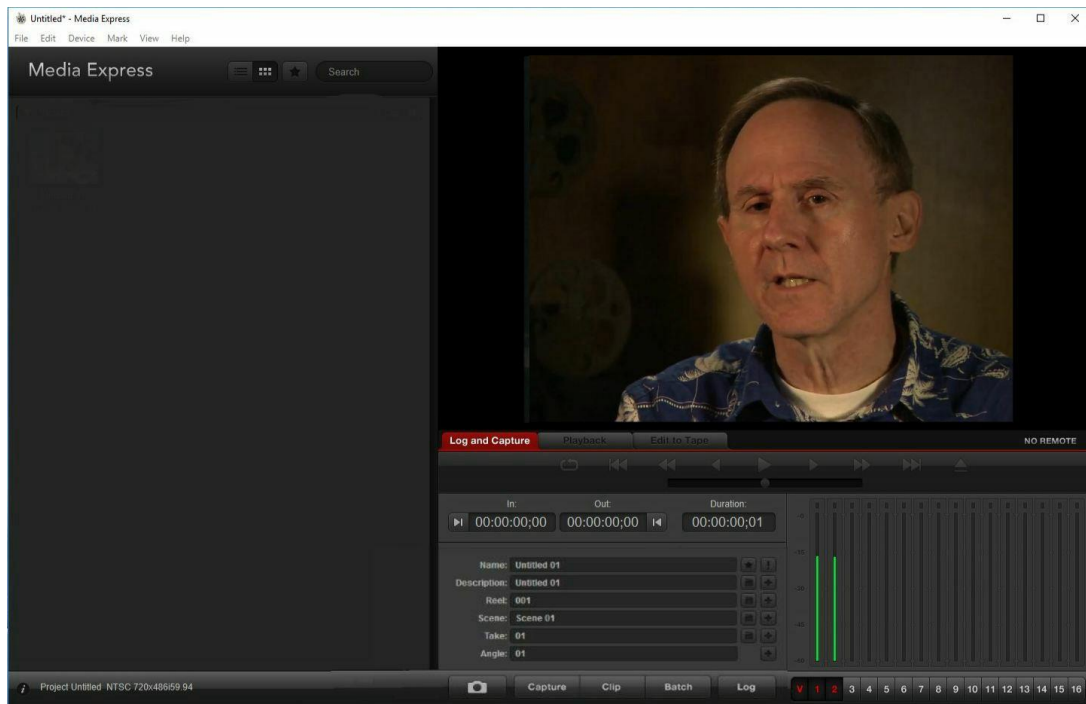
To see the video and audio levels through the capture system, launch the “Blackmagic Media Express” tool from the start menu of the Capture workstation



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.

