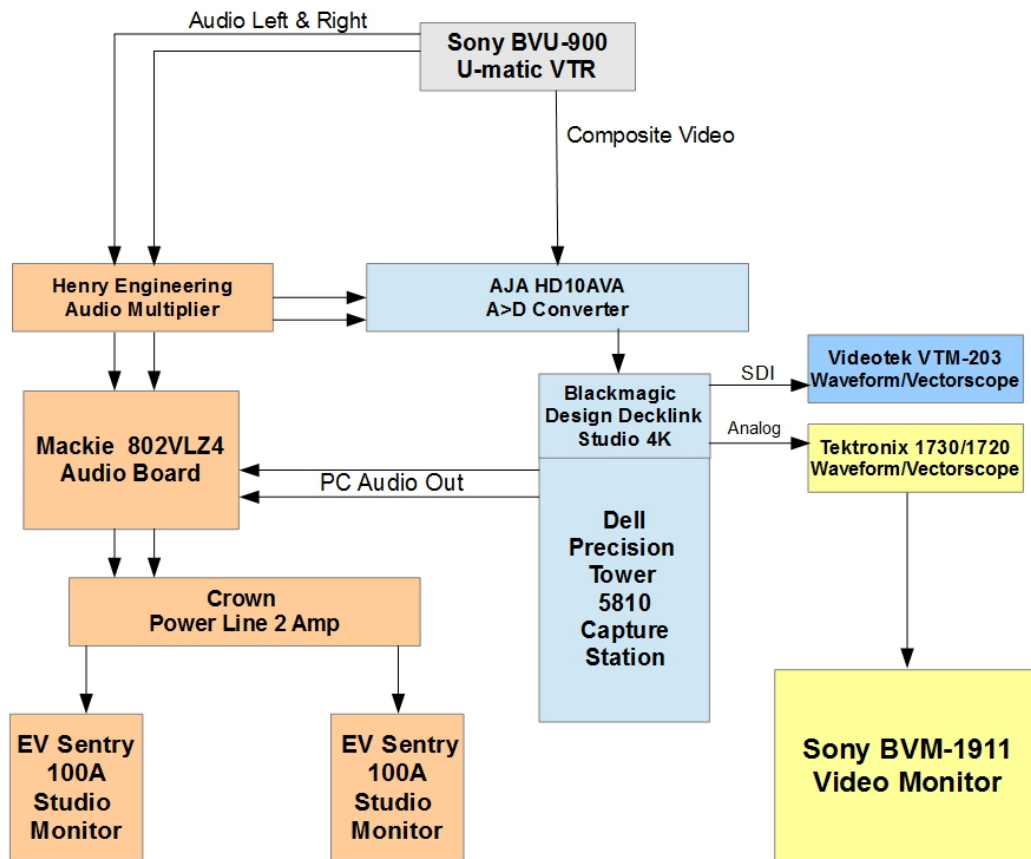


IU Media Digitization Studios

U-matic Videotape Signal Chain

Date of last revision: 12/4/2020



Choose a Capture Station (1 or 2) for digitization (for this example we will use Capture-1).

On the BNC video patch panel, patch the U-matic deck (Source 2) composite video out into A/D VIDEO IN (this sends the output of the BVU-900 into the AJA HD10AVA converting the signal from analog to digital SDI). The BVU-900 has an internal time base corrector, so an external TBC should not be needed under normal conditions.



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 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).

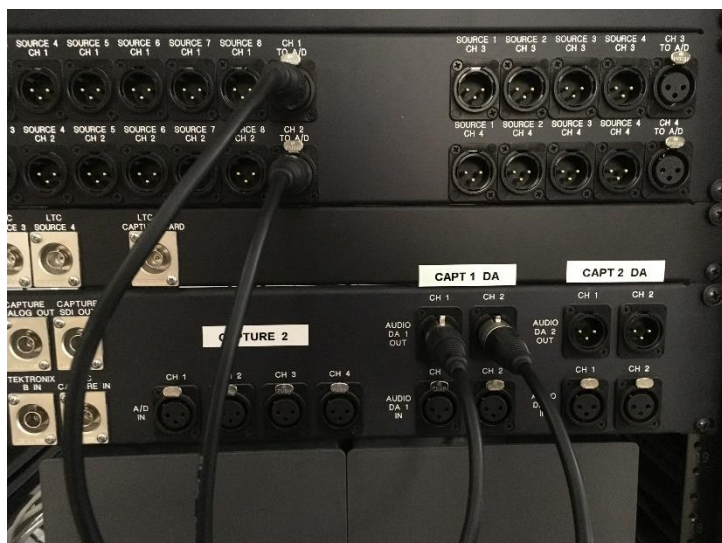


On the XLR audio patch panel, patch U-matic Source 2 channels 1 and 2 into Capture 1 Audio DA IN channels 1 and 2. (this sends the audio into the Henry Engineering Patchbox II Output Multiplier, where the signal is sent to the Mackie audio board for monitoring during digitization).





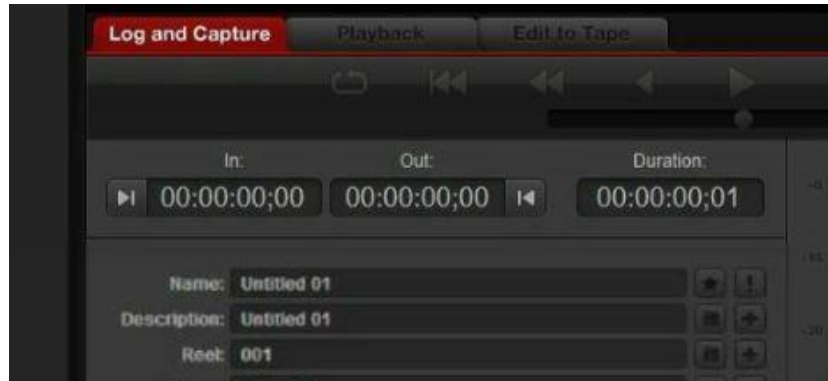
Patch Capture 1 Audio DA OUT channels 1 and 2 to A/D channels 1 and 2 IN. (This routes the U-Matic audio to the to the AJA HD10AVA to be embedded with the video into an SDI signal).



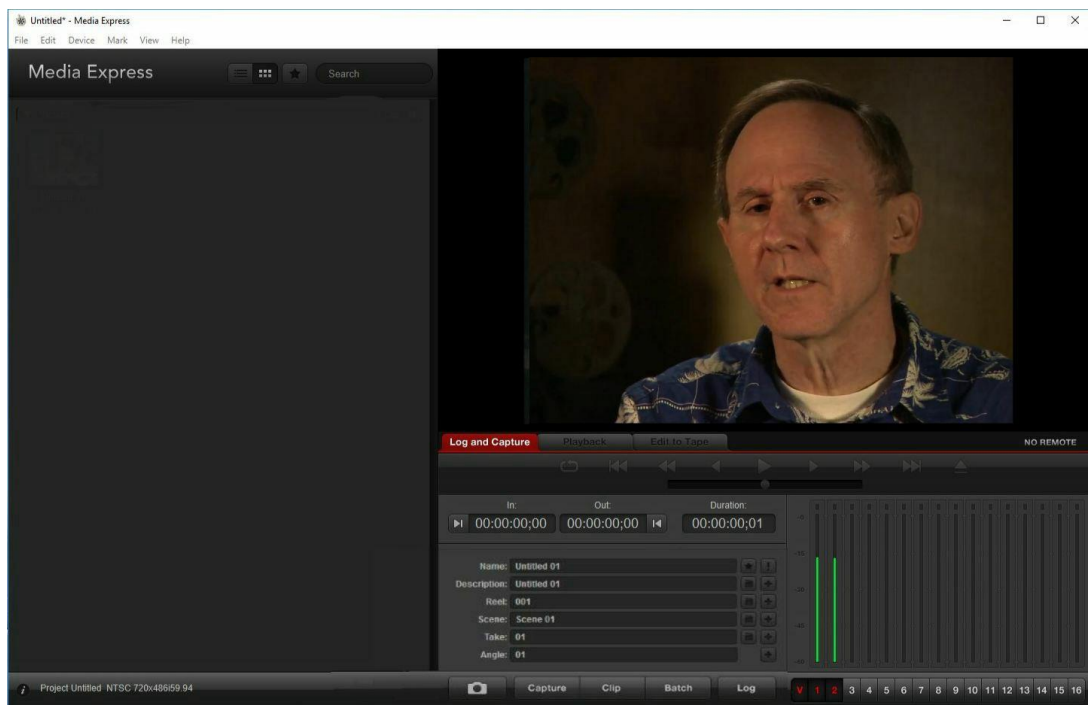
To see the video and audio levels through the capture system, launch the “Blackmagic Media Express” tool from the start menu of the Capture workstation



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.

