

# Video Encoding For the WDTV Media Player



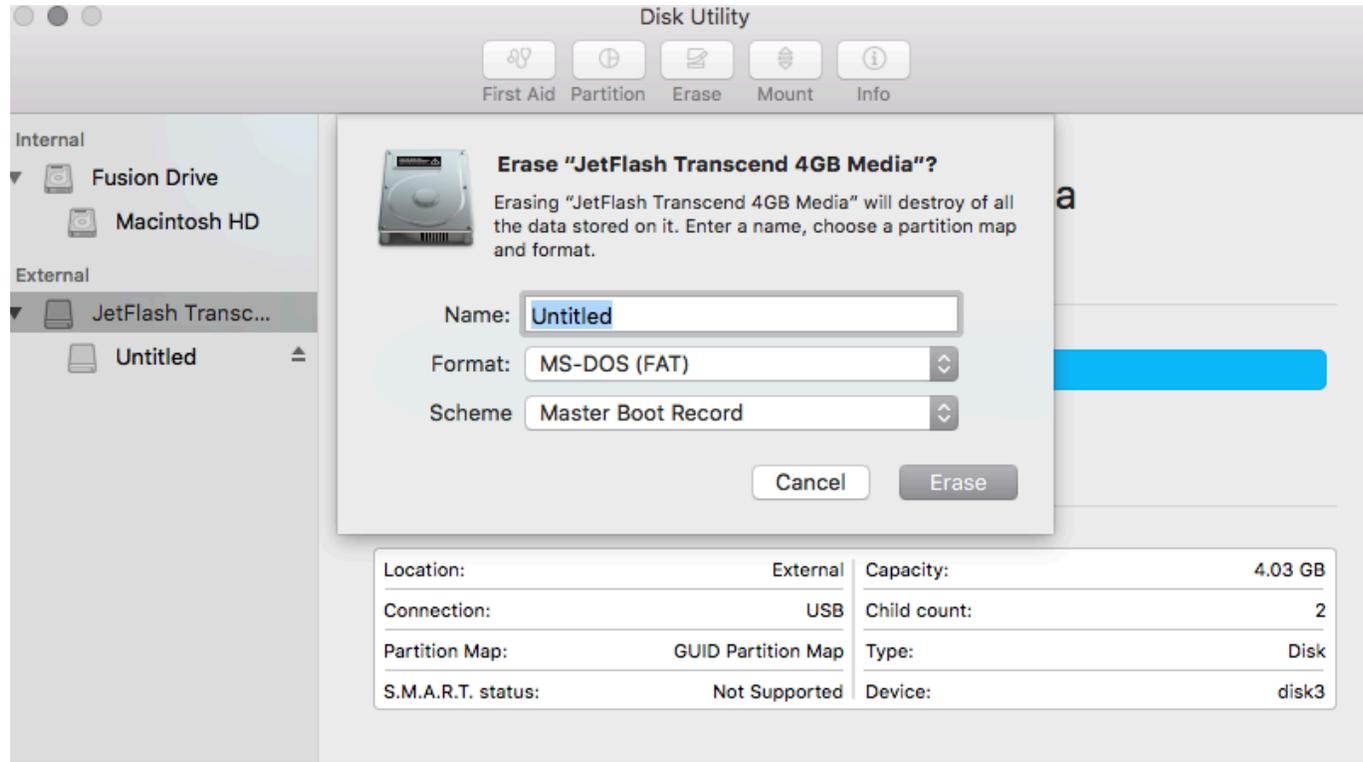
# Accepted Video Frame Rates and Sizes

- The WDTV media player can provide a looped playback of one video or a series of videos over an HDMI connection
- It supports HD video: 1920x1080 24p, 1920x1080 30p, 1280x720 24p and 1280x720 30p
- SD video is also supported but I recommend upscaling your image to 720p for projection

# WDTV Media Player Requirements

- The player requires that your video be encoded properly for playback.
- The video must be placed on a USB flash drive. Ideally there will be no other files on the drive.
- The flash drive must be formatted FAT32 or NTFS. Use FAT32 if the video file size is under 4 GB.

# Formatting the USB Flash Drive on a Mac

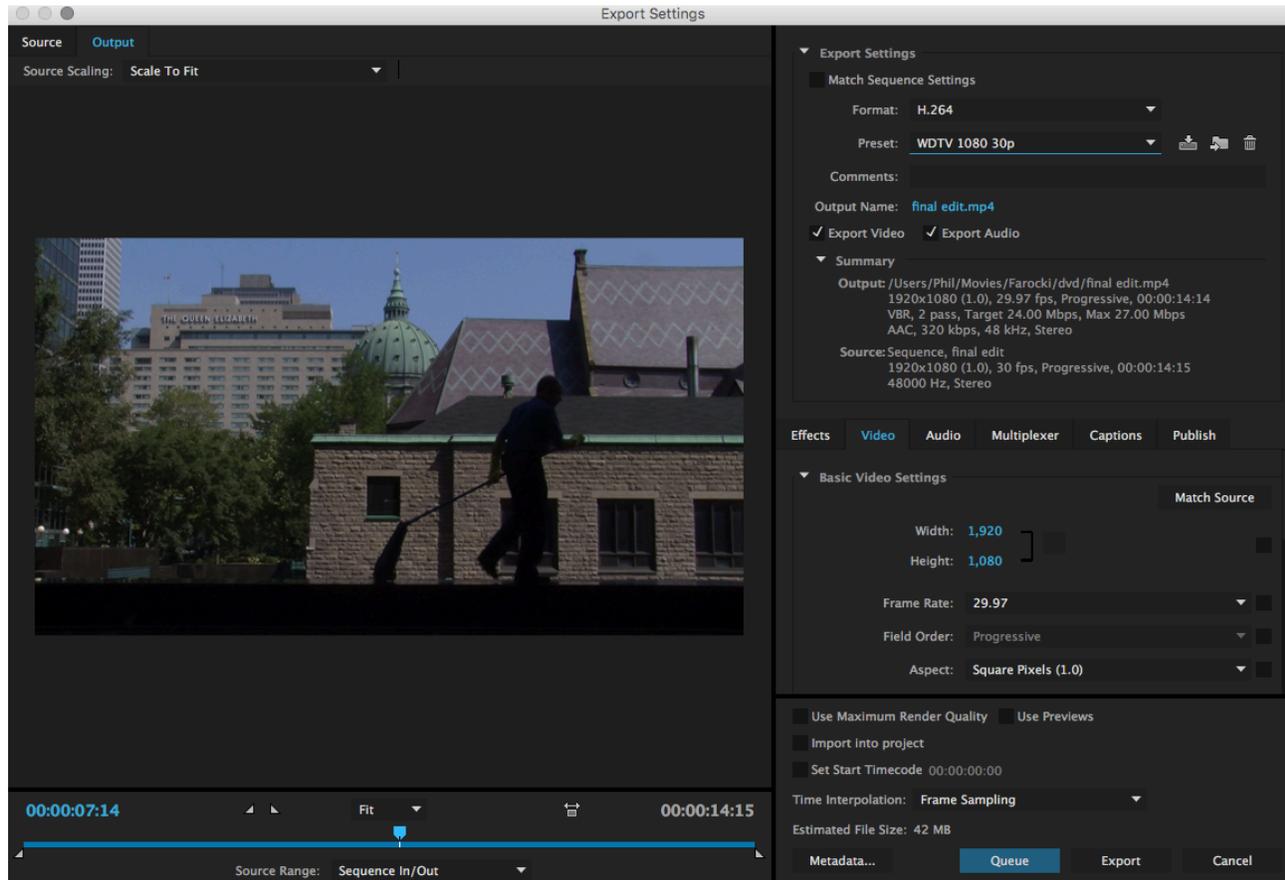


Format the Flash Drive using Disk Utility.  
The Format must be MS-DOS (FAT).  
The Scheme must be Master Boot Record.

MS-DOS (FAT) formatting (otherwise known as FAT32) does not allow individual file sizes of greater than 4 GB.

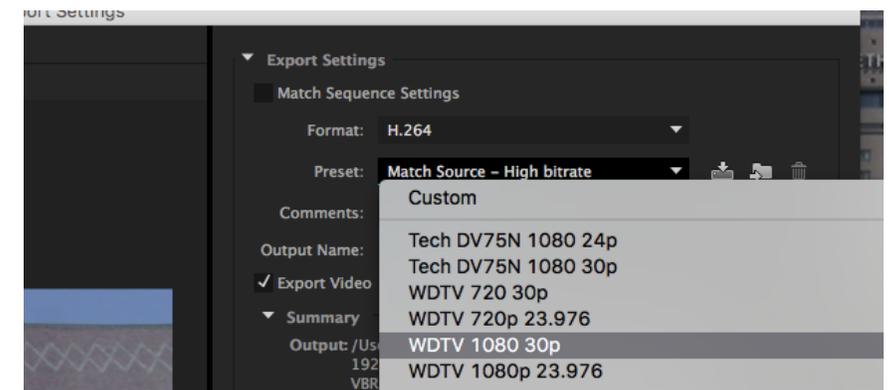
If your video file is greater than 4 GB,  
format the Flash Drive on a PC to NTFS.

# Encoding the Video Using Adobe Premiere

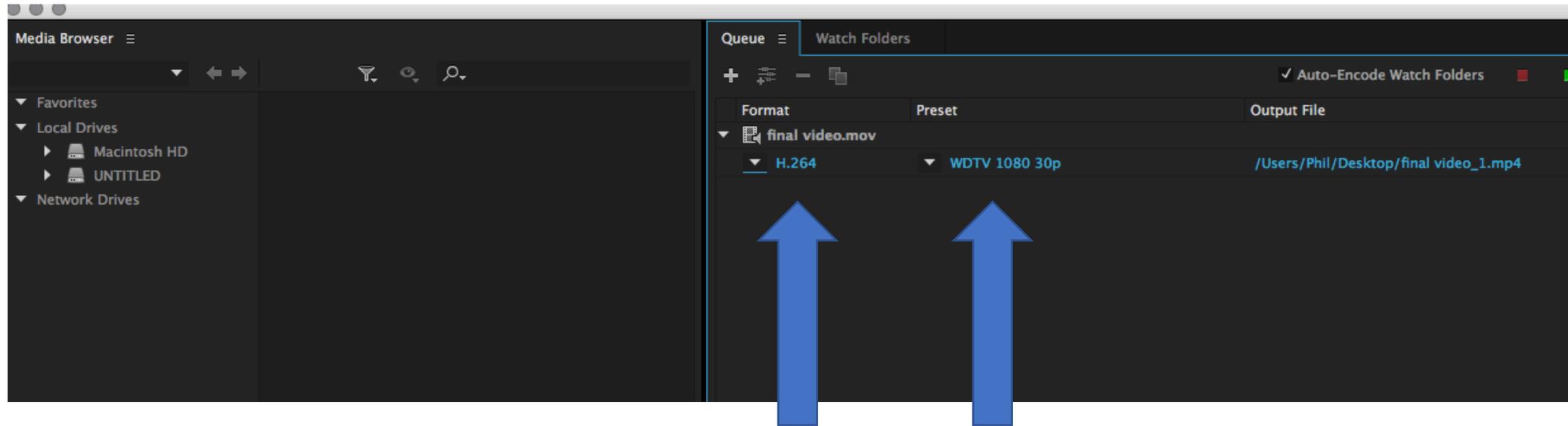


All of the CDA computers have Adobe Media encoder video encoding presets installed for the WDTV.

If you are encoding from a Premiere sequence, go to File/Export/Media. In the Export Settings Window choose **H.264** under Format, and then select the **WDTV Preset** that corresponds to your image size and frame rate.



# Encoding Using Adobe Media Encoder



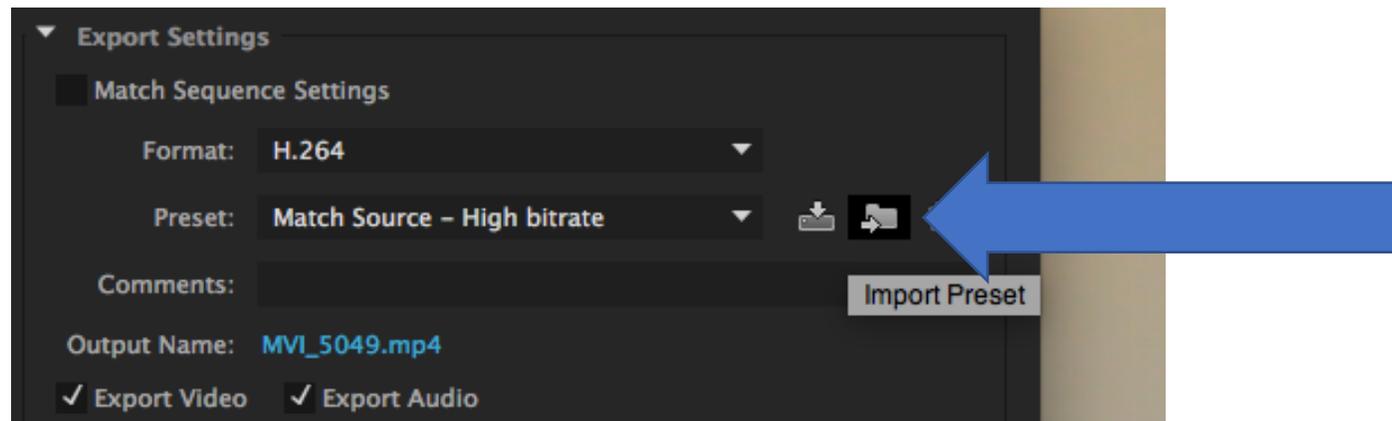
The same encoding preset can be found in Adobe Media Encoder. Select H.264 under Format and then the preset that corresponds to the video image size and frame rate.

# Importing Export Presets into Adobe Premiere



The zip file you downloaded with this guide includes the WDTV video encoding presets. These are the .epr files.

If you are using Premiere outside of the CDA, you can import these presets into the Export Settings window. Once again, go to File/Export Media, choose H.264 as the format and then click on the Import Preset Button next to the Preset window.

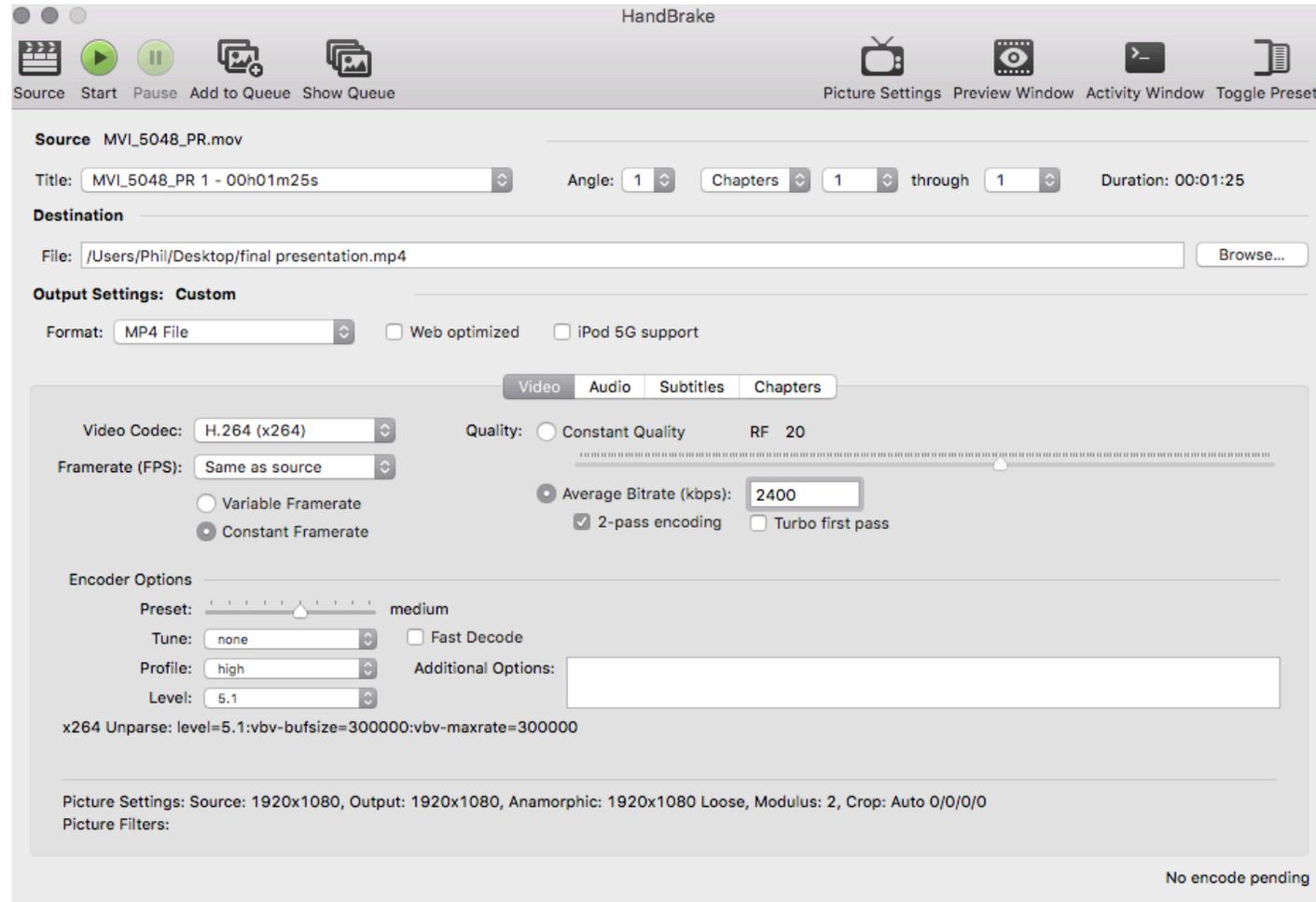


# Using Other Video Encoding Software

- Here are the video and audio encoding settings that you can type into any other software:
  - Video:
    - Size (as determined by your video – usually 1920 x 1080)
    - Frame Rate (as determined by your video – usually 24p or 30p – the output should always be progressive)
    - Profile: High
    - Level: 5.1
    - Target Bit Rate: 24 mbps
    - Maximum Bit Rate: 27 Mbps
    - VBR (Variable bit rate) 2 Pass Encoding (for best quality)
    - Key Frame Rate: 15 (for 30p), 12 (for 24p)
  - Audio:
    - AAC encoding
    - 48 kHz Stereo (depending on your video - it could be 44.1 kHz)
    - 320 kbps

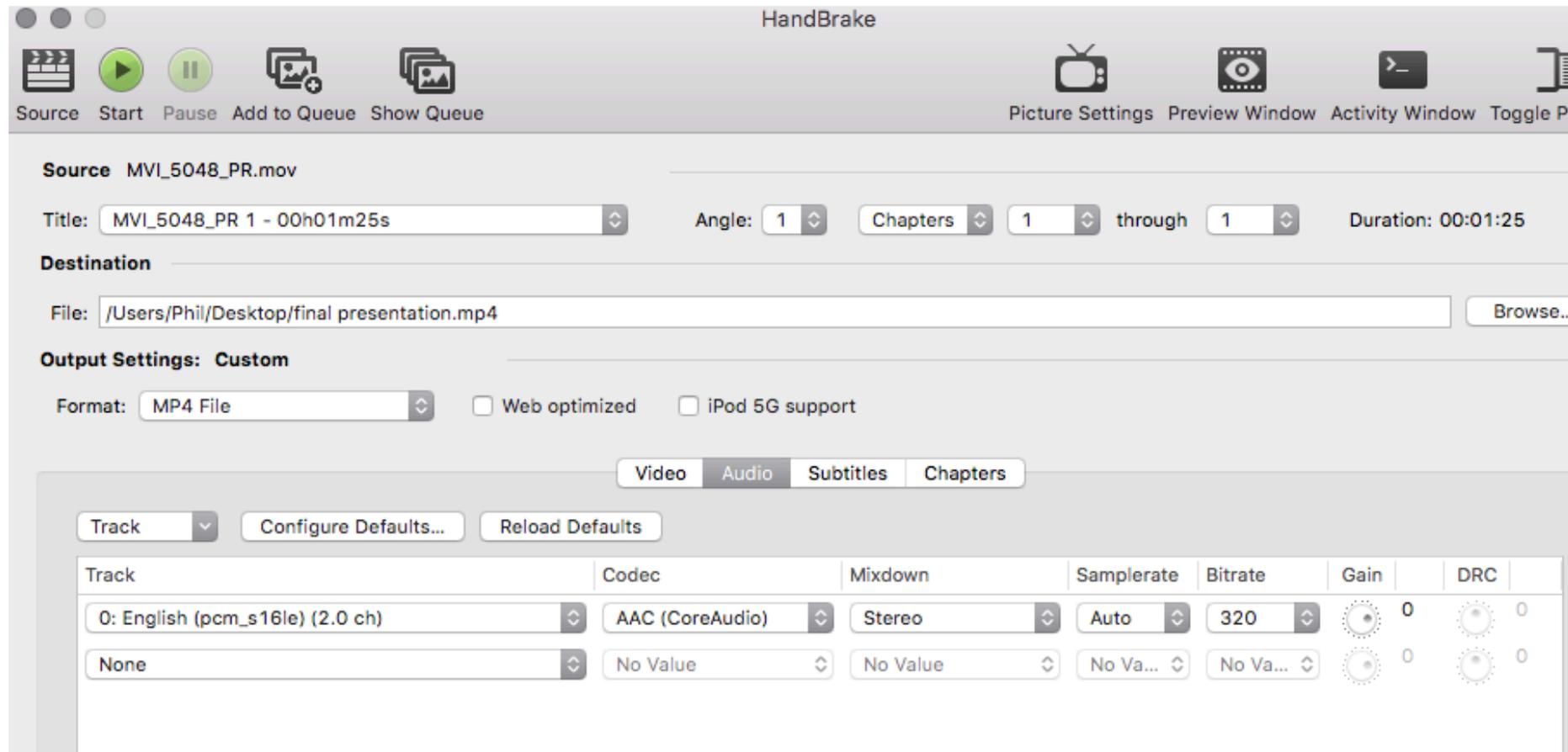
# Encoding Using Handbrake: video

- Handbrake is a free video encoding software. Here are the correct video encoding settings in Handbrake:



# Encoding Using Handbrake: audio

- Handbrake is a free video encoding software. Here are the correct audio encoding settings in Handbrake:



# Other Media Encoders at the CDA

- The CDA has eight Technovision DV75N media players.
- These players can be used for single channel playback but also for synchronized playback of multiple video channels using ethernet cable.
- Each video to be synchronized must be the identical duration.



DV75N Network Media Player