DV Video Processing using Adobe Premiere Elements (PC)

This document describes how to capture and export video and audio from a DV recording using Adobe Premiere Elements. You should know whether your recording is in PAL or NTSC format.

Requirements:

• Windows XP computer with FireWire (also called iLink or IEEE1394) connection
• Enough free hard disk space (about 250-300 MB for 1 minute of video)
• Adobe Premiere Elements 1.0 software
• DV camera suitable for your video format (PAL/NTSC)
• FireWire cable (4 to 4 pin or 4 to 6 pin)

1. Capture a DV tape

• Connect the DV camera (iLink connection) to the computer (FireWire/iLink/IEEE1394 connection) using a FireWire cable. Put the camera in Playback or VCR mode.
• Start Adobe Premiere Elements.
• In the Premiere Elements startup screen, Click "Setup" and select the "Standard 48kHz" preset under DV-PAL or DV-NTSC, depending on which format your tape is.
• Select "Capture Video". Give a name to the project and select a destination for saving.
• Click on the "More" button and make sure "Scene detect" is not selected.
• Locate the beginning of your recording using the playback controls. Note that the capturing will start up to one second later.
• Click "Capture" to start capturing, click "Stop Capture" when done.
• Close the Capture window.
• In the Media window, double click your captured clip. Go to the Monitor window and write down the start and end time codes of your captured clip. These time codes are needed in case the video needs to be captured again at some point (e.g. if you only create MPEG 1 in the field and would like to create MPEG 2 later)
• You can trim a clip by setting the in and out points (write down the time codes!) in the Monitor window and exporting the clip as AVI (File->Export->Movie... , click "Settings, select File Type: Microsoft DV AVI, Range: In to Out)

2. Export WAV audio and/or MPEG video

• Select a clip in the Media window.
• From the File menu, select Export->Audio...
• Click on the "Settings..." button and use the following settings:
     • General: File Type: Windows Waveform, Range: Entire Clip.
     • Audio: Compressor: Uncompressed, Sample Rate: 48000 Hz, Sample Type: 16-bit, Channels: Stereo, Interleave: none.
• Click "OK".
• Give the output file a name, select a destination and click "Save".

Using a separate MPEG encoder, such as TMPGEnc, is recommended to achieve better video quality, especially for MPEG 2 archive material.
If achieving the best possible video quality isn't an issue, you can create reasonable quality MPEG 1 or 2 files using Adobe Premiere Elements:
• Select a clip in the Media window.
• From the File menu, select Export->MPEG...
• Select the desired MPI custom MPEG setting (MPEG 1 or 2, PAL or NTSC) and click "OK".
• Give the output file a name, select a destination and click "Save".
• Encoding of MPEG 1 and 2 takes a long time, typically between 1 and 4 times the duration of the recording, depending on the speed of the computer.