

## **Film Upload Overview**

### **Technical Specifications**

- **Accepted formats:** .mp[e]g / .vob / .avi / .mov / .mp4 (m4v)
- **Recommended codecs:** MJPEG, Apple ProRes, H264 (bitrate if possible) > 2MBit/s and uncompressed (very large file)
- **Resolution:** PAL and NTSC (as well as SECAM) from 720x400px up to HD material of 1920x1080px
- **Audio:** 48kHz sound PCM (only uncompressed) / MP3 / AAC (if possible > 160 kBit/s)

### **Please note in addition:**

- **File Specifications:** We only accept multiplexed files (audio, video and subtitles in one film file). We also recommend to upload only progressive or de-interlaced footage.
- **Subtitles:** For subtitled films the subtitles have to be integrated (burned in) into the image.
- **Preparation of your film file:** Make sure that your film has no color bar or any sequence of blackness before and after your film.
- **UPLOAD:** There is a maximum file size of 8 GB for each film.

Please note, that the successful upload of your film file depends on a stable and proper internet connection. If your upload cannot be completed 100%, try to upload a version of your film with smaller file size and/or go online using an ethernet cable.

### **Browser & Internet Connection**

We recommend the use of latest version of Google Chrome or Safari Browser.

Please use a high speed internet connection with mininum 2 Mbit/s.

## **Different options on how to prepare your film file**

**1. How to prepare a DVD for the film upload and/or adjust length or interlaced material – Export in Handbrake**

**2. Export in Final Cut Pro**

**3. Export in AVID**

**4. Further Helpful Tools**

### **Tips:**

However, you achieve the best results with the h264 video codec as this is currently the codec that reduces the file size the most while remaining the best picture quality possible.

If you know how to deal with compression settings you can also upload 1920x1080 px movies with a data rate up to 30 Mbit, just remember the final file size shall not exceed 8 GB.

Details regarding compressions:

<http://library.creativecow.net/tutorials/compressiontechniques>

and here: <http://en.wikipedia.org/wiki/H264>

**1. How to prepare a DVD for the film upload and/or adjust length or interlaced material – Export in Handbrake**

A DVD holds a bunch of files (.VOB, .IFO and so on) inside the VIDEO\_TS folder on every DVD. You need to convert this bunch of files into a single file containing audio, video as well as subtitles.

We recommend the freeware handbrake for the file conversion: **<http://handbrake.fr>**

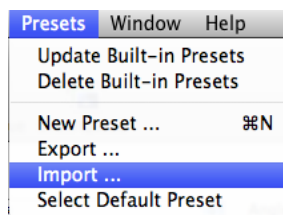
We offer the following pre-set profiles which you can import to handbrake to facilitate the process:

Download handbrake regular encoding profile

Download handbrake deinterlacing encoding profile

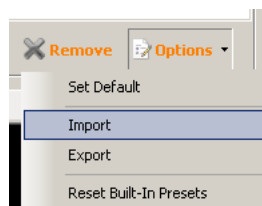
Import pre-set profiles on MAC:

Open handbrake and go to the top menu of HANDBRAKE. Click on PRESETS scroll down to IMPORT and select the downloaded handbrake preset.



Import pre-set profiles on PC:

Click on OPTIONS located in the left lower corner of your handbrake interface. Scroll down to IMPORT and select the downloaded handbrake pre-set.



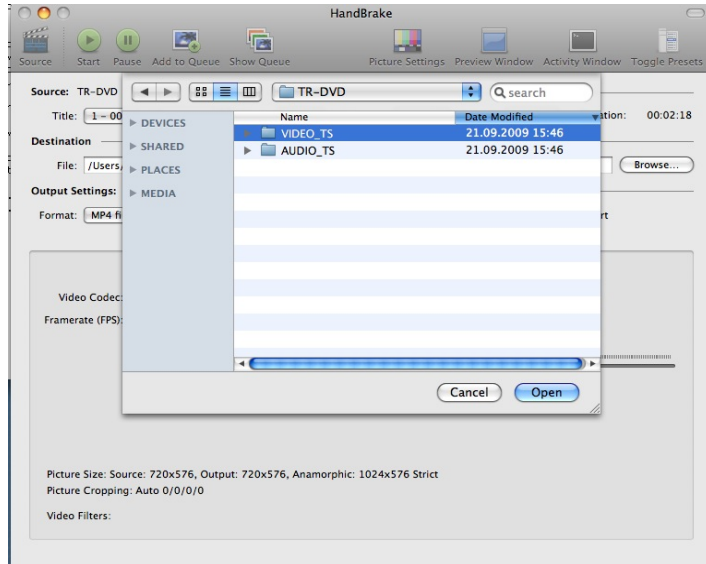
Please click on the following short-cuts for detailed instructions:

**Use Handbrake on Mac**

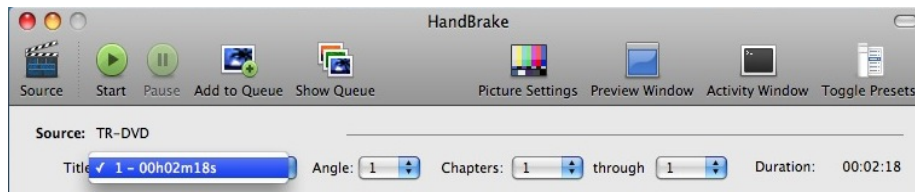
**Use Handbrake on PC**

## Use Handbrake on Mac

Select your VIDEO\_TS folder as source.

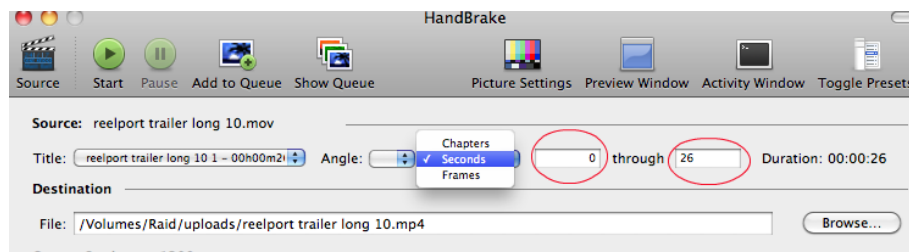


Select the file of your DVD that you want to convert.



Leave the chapter marking as "from 1 to 1" as this takes the whole movie, not only a part marked by these chapter marks.

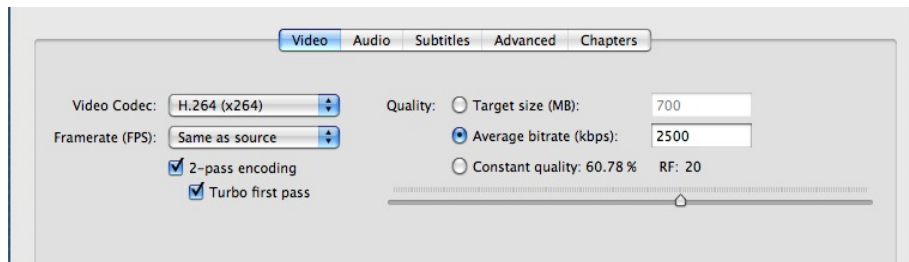
**Trim your video file (prepare your film file without any seconds of blackness or color bar before)**



Select 'Seconds' or 'Frames' in the field 'Chapters'. Use the fields besides to enter the amount of frames or seconds to determine when your film should start/end after encoding. Note: Your ready encoded film will be without that parts.

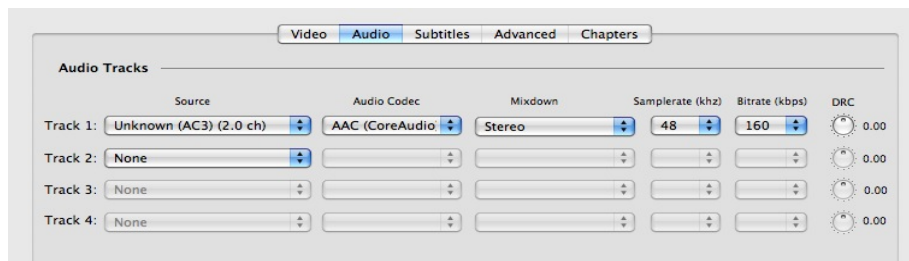
### Use the following settings for VIDEO:

- File Format MP4 file
- Video Codec H.264
- Frame rate: Same as source
- Select '2-pass encoding' and 'Turbo first pass' if available
- Quality: Average Bitrate (kbps) 2500 (maybe you have to lower this rate to 1500 if the final size of your movie exceeds our 8 GB limit)



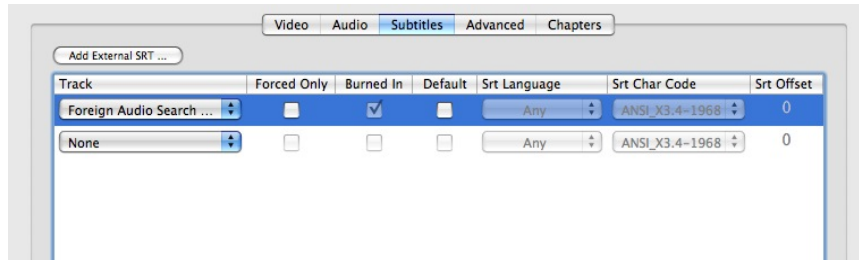
### Use the following settings for AUDIO:

- Select the correct audio track (if your DVD has more than one language track)
- Leave the remaining audio settings as they are pre-selected (AAC, Stereo, 48khz, 160 kbps)



**Use the following settings for SUBTITLES:**

- Select the subtitle track you want to
- Select 'Burned In'

**Use the following settings for ADVANCED:**

- Leave it as preset

**Use the following settings for CHAPTERS:**

- Leave it as preset

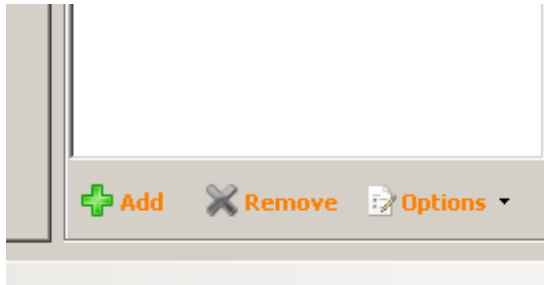
**Use the following settings for PICTURE SETTINGS:**

- If you have an anamorphic movie then set the anamorphic selector to "None" and keep everything else as preset.
- Set CROPPING to CUSTOM and set all sides to '0' if you don't want to hide black bars or any hard coded subtitles beneath the image.
- If you have **interlace footage** select de-interlace 'slow' in the filter options

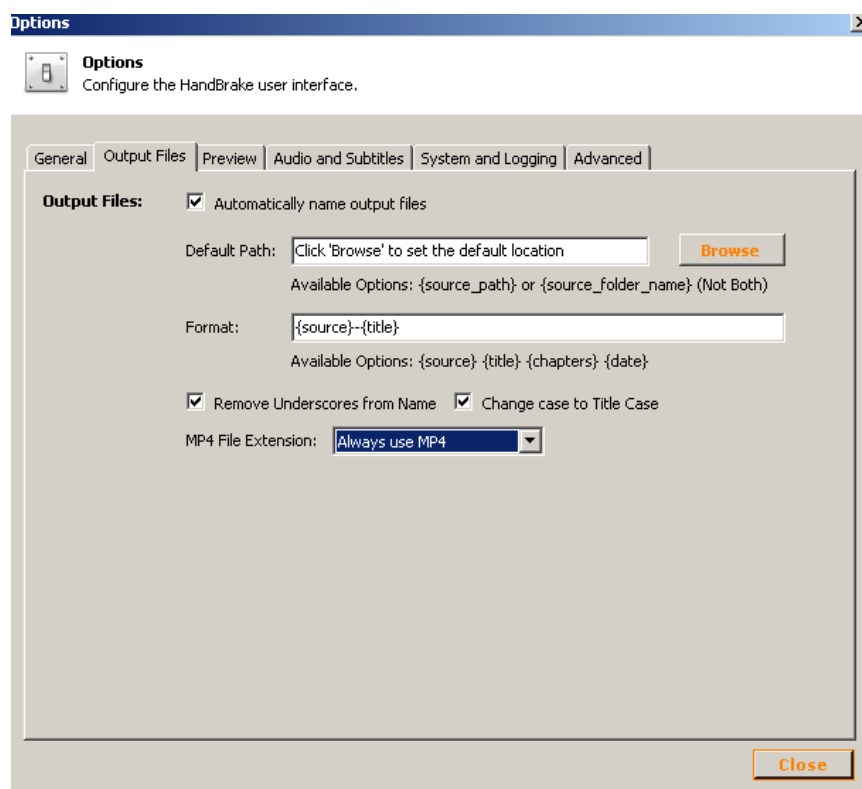
**Click on 'Start' to start the encoding process.**

## Use handbrake on PC

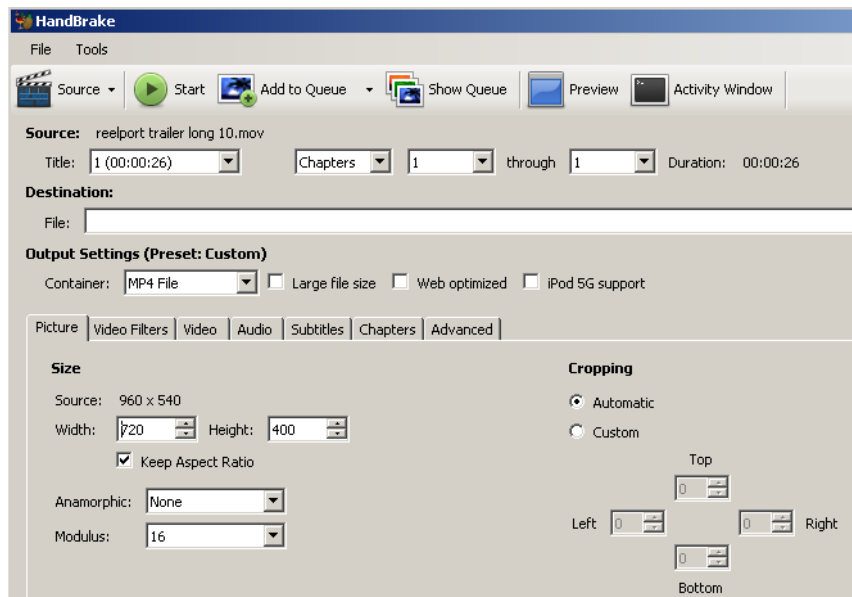
Go to OPTIONS in left lower corner of your handbrake interface. Select MP4 file extension.



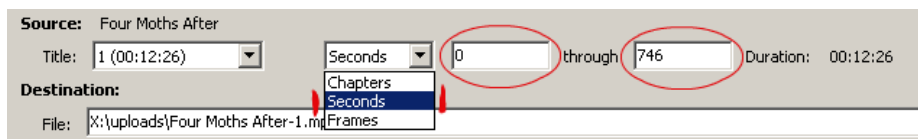
Select MP4 file extension.



Select your source (Video File, Folder or DVD).



**Trim your video file (prepare your film file without any seconds of blackness or color bar before and after)**

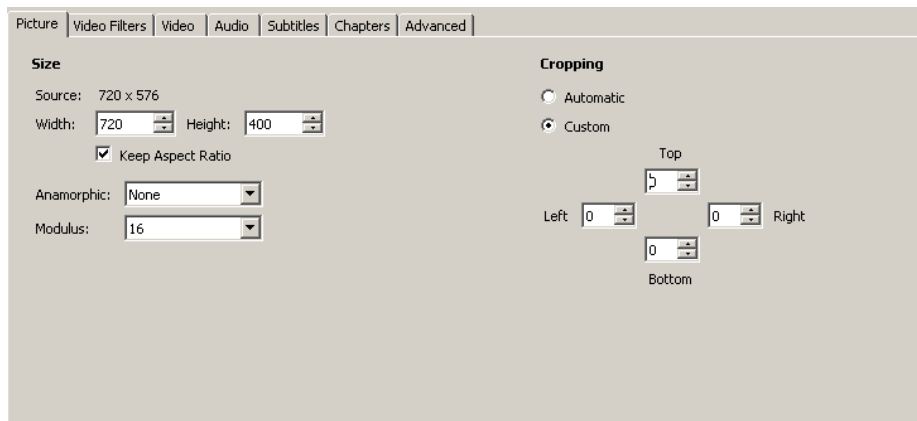


Select 'Seconds' or 'Frames' in the field 'Chapters'. Use the fields besides to enter the amount of frames or seconds to determine when your film should start/end after encoding. Note: Your ready encoded film will be without that parts.

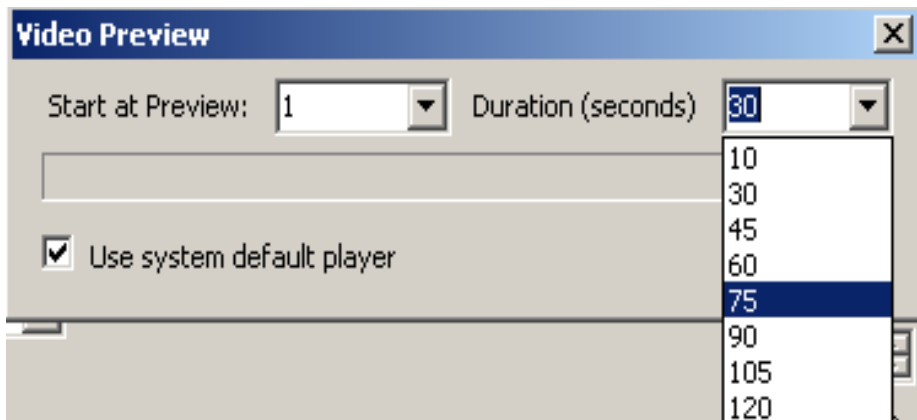


### Use the following settings for PICTURE:

- If you have an anamorphic movie then set the Anamorphic selector to "None" and keep everything else as preset.
- Set CROPPING to CUSTOM and set all sides to '0' if don't want to hide black bars or any hard coded subtitles beneath the image.

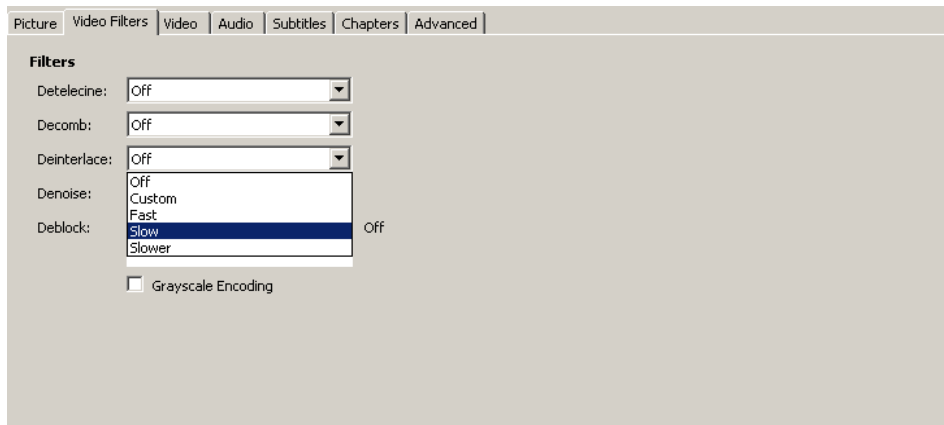


Click on PREVIEW to make sure if your aspect ratio is in right format.



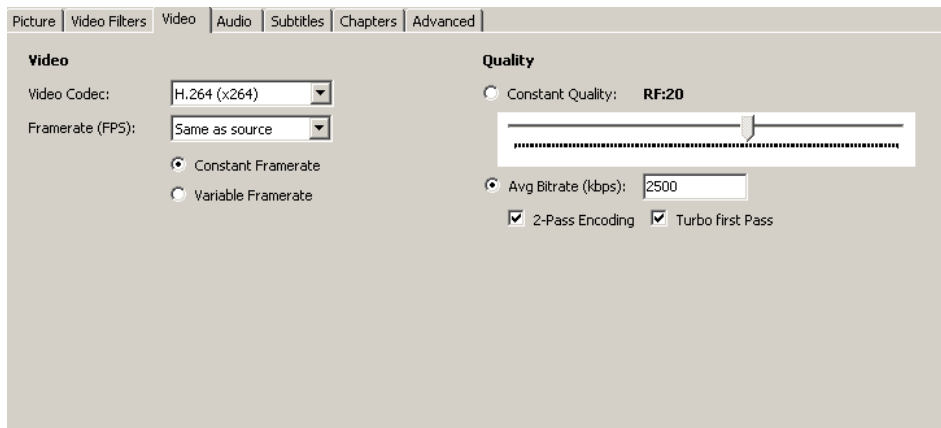
### Use the following settings for VIDEO FILTERS:

If you have interlaced footage select deinterlace 'slow' in the filter options.



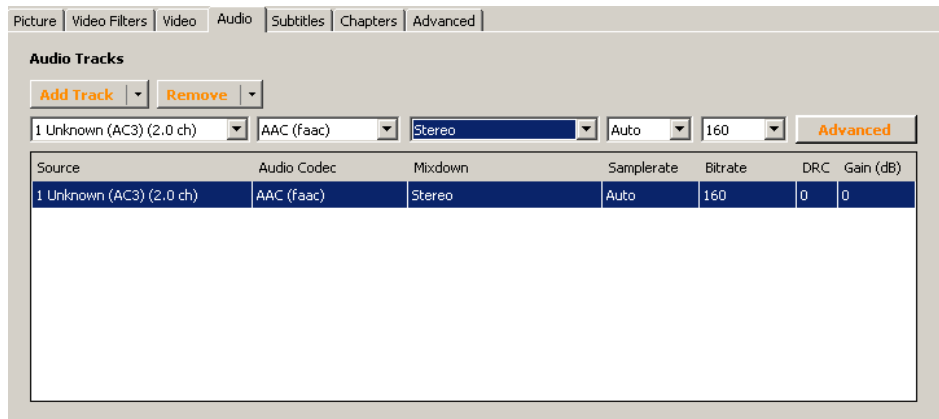
### Use the following settings for VIDEO:

- Video Codec H.264
- Frame rate: Same as source
- Select '2-pass encoding' and 'Turbo first pass' if available
- Quality: Average Bitrate (kbps) 2500 (maybe you have to lower this rate to 1500 if the final size of your movie exceeds our 8 GByte limit)



### Use the following settings for AUDIO:

- Select the correct audio track (if your DVD has more than one language track)
- Leave the remaining audio settings as they are pre selected (AAC, Stereo, 48khz, 160 kbps)



Audio Tracks

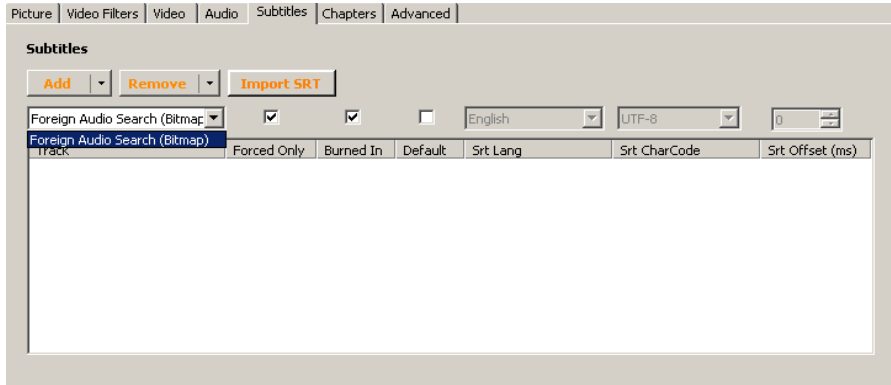
Add Track Remove

1 Unknown (AC3) (2.0 ch) AAC (faac) Stereo Auto 160 Advanced

Source	Audio Codec	Mixdown	Samplerate	Bitrate	DRC	Gain (dB)
1 Unknown (AC3) (2.0 ch)	AAC (faac)	Stereo	Auto	160	0	0

### Use the following settings for SUBTITLES:

- Select the subtitle track you want to show
- Mark 'Burned In'



Subtitles

Add Remove Import SRT

Foreign Audio Search (Bitmap) ☒ ☒ ☐ English UTF-8 0

Track	Forced Only	Burned In	Default	Srt Lang	Srt CharCode	Srt Offset (ms)
Foreign Audio Search (Bitmap)		<input checked="" type="checkbox"/>		English	UTF-8	0

### Use the following settings for ADVANCED:

- Leave it as preset

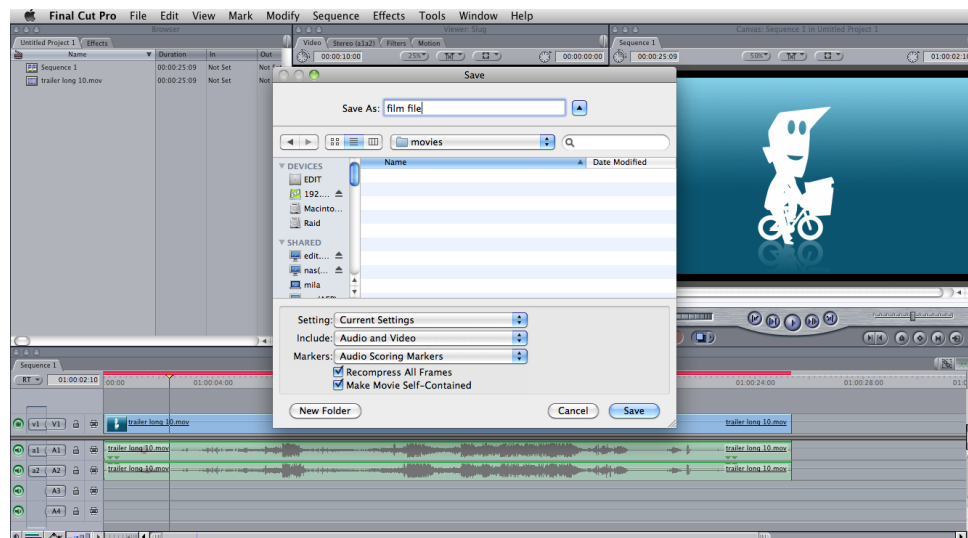
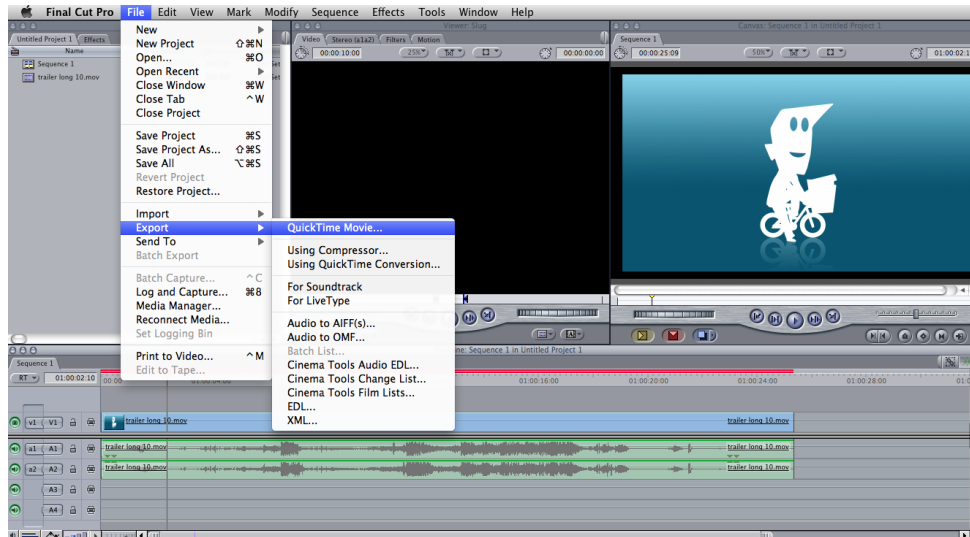
### Use the following settings for CHAPTERS:

- Leave it as preset

Now click on 'Start' to start the encoding process.

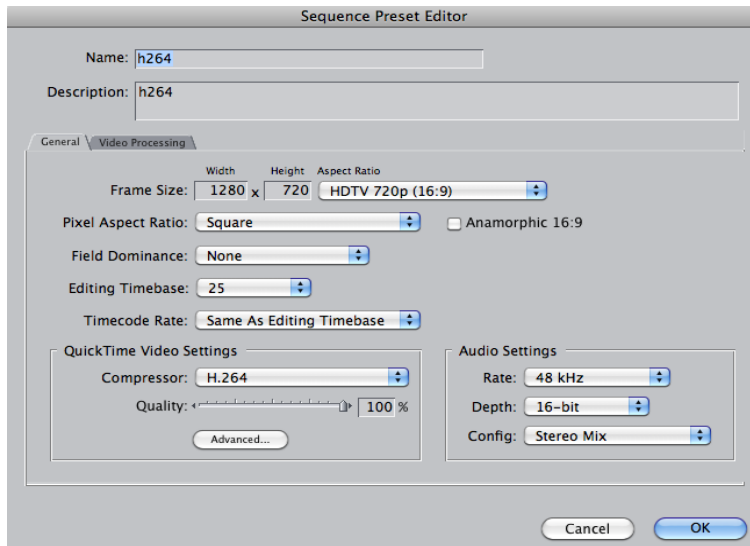
## 2. Export in Final Cut Pro:

To export your movie from Final Cut Pro:

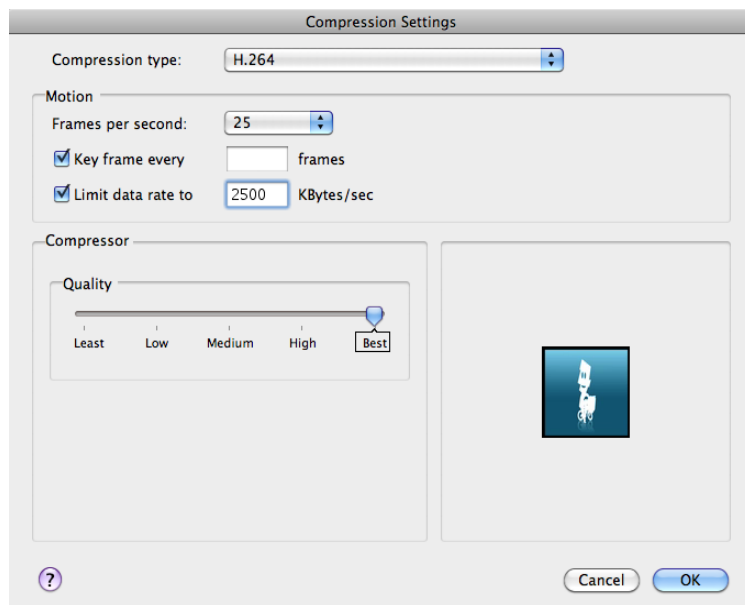


Export your sequence as Quicktime movie with the following (custom) settings:

- Pixel amounts 16:9->1280x720, 4:3->768x576
- Select quadratic pixel aspect
- No fields
- Your native sequence time base (24, 25, or 29,97 according to your project footage)
- Timecode base same as working time base
- Compressor/ Codec: h264



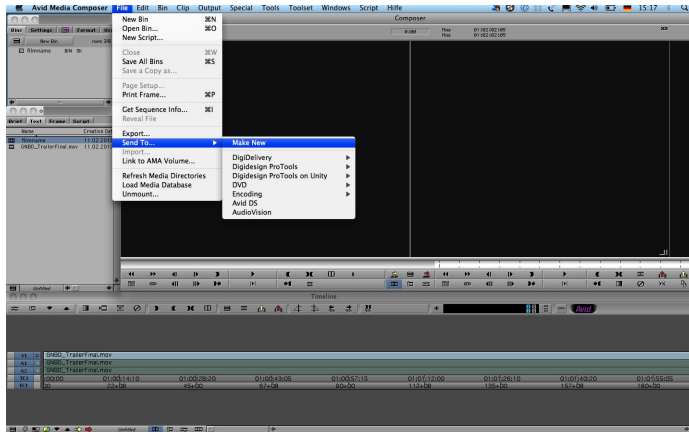
Click on 'advanced' options and set the data rate to max 2.500 KBit / sec.



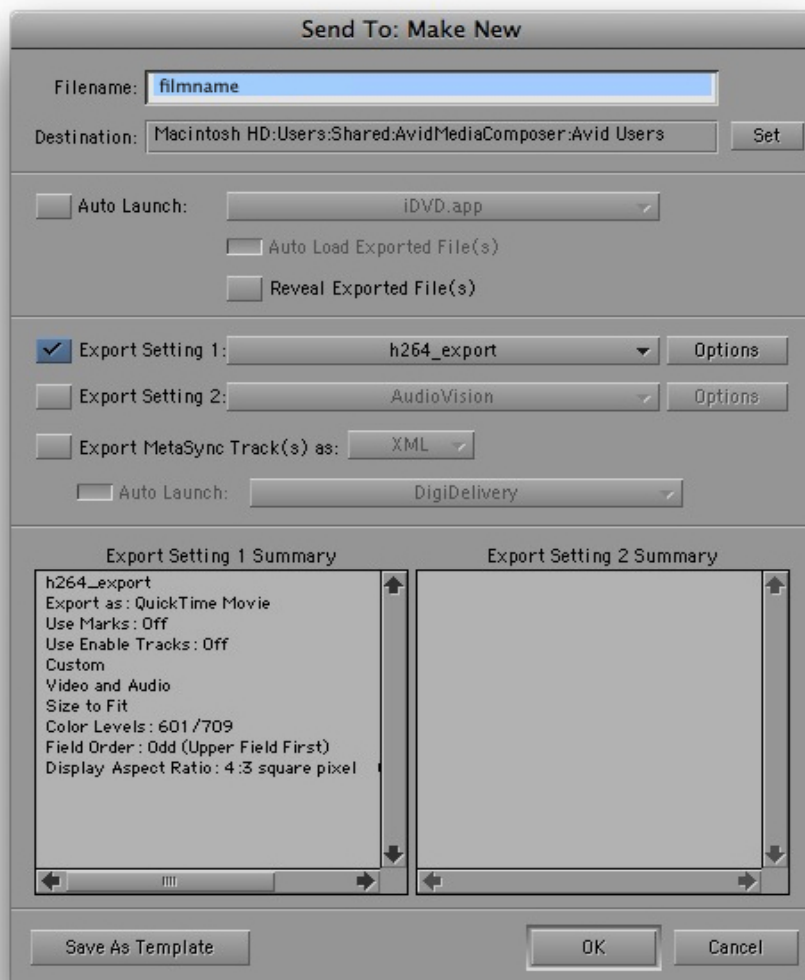
Audio shall be 48 or 44 khz /16 bit stereo.

### 3. Export in AVID

Go to "File/ Send to/ Make new"



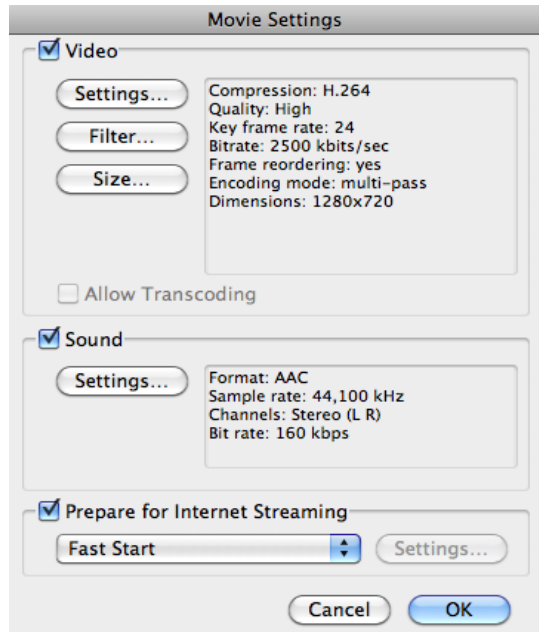
Create/Use „export setting 1“, Quicktime



- Go to „options“ and select:
- Export as Quicktime Movie
- Use "Size to Fit"
- Adapt „Width & Height“ according to your movie settings
- Choose „RGB“ as Color Levels
- Choose Native Dimenstions fort he Display Aspect Ratio



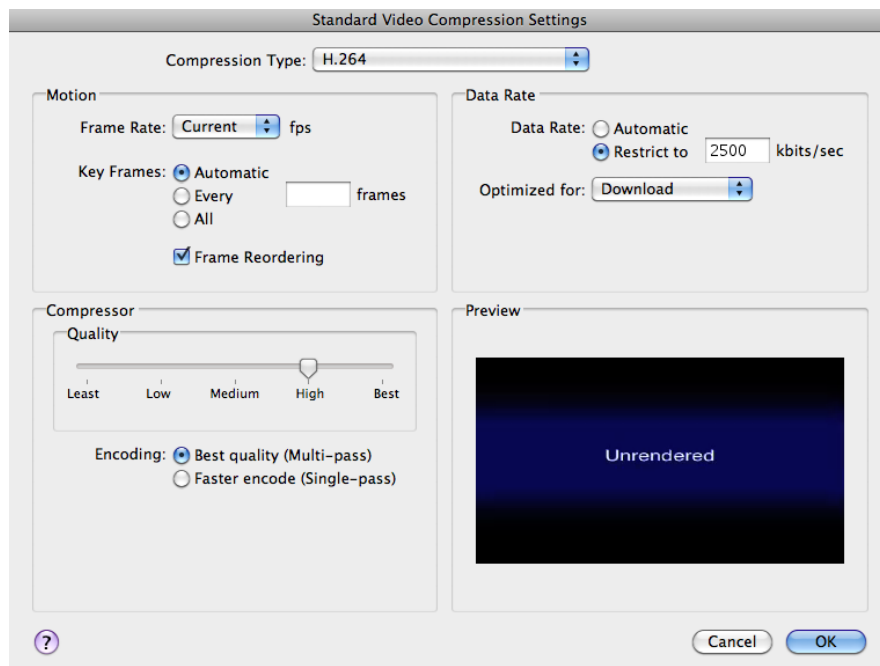
Go to format options - enable video and audio:





Go to video settings:

- Set the codec to H.264
- Choose automatic keyframes
- Set the data rate to max 2.500 Kbit per second
- Choose "Best quality / multi pass encoding"
- Ignore the Quality-slider

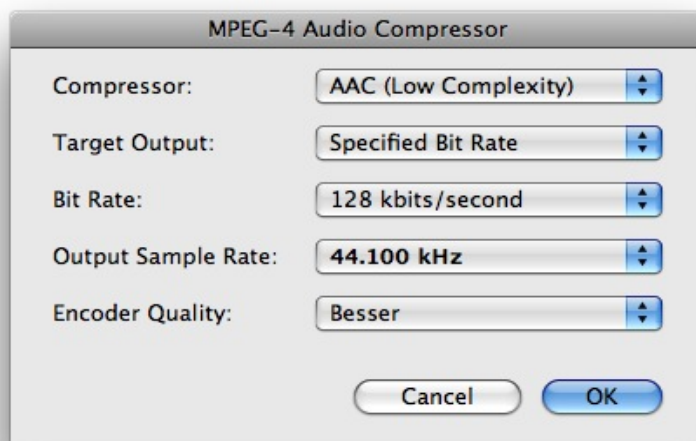


Go to audio settings and set:

- Compression either „none“ or „MPEG-4 Audio“
- Sample rate 44 or 48 khz
- 16 Bit Stereo



- Options for MPEG-4:



- AAC (Low Complexity)
- Target Output: Specified Bit Rate
- Bit Rate: 128 kbits per second
- Output sample rate 44 or 48 khz
- Encoding quality: better

## 4. Further Helpful Tools

### Link List:

Click: **Tutorial to DVDx 4 (Windows / Mac / Linux) freeware**

- Encoding of DVDs and film files
- Special feature: Burn one subtitle track into the film file while encoding

Click: **VOBMerge (only Windows) freeware**

- Merge several vob files together into one vob file

Click: **D-Vision 3 (only Mac) freeware**

- Encoding software
- Deinterlacing, adjust duration and some subtitle settings.