

Steps to create an IMF file

Encode & Mux mxf file

make a directory to store output files

```
mkdir j2k
```

run imfenc

```
imfenc \  
  --in=hd-for-imf.mp4 \  
  --broadcast_profile=5 \  
  --threads=8 \  
  --pixel_fmt=YUV422 \  
  --bitdepth=10 \  
k with Iris though  
  --out=j2k/  
ed
```

input file (.mov, .mp4, what you want)
broadcast profile (1-7)
number of threads (use number of cores or less)
one of YUV444, YUV422 or RGB444
8 and 12 havent been tested yet with Photon. Wor
directory where the output mxf file will be stor
ed

Note: encoding takes HOURS! Run with nohup or in a screen session.

When encoding a mov file, it will in the beginning display an error about a frame it can't decode. You can ignore that

You can always cancel with CTRL-C. It will delete any intermediate files.

Encode & Mux audio file

Extract wav file from

```
ffmpeg \  
  -i hd-for-imf.mp4 \  
  -vn \  
  -r 25 \  
  -ar 48k \  
  -c:a pcm_s24le \  
  -t 00:47:44.96 \  
out.wav
```

drop video
framerate of video, don't know if important
audio rate, 48k and 96k are allowed with IMF
pcm, 24bit, little-endian
time of video stream. [1]

[1] sometimes the audio streams are 00:00:00.xy longer/shorter. This is not allowed and must be fixed. In this case, hd-for-imf.mp4's videostream is 00:47:44.96 long and we force the audio to be that long as well

Mux audio

```
as-02-wrap \  
  out.wav \  
  -r 25/1 \  
  -m ST\ (L,R\ ) \  
  nd 1 right [1]   
  AUD_hd-for-imf-25fps.mxf  # final file
```

*[1] check MCA Channel Assignment for more info.

Make IMP

Now that we have both mxf files. We open imfgui

imfgui

and click in the menu bar **File->New** . It will seem as nothing happens but now we can save the IMP.

File->Save . Navigate to the directory where you want to create the IMP and click on the lower right on

Open . You will be asked to provide a name. Type one and click ok.

Time to add files.

Select **Menubar -> IMF -> Add File** and navigate to your two mxf files. Add both. If you get an error, you can check in the console what went run (where you typed **imfgui**). You should now see both files in the GUI.

Select **Menubar -> IMF -> New composition playlist** . Select framerate of your video.

Drag video file into first lane below.

Drag audio file into second lane below.

They should both have same length.

Save! DONE!

Note: If you added files/CPLs which you don't want: Bad luck. there is no remove facility yet. You can remove tracks from a CPL though by right clicking them in the lane.