**Digital Video Forums** (*http://forum.digital-digest.com/index.php*)
- **TMPGEnc** (*http://forum.digital-digest.com/forumdisplay.php?f=126*)
- - **PAL to NTSC: avi/mpg to DVD conversion using TMPGEnc & DGPulldown**
(*http://forum.digital-digest.com/showthread.php?t=63997*)


LT. Columbo
<div align="right">24 Mar 2006 08:11 PM</div>

**PAL to NTSC: avi/mpg to DVD conversion using TMPGEnc & DGPulldown**

# PAL to NTSC avi/mpg to DVD conversion Using TMPGEnc & DGPulldown

**TMPGEnc Plus avi conversion guide:**
http://forum.digital-digest.com/showthread.php?t=56454
**TMPGEnc Plus**
http://www.pegasys-inc.com/en/product/tda.html
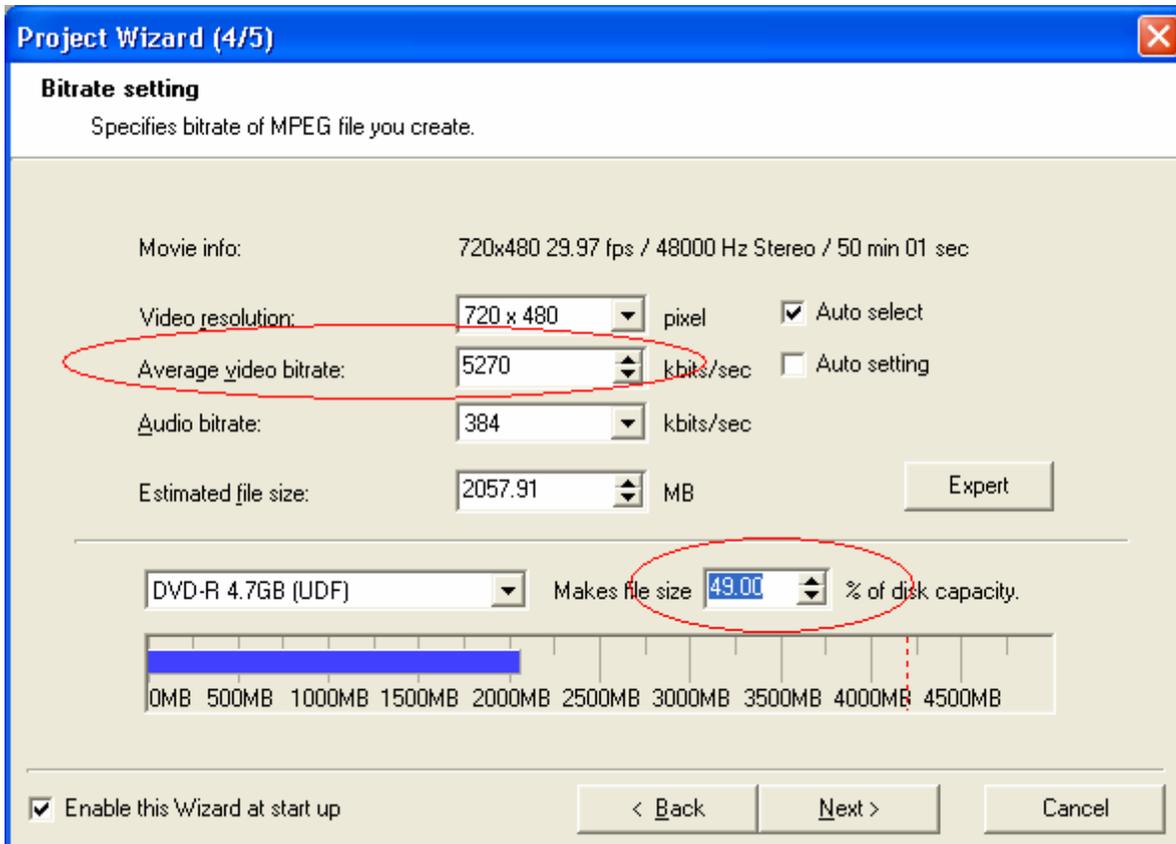**DGPulldown**
http://www.digital-digest.com/software/dgpulldown.html

The following is a simplistic guide to convert 25 Fps avi/mpg files to NTSC. Additional settings may be required such as **"source range", "audio gap correct"**, **filters**, **"custom aspect ratio"** and so on. However this guide will get you on the right track to begin the process.

**STEP 1**

We must calculate the video bitrate. This can be done with a bitrate calculator but is completely uneeded for this project. Load the file you wish to convert using the wizard in TMPGEnc, then click **"next" TWICE**.
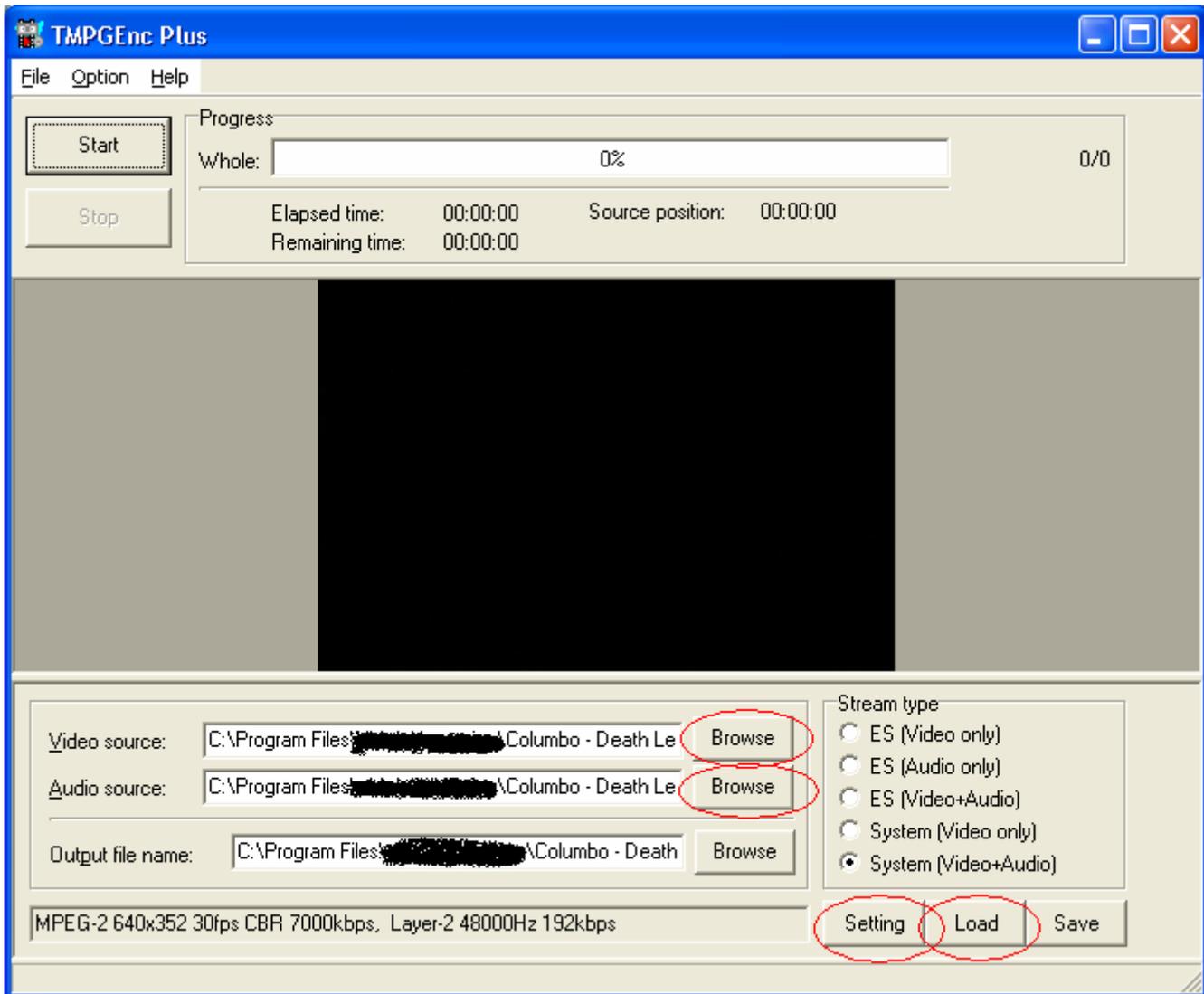This will take you to the bitrate screen. Use your mouse and arrow to adjust the blue bar to fill the desired amount of disc space. If you wish the file to take the whole amount use 98% (save room for menus etc.). If it's a 2-part video, say, file A and file B, make each at 49%. 3 parts, 33% and so on. When you get to the place you want, record the video bitrate value. We will need this later.

**TIP**: The higher the bitrate, the higher the video quality. Try to keep bitrates 4500 kbits/sec and up, no more than 7000. If needed DVD Shrink can be used in the end to compress to fit on your media.
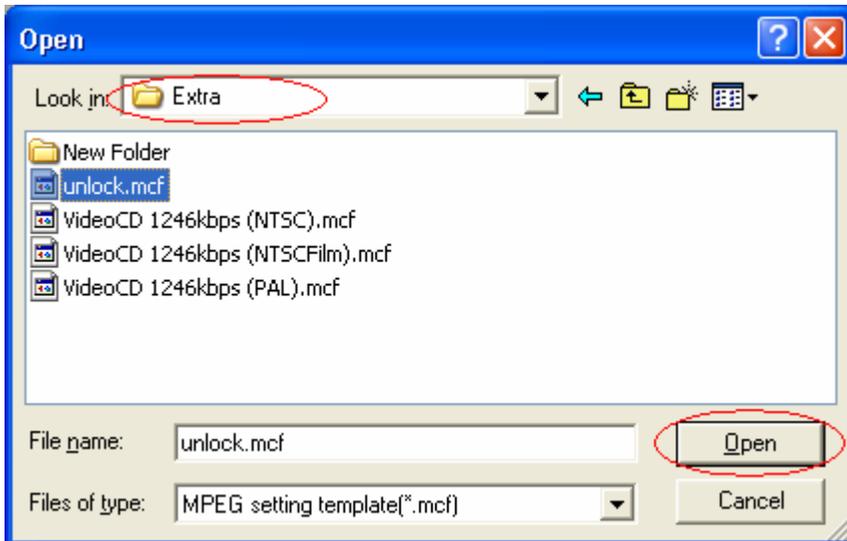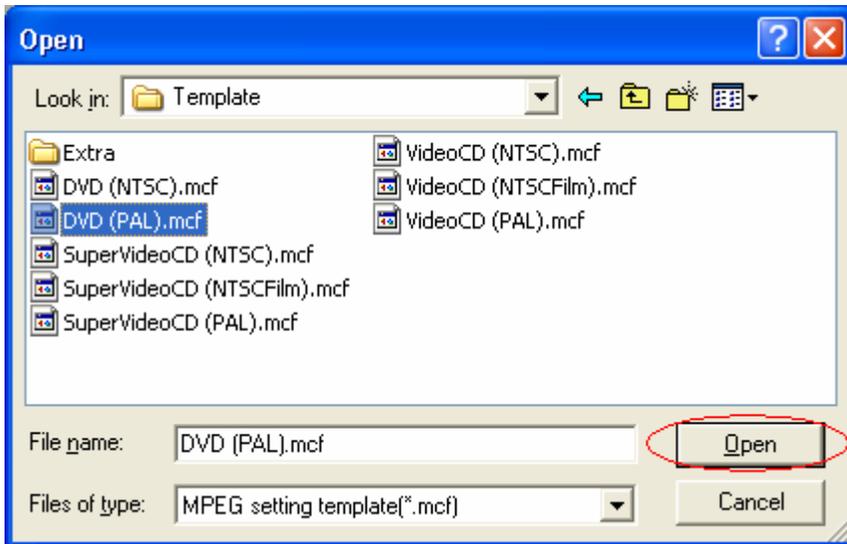
<div align="right">1</div>

**Project Wizard (4/5)**

**Bitrate setting**
Specifies bitrate of MPEG file you create.

Movie info: 720x480 29.97 fps / 48000 Hz Stereo / 50 min 01 sec

Video resolution: 720 x 480 pixel ☑ Auto select

Average video bitrate: 5270 kbits/sec ☐ Auto setting

Audio bitrate: 384 kbits/sec

Estimated file size: 2057.91 MB [Expert]

DVD-R 4.7GB (UDF) Makes file size 49.00 % of disk capacity.

0MB 500MB 1000MB 1500MB 2000MB 2500MB 3000MB 3500MB 4000MB 4500MB

☑ Enable this Wizard at start up [< Back] [Next >] [Cancel]

**STEP 2**

With TMPGEnc open, close the wizard if you have it open. Load the video file under **"video source".** If you will use a different audio source as explained in the TMPGEnc Plus guide such as a **.wav** file, load that under **"audio source".**
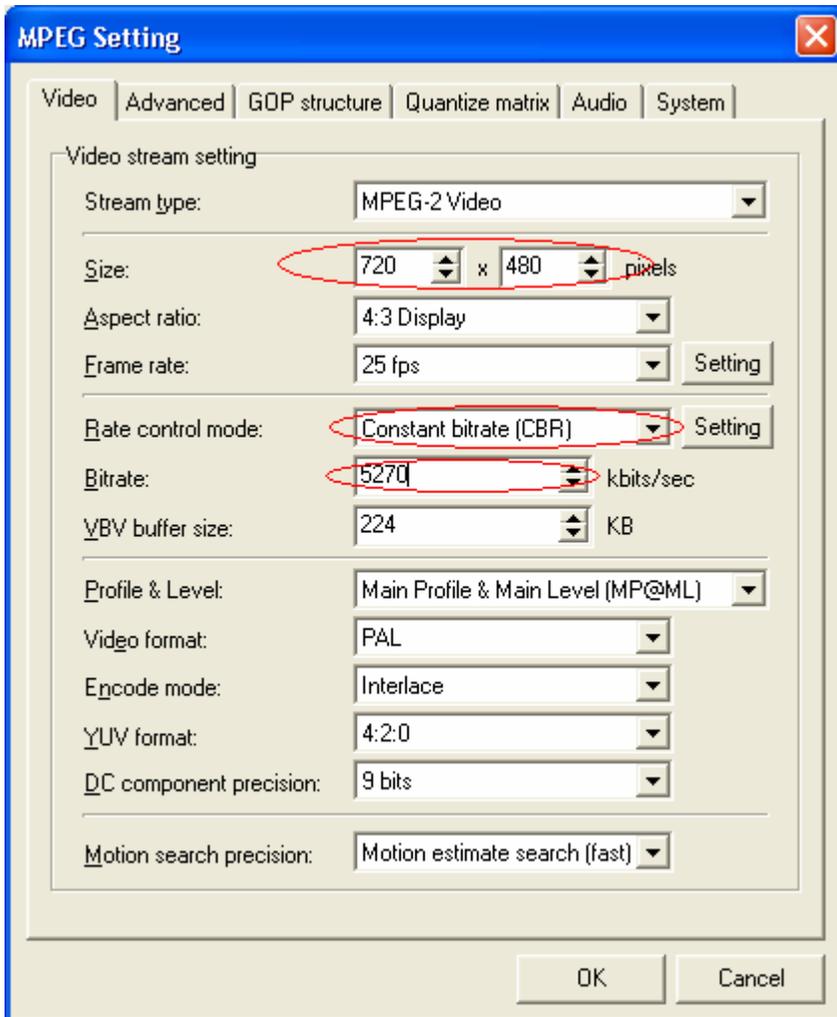
## STEP 3

Click the **"load"** button. Here under TMPGEnc's folder, look under **"template"** and select**"DVD (PAL).mcf".** Click **"open".** Click **"load"** again, go into the folder **"extra"** and select **"unlock.mcf"**, click **"open".**
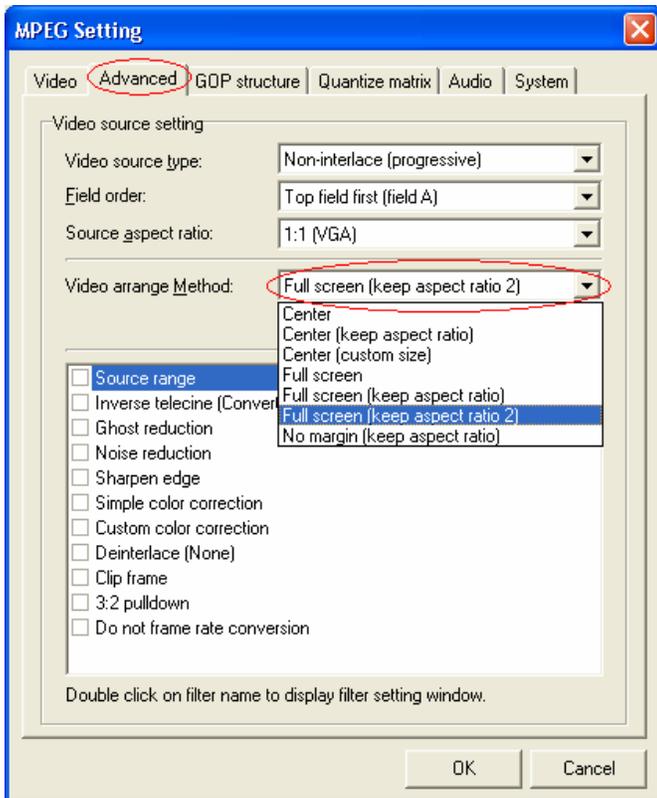
## STEP 4

Click **"setting"** from TMPGEnc's main window. From the **"video"** tab, under **"Rate control mode"** select **CBR** and enter the value you recorded from STEP 1 under **"bitrate".** Under **"size"** , correct from 720x576, to 720x**480**. Under **"motion search precision"** set to **"fast".**
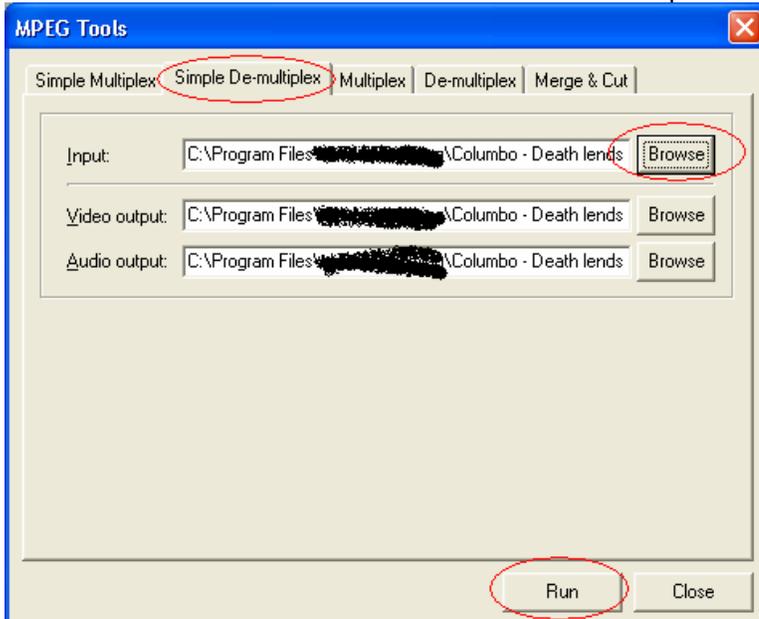
## STEP 5

Click the **"advanced"** tab, and under **"video arrange method"** select **"full screen (keep aspect ratio 2)".** Click ok. Click Start at the top left corner of TMPGEnc's main window and start to encode. When complete, playback the .mpg file you made and see if it looks good and most important; the audio is in proper sync. If so move to the next step.
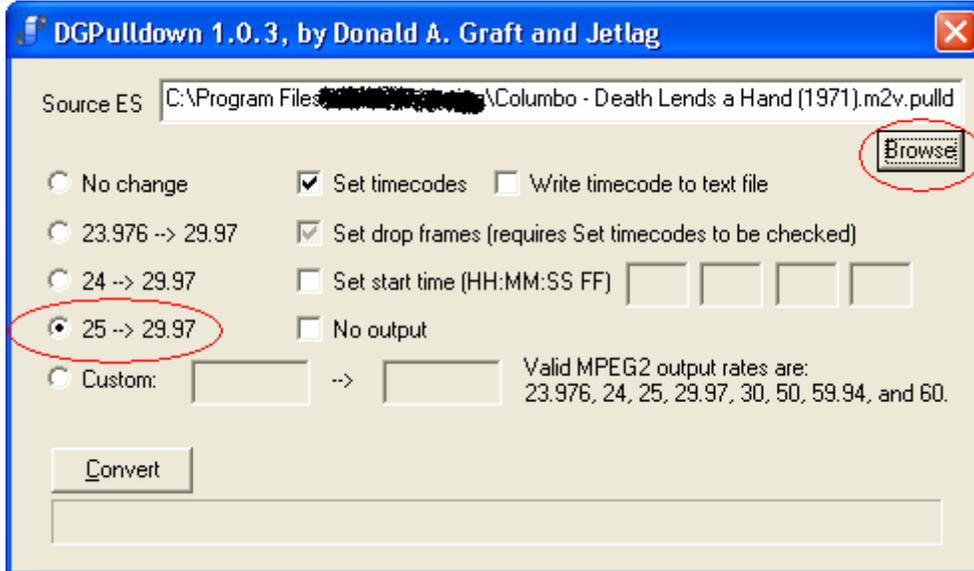
**STEP 6**

Here we need to split the .mpg file we made into separate streams. From TMPGEnc's main window, go to **FILE>MPEG Tools.** Select **"Simple De-Multiplex".** Click **"browse"** and load the .mpg file TMPGEnc created earlier. Click **"Run".** This will create a .mp2 file (the audio) and a .m2v file (the video).



**STEP 7**

Open DGPulldown, click **"browse"** and find the .m2v file TMPGEnc made from the De-Multiplex step. Select **"25--> 29.97".** Click **"convert".** Now DGPulldown will make it's own .m2v file.



## STEP 8

Refer to the TMPGEnc plus/Authoring guide (link above) and use the .m2v file created by DGPulldown as the video source and the .mp2 audio file created by TMPGEnc in the De-Multiplex step as the audio source to create the DVD structure files needed for burning. That's it. If the ORIGINAL encoded file from TMPGEnc has good audio sync, the final product will be 100%--Guaranteed. I hope this guide serves you, and serves you well.

Please post questions/comments in the authoring & editing forum.