

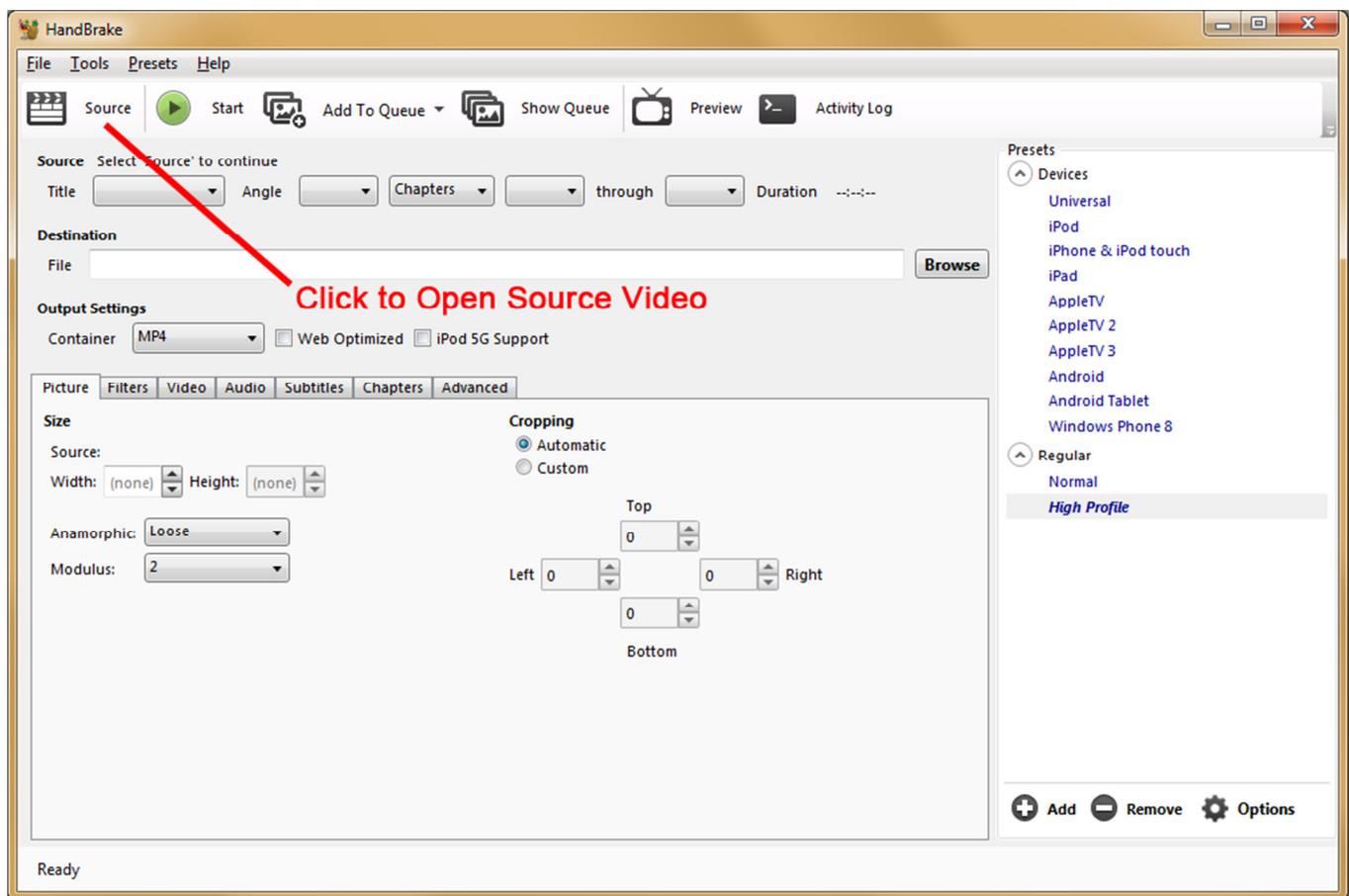
Micca HD Video Encoding Tutorial

Encoding a video in 720p or 1080p high definition format is easier than ever thanks to the availability of free and well working tools like Handbrake. This tutorial will show you how to use this wonderful tool to recode videos into popular MP4 or MKV formats for playback on Micca products that support 720p and 1080p video playback.

1 Download and Install Handbrake

The free Handbrake software is available for a variety of operating systems and can be downloaded from the following URL: <https://handbrake.fr/downloads.php>

After installing, run Handbrake and the following window should be displayed.

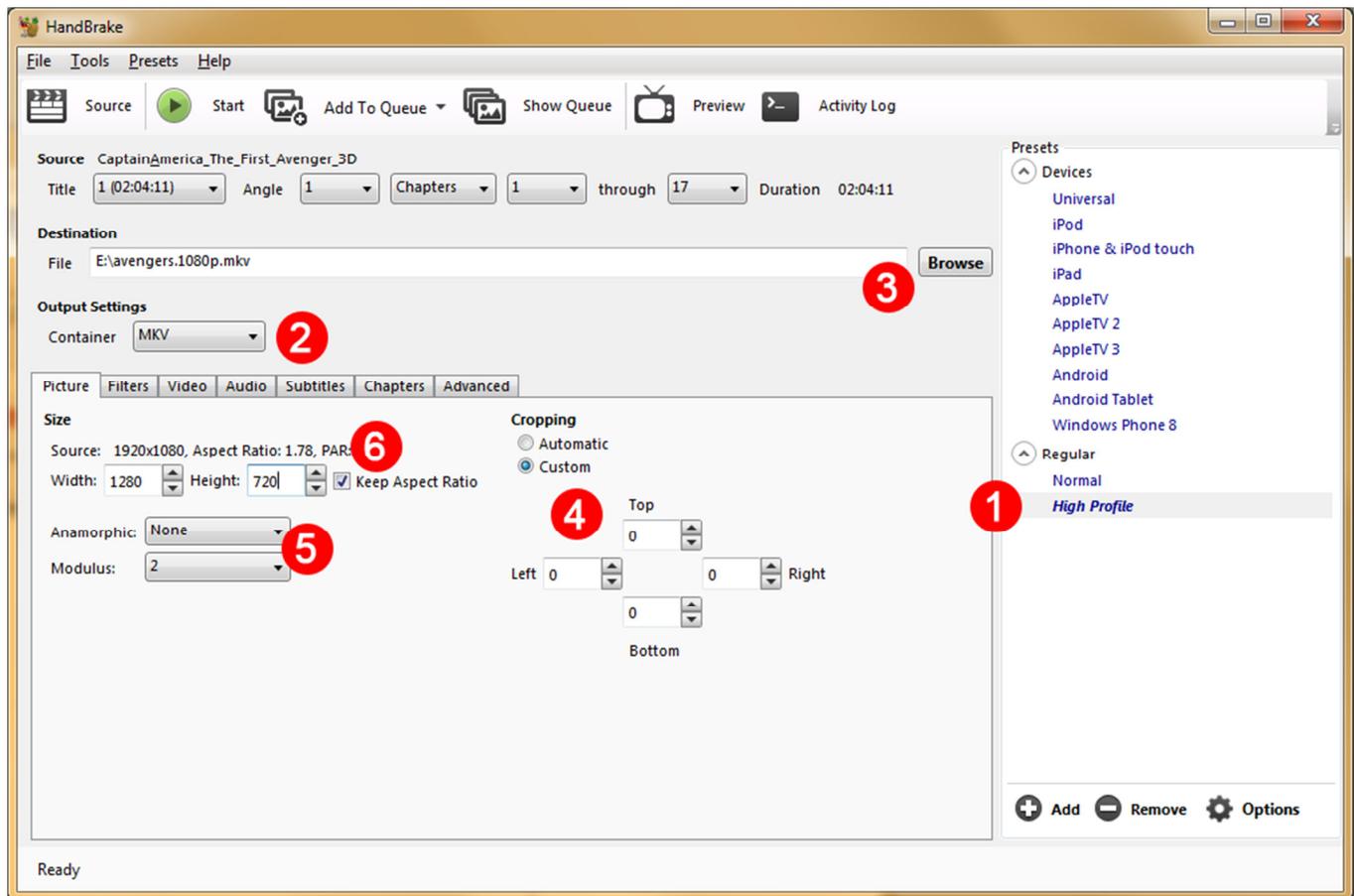


Next, open the source video. You can do this by either clicking on the “Source” icon and selecting the source video file, or you can simply drag and drop the source video file into the Handbrake program window.

2 Basic Settings

Next we'll make some basic settings:

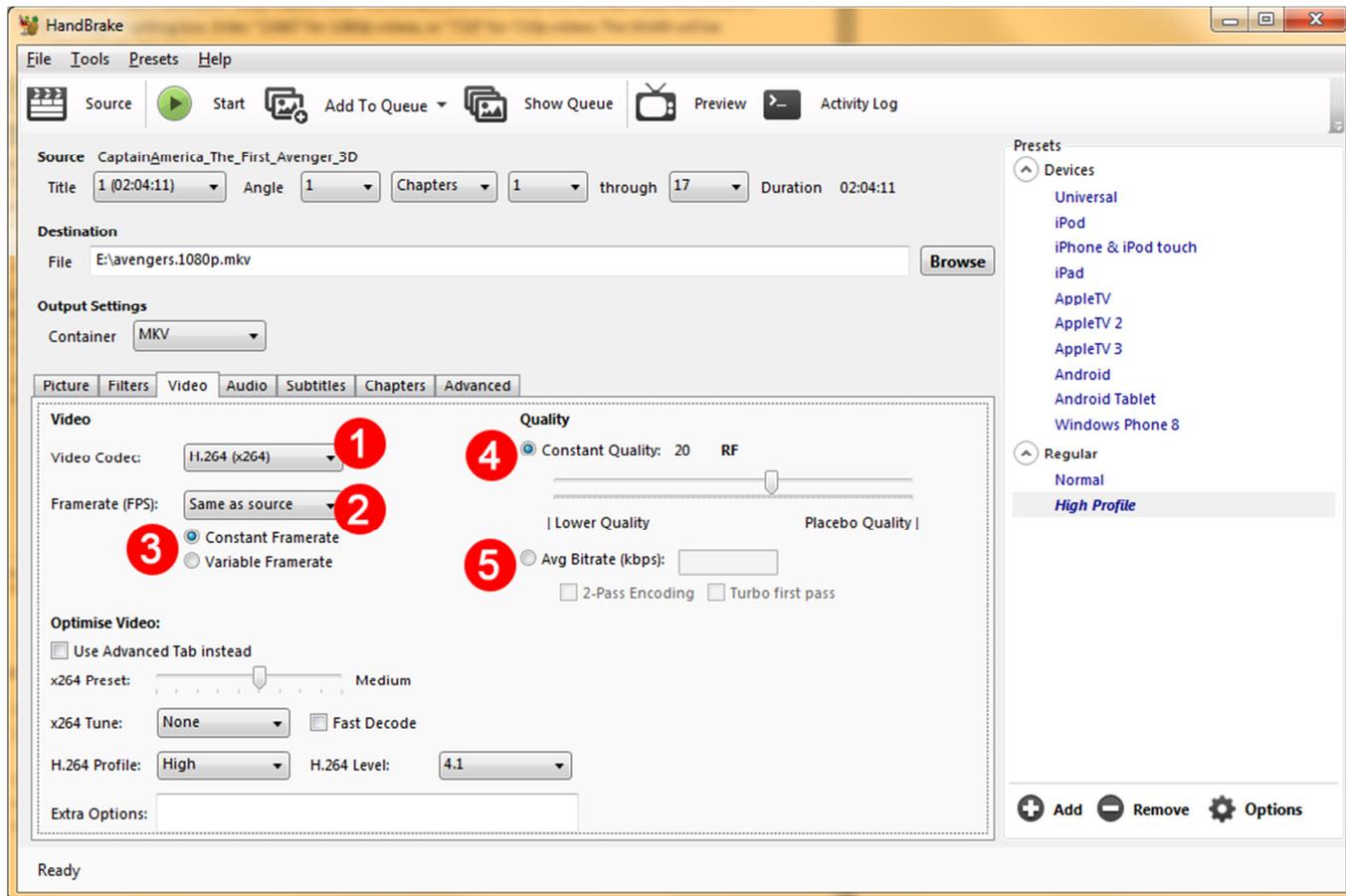
1. In the presets window, select the "High Profile" preset.
2. For the "Container" setting, select MP4 or MKV as desired, MKV is strongly recommended.
3. To set the destination file, click on the "Browse" button, browse to the desired destination folder location, and set the file name. Be sure to use the .mp4 or .mkv file extension as appropriate.
4. For cropping, select "Custom" and set all values to "0" for left, top, right, and bottom.
5. Under "Size", set the Anamorphic setting to "None", Modulus to "2".
6. Also under size, make sure "Keep Aspect Ratio" is checked, and then enter the desired video resolution in the "Height" setting box. Enter "1080" for 1080p videos, or "720" for 720p videos. The Width will be automatically filled in.



3 Video Settings

Click on the Video tab, and perform the following settings:

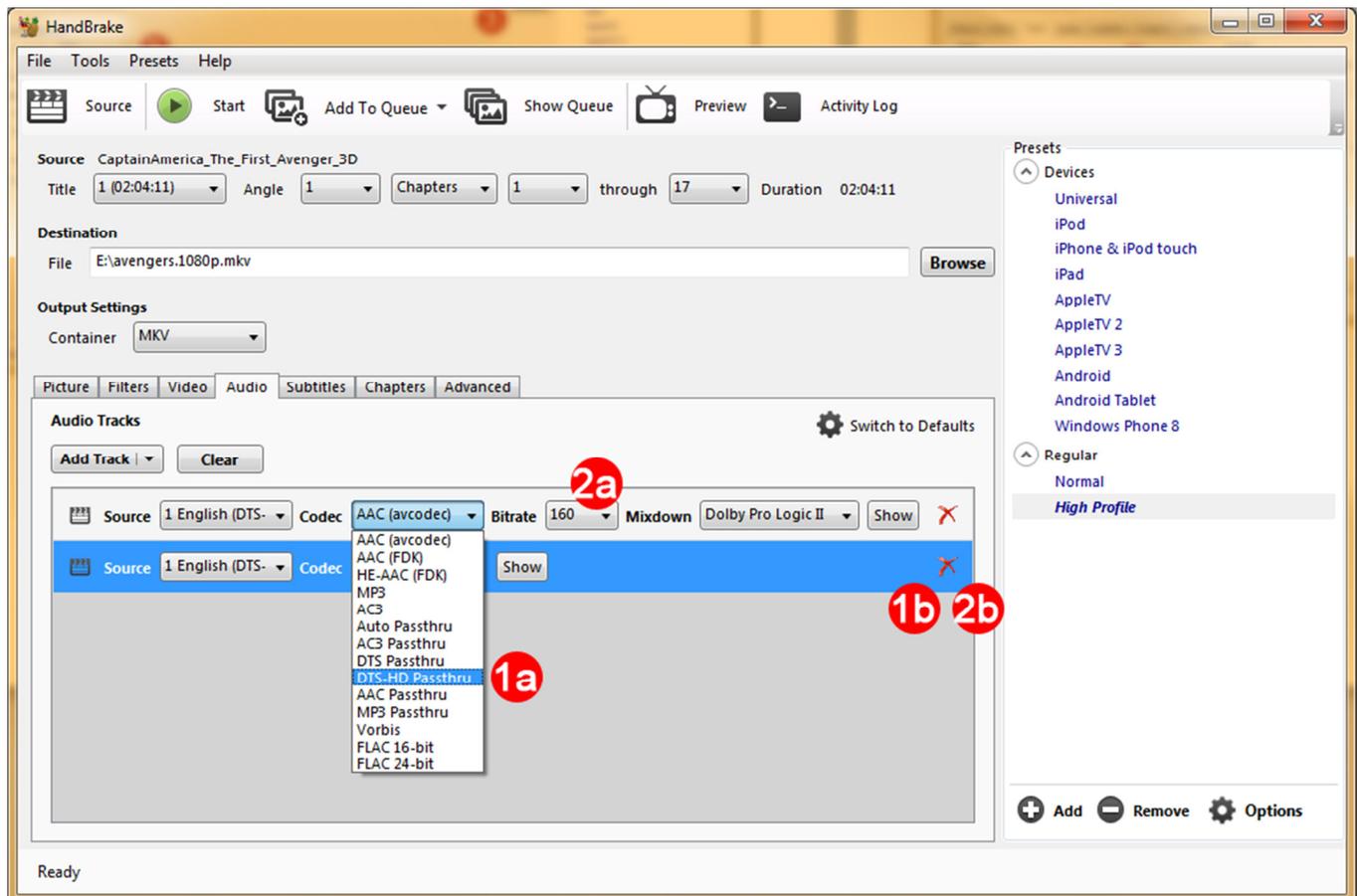
1. Video Codec setting should be set to H.264 (x264) by default, confirm that this is the case.
2. If the source video has a frame rate higher than 30fps, set the Framerate (FPS) to 29.97. Otherwise, leave the setting as “Same as Source”.
3. Select “Constant Framerate”
4. Select “Constant Quality” and leave the slider at 20.
5. If you want predictable bitrates, you can instead choose “Avg Bitrate”. We recommend 8000 kbps for 1080p videos and 5000 kbps for 720p videos.



4 Audio Settings

Click on the Audio tab to access the audio settings. There are two ways to go for audio settings, pick one of the following:

1. You want the resulting file to have multi-channel surround sound, and the source file also has multi-channel surround sound. Follow these directions:
 - a. The source file surround sound format will be listed in the “Source” field. To preserve the surround sound, select the CODEC to match the source. For example, if the source is “English (DTS-HD MA)” as shown in our example, set CODEC to “DTS-HD Passthrough”.
 - b. Handbrake allows you to add additional tracks and may create additional tracks by default. Delete these if not needed.
2. You want the resulting file to only have stereo sound. Follow these directions:
 - a. Leave the first line of the audio tracks alone. Don’t make any settings changes. Change the bitrate to 192 or 256 kbps if you want marginally better sound quality. You can also change the codec to MP3 if you know that this is what you want. For most users, no changes are necessary.
 - b. Delete any additional lines of audio tracks that may have been added by Handbrake.



5 Encode!

Press the green start button and go grab a cup of coffee, or lunch if you are encoding a large video. Actual encoding speed depends on a variety of factors.

6 Other Settings

These other settings are infrequently used and therefore not discussed in detail. However they are briefly discussed here to let you know that they are available:

1. Subtitle Settings. By default Handbrake does not add any subtitles. You can choose to add in subtitles that exists from the source video, or by importing SRT subtitles.
2. Chapter Settings. By default Handbrake will retain any chapter marks that were in the original video. You can also import chapter marks from an external source if available.