


<h1>Procedure for converting movies to VoD ACTIES and ACT800</h1>	NTSPT0013	
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1. Description

1.1. Objective

Procedure to convert videos to the correct format for use in VoD Acties and/or ACT800 – Streaming.

1.2. Material

- Computer
- Software HandBrake

2. Install HandBrake Software

Download the HandBrake Software (<https://handbrake.fr/>) and after completing the download install it;

Observation:

In the case of DVDs with protection, it must be added to the HandBrake installation location (C:\Program Files\Handbrake) to Libdvdcss, following the steps described in:

<https://handbrake.fr/downloads.php>

2.1. File Selection

Choose the correct download file according to the operating system of the machine where the installation will be done.

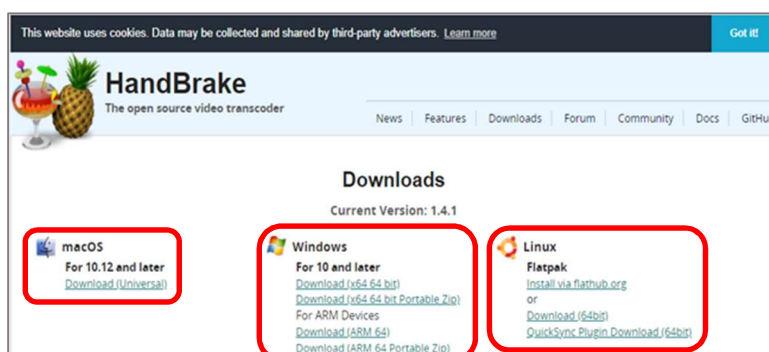


Figure 1 – Download

2.2. Start download

Click on the executable file and start the download.

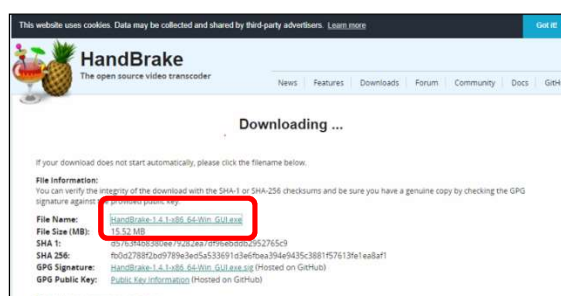


Figure 2 - Executable File

- Click on the **NEXT** icon, in the next two windows;

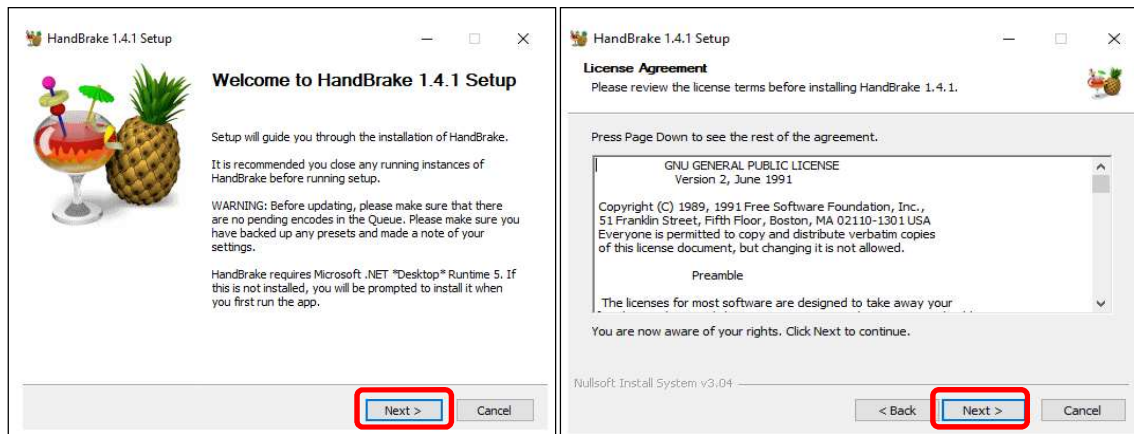


Figure 3 e 4 – Next

- Click on **INSTALL** and then on **FINISH**

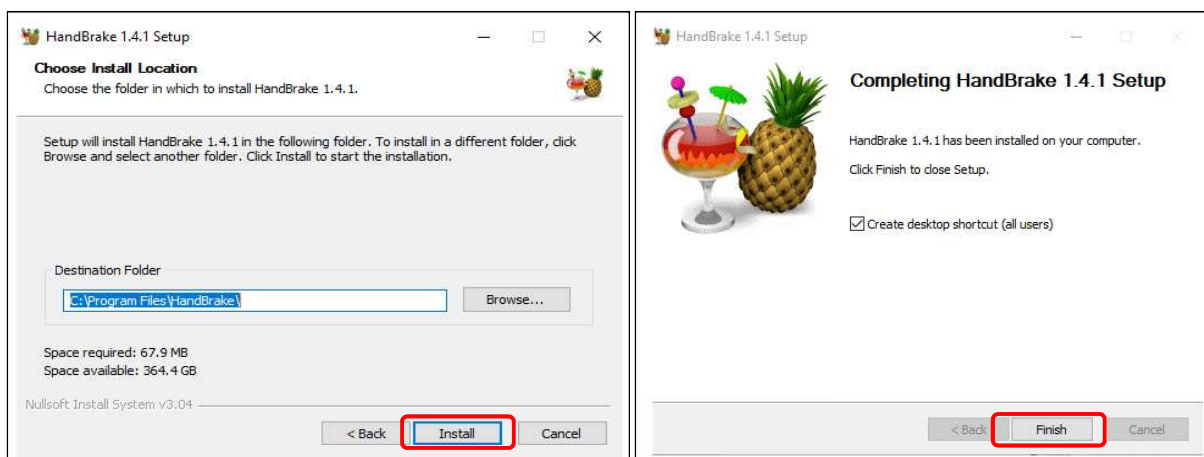


Figure 4 e 6 – Install e Finish

- After installation, on the desktop there will be a shortcut to the HandBrake program. Click on the icon and open the program.



Figura 5 - Icon HandBrake

Note: In some cases an error may occur when opening HandBrake, if this happens, follow the procedure below (Step 3. Drive Installation) to install a drive necessary for the program to open. If HandBrake opens normally, skip this step.

3. Drive Installation

3.1. Installation Link

- Access the link below to start the installation and choose the installation system according to the machine.

https://dotnet.microsoft.com/download/dotnet/5.0/runtime?utm_source=getdotnetcore&utm_medium=referral

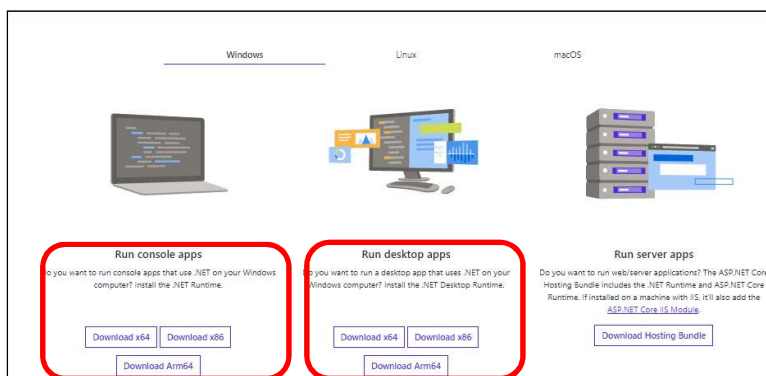


Figure 6 - Operating System

- After choosing the system, you will be directed to another page where you should access the direct link.



Figure 7 - Installation link

- Click on the **INSTALL** icon and Once the installation is complete, click on **CLOSE**, and you are ready to go. You don't need to open/run this drive to run HandBrake.

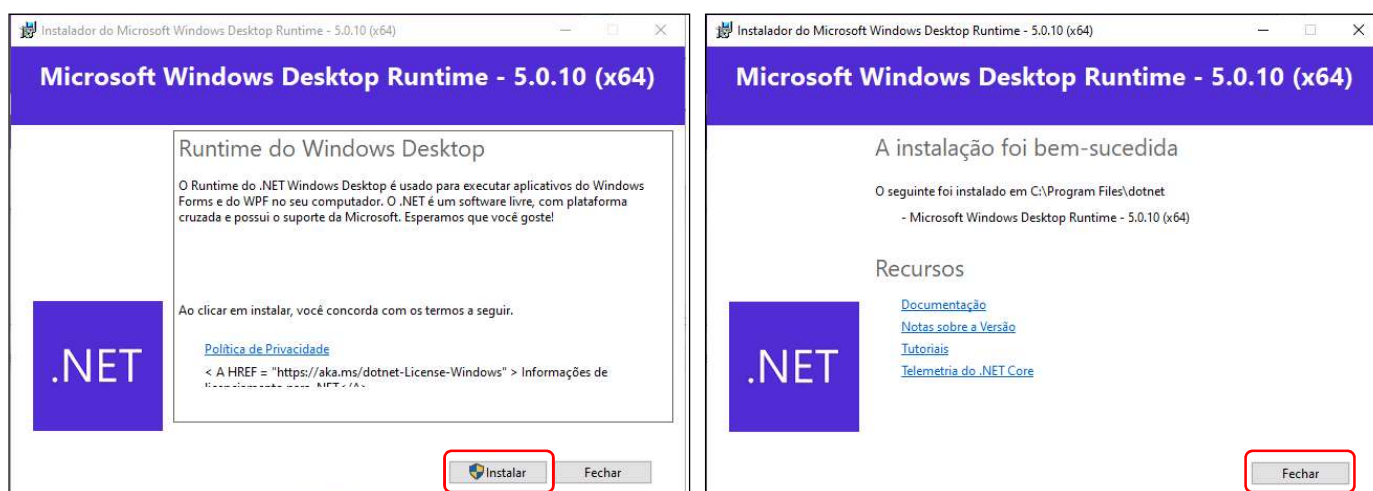


Figure 8 e 11 – Install and Install Drive

4. Converting movie to MP4

4.1. HandBrake

Open Handbreak and choose a file or a folder with one or more files.

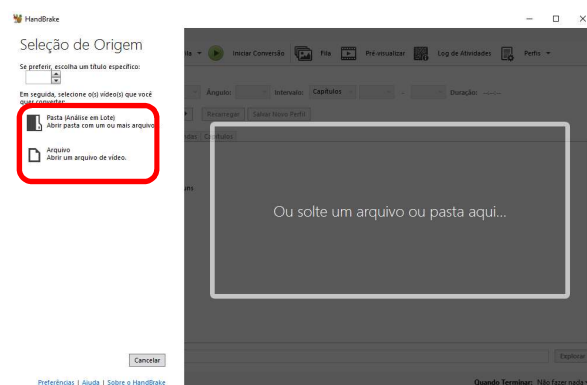


Figure 9- Start – Selecting Files (Movies)

4.2. Abstract

In the **SUMMARY** tab look for the **FORMAT** option, mark in the **MP4** dialog box and mark the **OPTIMIZED FOR WEB** option.

Define a location to save the file:

In the "Save As" field, you can indicate a folder on your computer and enter a name (there must be no spaces in this name, you can replace it with "_") or you can click on the Browse button and search for the folder you want.

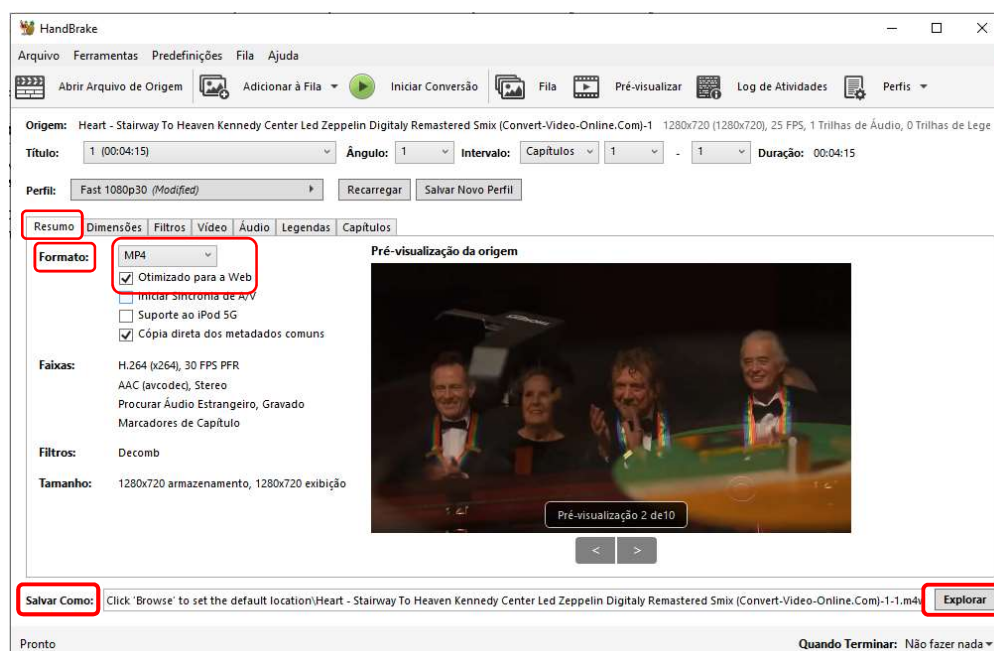


Figure 10 – Abstract

4.3. Dimensions

In the **DIMENSIONS** tab, in the "Resolution Limit" field, select "Custom" and then include the following dimensions **"640 x 480"**.

Note: You should check that the resolution limit cannot be higher than 480, if this happens, adjust it to 480 or let HandBrake set it to a value lower than 640 (to be compatible with mobile phone - 640x480 screen resolution).

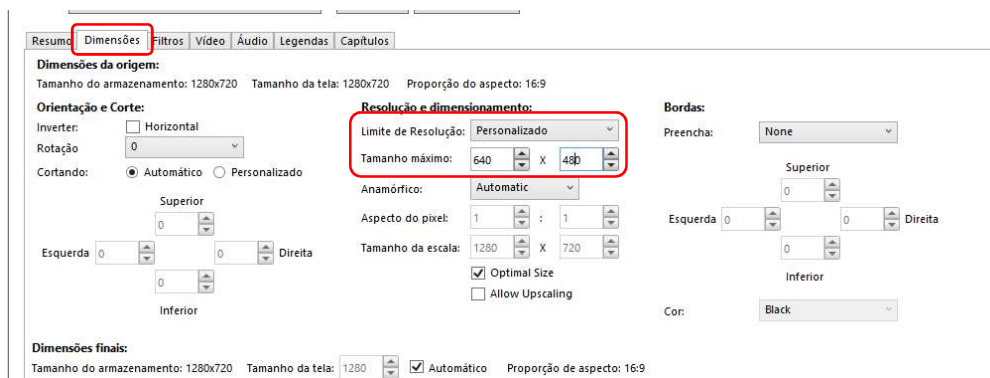


Figure 11- Resolution

4.4. Filters

In the FILTERS tab we don't need to change any option.

4.5. Video

In the **VIDEO** tab, the following options must be selected:

- Video Encoder: H264 (X264)
- Frame Rate (FPS): Same as source
- Check Option: **Variable Frame Rate**
- Encoder Options has 4 settings locations:
 - **Converter preset:** Drag the bar to the right to the **"Very Slow"**
 - Converter setting: **None**
 - Convert profile: **Main**
 - Converter Level: **3.1**

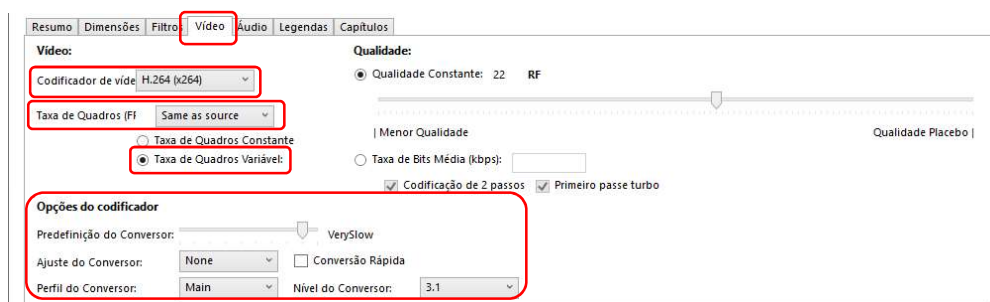


Figure 12- Video

4.6. Audio

In the **Audio** tab the following options must be checked.

- Next to **Codec** click on the dialog box and select **AAC(avcodec)**
- Next to **Bitrate** click on the dialog and select **96 (kbps)**
- Next to **Mix** click on the dialog and select **Stereo**

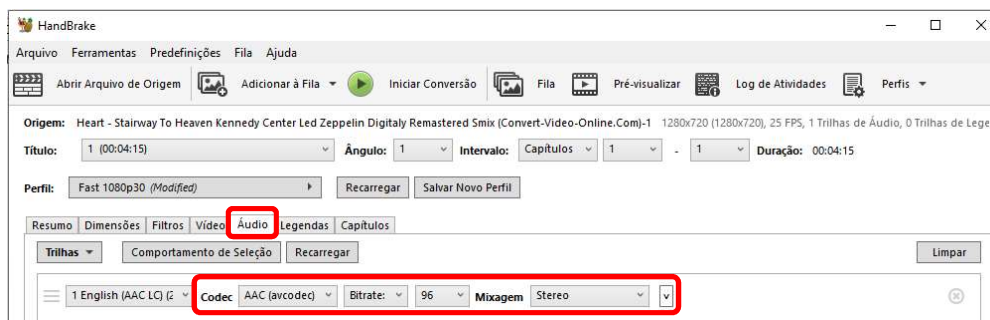


Figure 13- Audio

4.7. Subtitles

In the **SUBTITLES** Tab you choose or search for the necessary subtitles.

Click on the **SELECTION BEHAVIOR** dialog box to select the subtitle language you want to insert into the video file or click on the **TRACKS** button to search and import a subtitle (downloaded from the internet for example).

After choosing the languages, to make the selection of subtitles, click on Save.

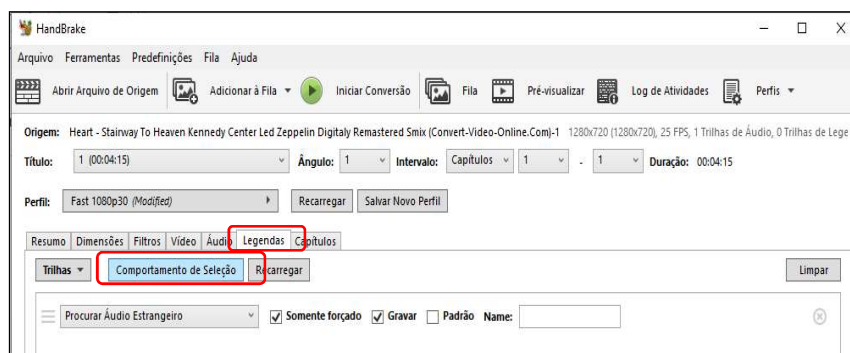


Figure 14- Subtitles

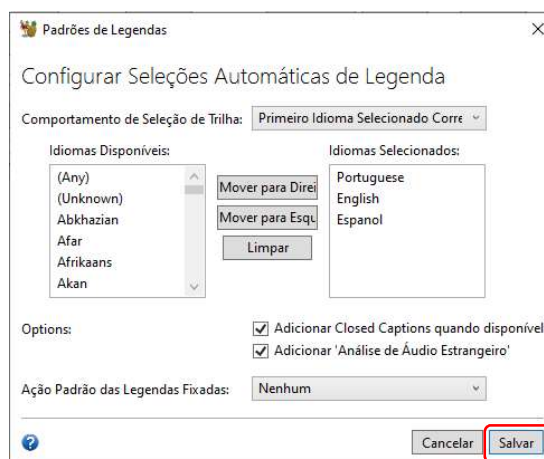


Figure 15 - Languages

4.8. Start Conversion

After all parameters have been defined, click on the **"Start Conversion"** button and wait for the conversion (the file will be made available in the defined/selected folder, according to step 4.2).

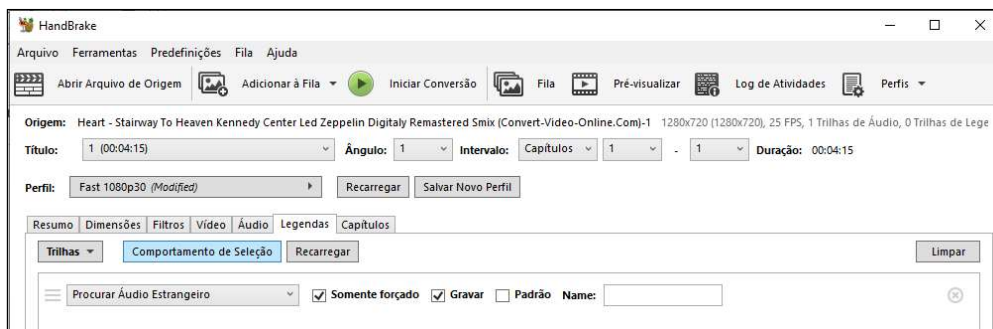


Figure 19 – Start Conversion

Observation: the conversion process is usually time-consuming, with the time ranging from 1x to 2x the total time of the movie's duration.

RESULT

Movie converted to MP4, 640x480 format, compatible with VoD ACTIES and ACT800.

After the conversion has been carried out, continue the process through technical note NT114, from item 3.1; to generate the content (movies, music, map, etc.).

CORRECTIVE ACTION

5. Revision History

Revisions History				
Revision	Date	Changes	elaboration	Approval
00	08/03/2015	Document creation	Luís F. Cristofoli	Cleber Dambroz
01	10/06/2021	Document Update	Deives Borges	Rodrigo Escobar