

<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.

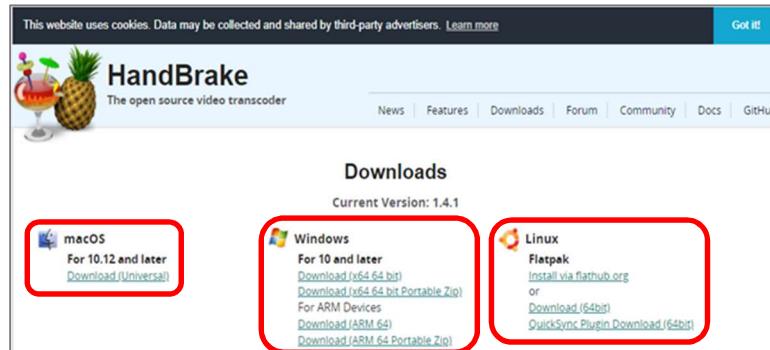


Figure 1 – Download

## 2.2. Start download

Click on the executable file and start the download.

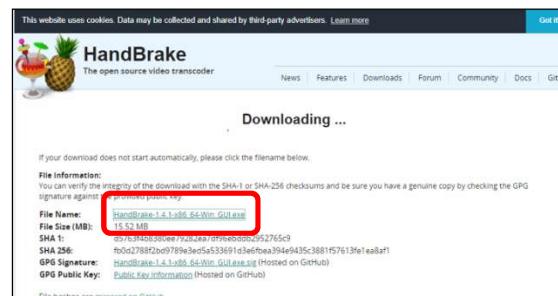


Figure 2 - Executable File

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

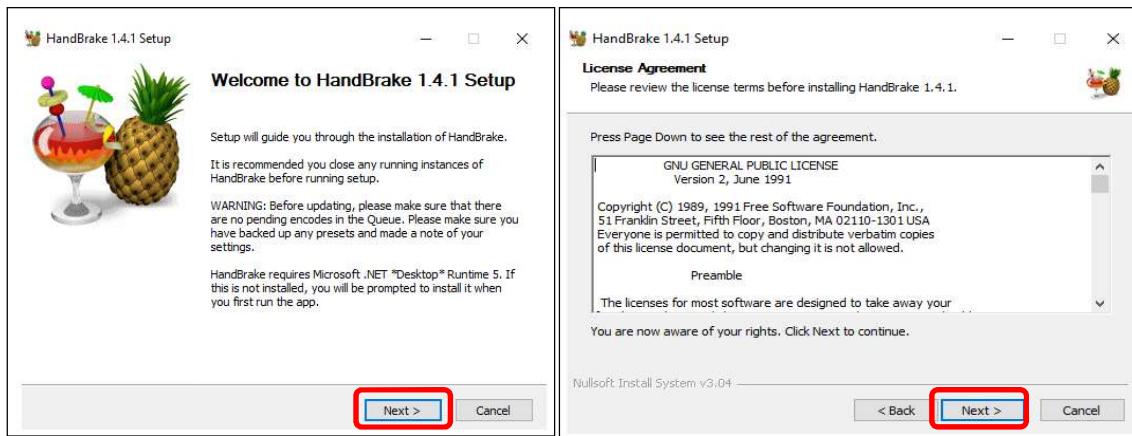


Figure 3 e 4 – Next

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

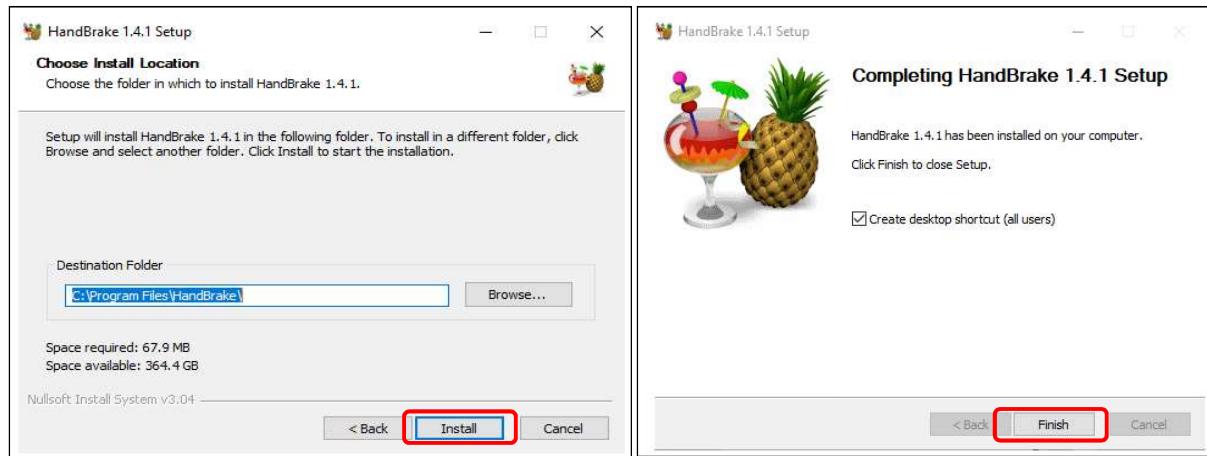


Figure 4 e 6 – Install e Finish

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

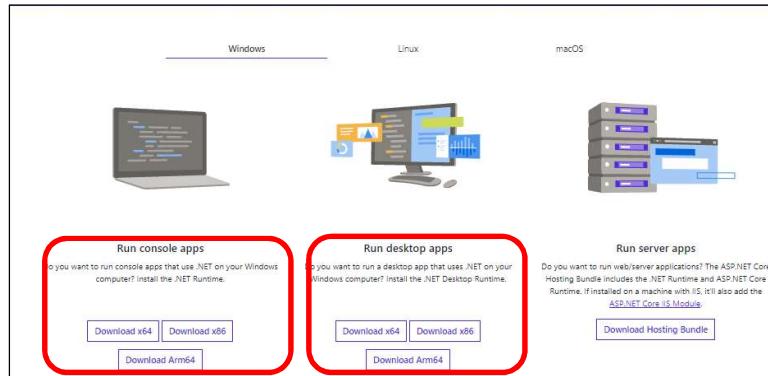


Figure 6 - Operating System

- 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.

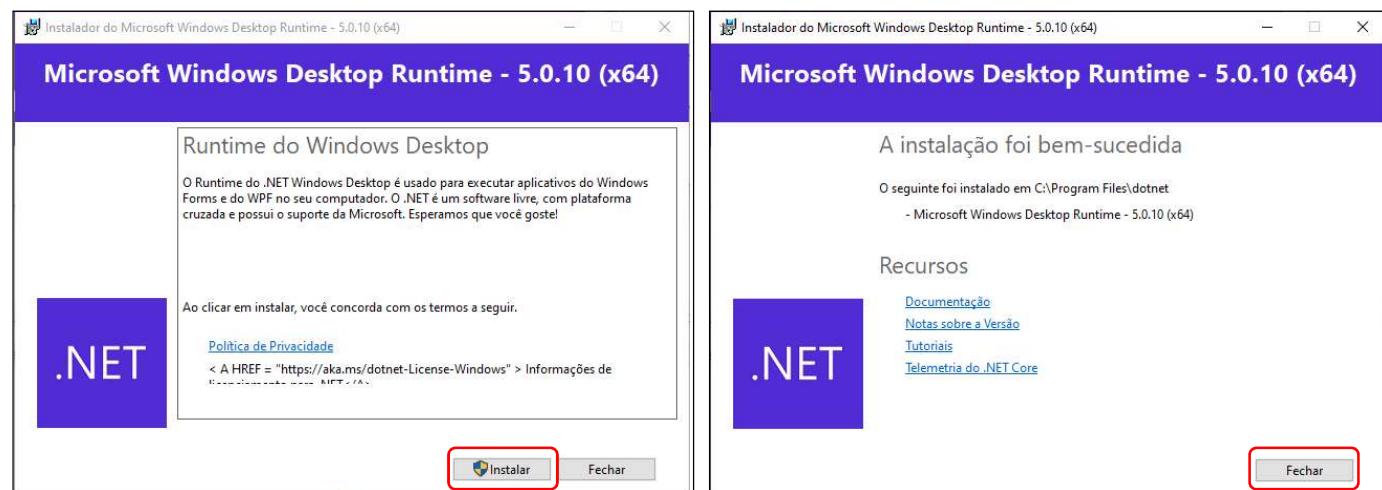


Figure 8 e 11 – Install and Install Drive

## 4. Converting movie to MP4

### 4.1. HandBrake

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

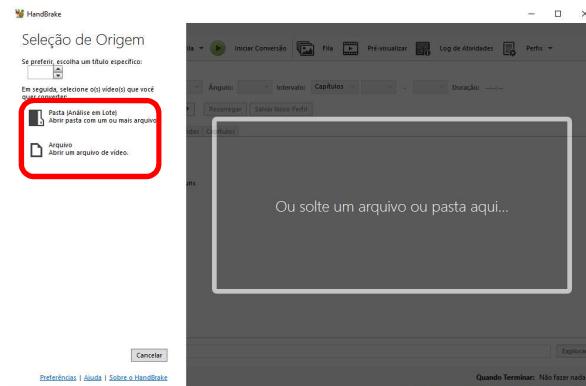


Figure 9- Start – Selecting Files (Movies)

### 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.

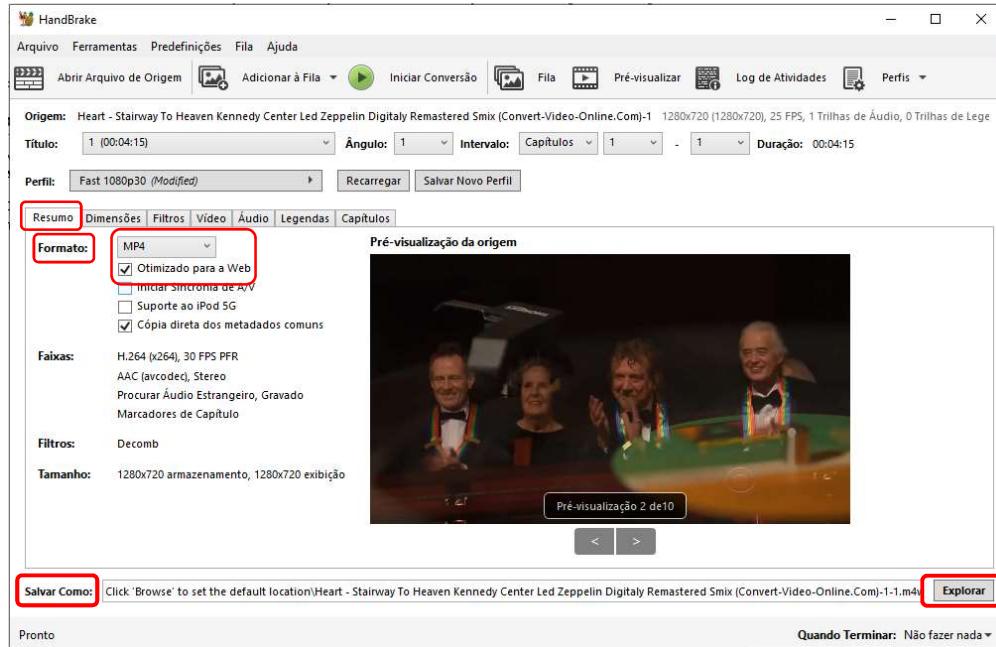


Figure 10 – Abstract

#### 4.3. Dimensions

In the **DIMENSÕES** 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**

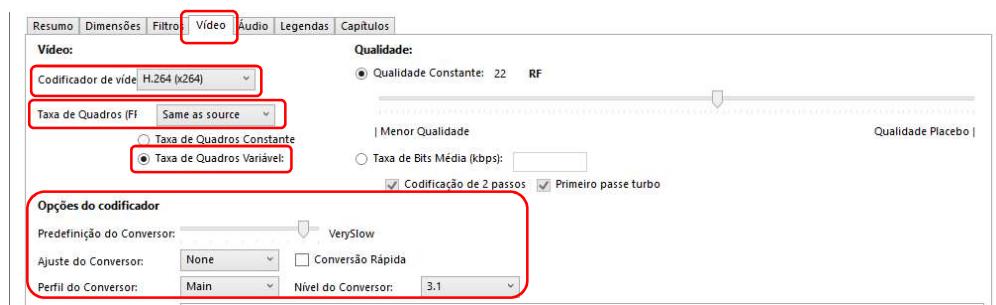


Figure 12- Video

## 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**

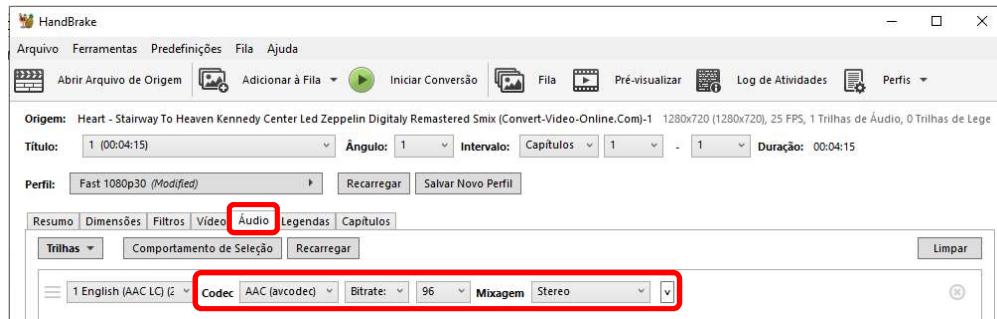


Figure 13- Audio

## 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.

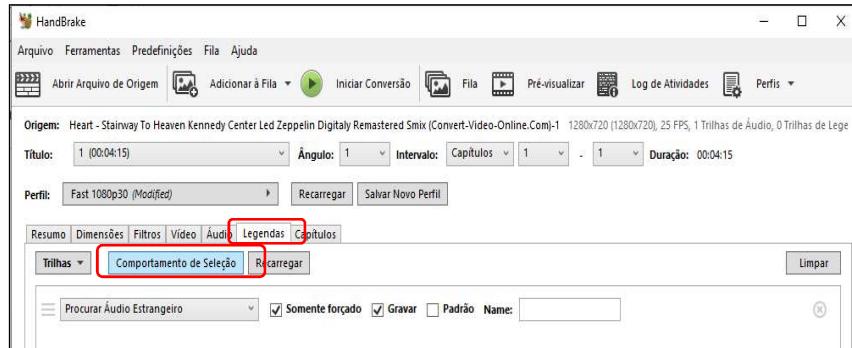


Figure 14- Subtitles



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).

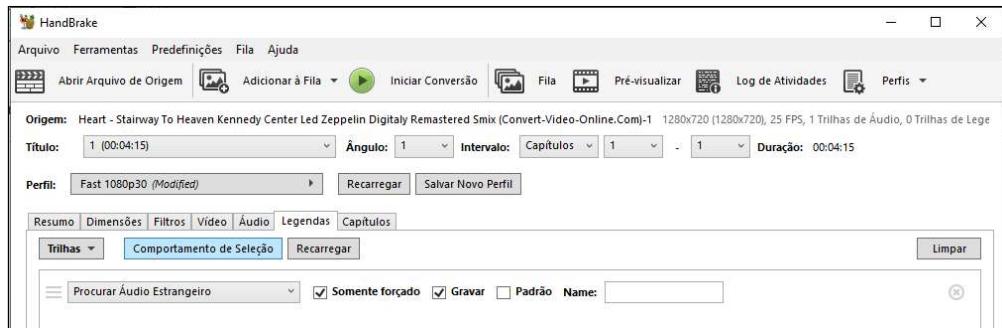


Figure 19 – Start Conversion

**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