

CzTVVideo and Configuration update Instructions

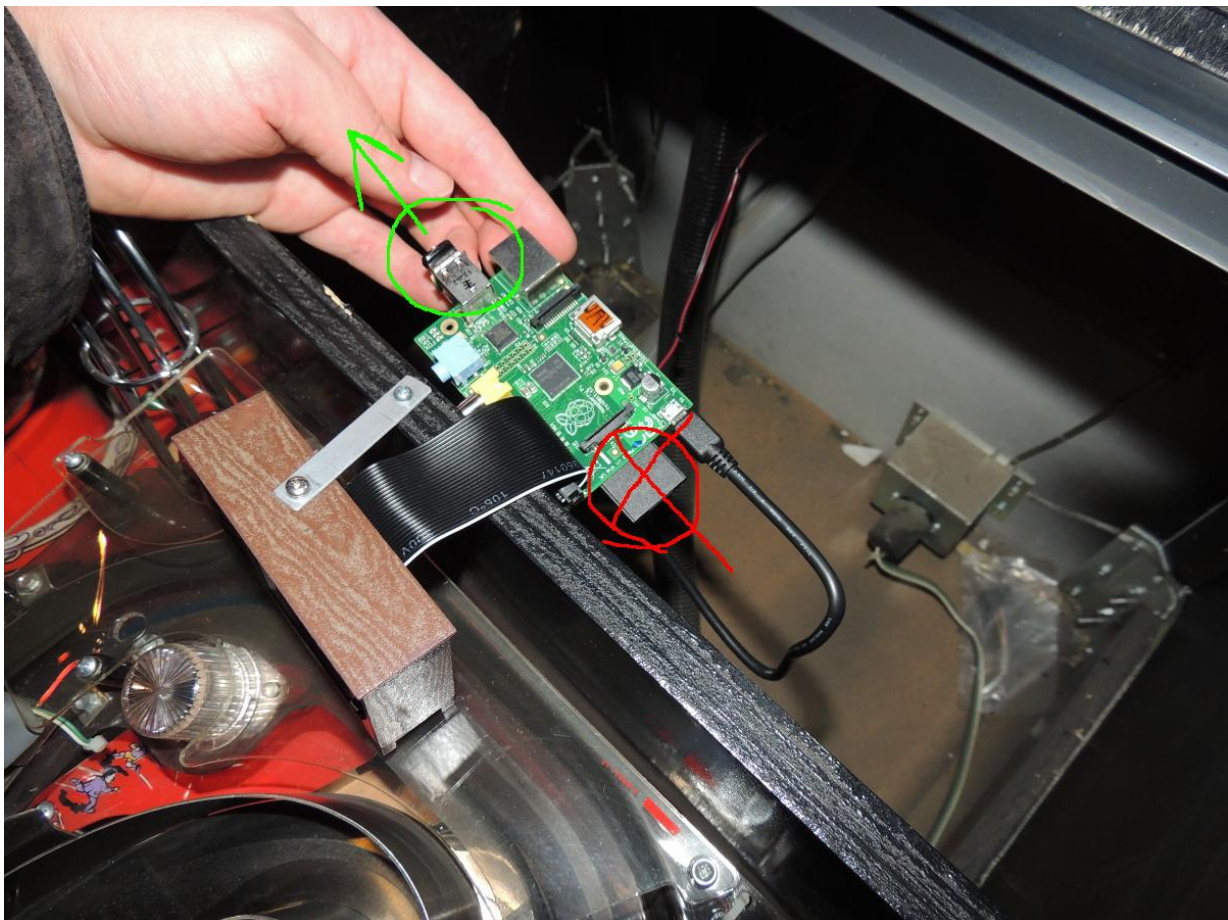
This mod includes a couple of sample video files and a default configuration file for your particular machine. You do NOT need to follow these directions unless you want to change the configuration settings or update the videos that get played.

The sample video files and default configuration will vary depending on the Pinball machine you purchase the mod for.

Step 1: Remove the USB drive

To change the configuration or video, you will need to remove the small USB thumb drive that is plugged into the Raspberry Pi board. Check the picture below for the location of the USB drive.

You DO NOT want to remove the SD card (which contains the operating system code).



Step 2: Plug USB drive into a computer

Plug the USB thumb drive into your computer. This has only been tested on windows and linux, but it should also work on a mac.

Step 3: Backup USB drive (Optional)

Copy all the files on the USB drive as a backup, in-case you wish to revert back to the default configuration later. You can also move all the files onto a bigger USB drive if you need more space. Just make sure to format any new USB drive in FAT32 file format or the USB drive will not be recognized by the Raspberry Pi.

Step 4: Prepare new video files

You will need to download a free (or paid) video encoder to prepare the video files. If you cannot find one, ask me for help and I will try to find one for you.

Most video formats can be played, however software should be used to encode the video and optimize the format for the device by following these guidelines:

- 320x240 resolution (keep the aspect ratio of the original video source, so get as close to this as possible)
- MPEG-2 video encoding with .mpg extension
- Bitrate should be the same as the source, or if very high, set it between 1000kbps – 8000kbps (the higher this is, the bigger the file size will be)

Feel free to experiment with other encodings.

Step 5: Update video files

Updating the video files could not be simpler, just place any videos you want to play inside of the “media” folder located on the USB drive. You can also remove files that you do not want to be played. Please see the previous step to see which types of files are supported.

Step 6: Update configuration options (Optional)

The configuration options currently available are:

- Set the folder name on the USB drive where the video files are located.
 - Default is “mediaFolder=media” (This should not normally be changed.)
- Flip the video upside-down.
 - Default is “flipVideo=false” (This is “true” for some machines such as TFTC)
- Randomize the video or play in alphabetical order.
 - Default is “shouldRandomize=true”
- Play a custom playlist if you want to fully customize the order in which videos are played.
 - Default is disabled with a # in front. (This is not normally used)
- Enable sound output.
 - Default is “soundEnabled=false” (This should not normally be used. Audio will not be synchronized with the video. Also slows down video processing.)
- Scale down video to the screen size.
 - Default is “scaleEnabled=true” (Even though it will scale down the video for you, it should already be pre-encoded to the correct size of 320x240... or close to it. This will ensure playback is at the best speed and quality possible.)

Step 7: Update playlist files (optional)

If you specified a custom playlist file in the config.txt, then you will want to place it in the same “media” folder where videos are found.

The following playlist types are currently supported:

- .pls
- .m3u