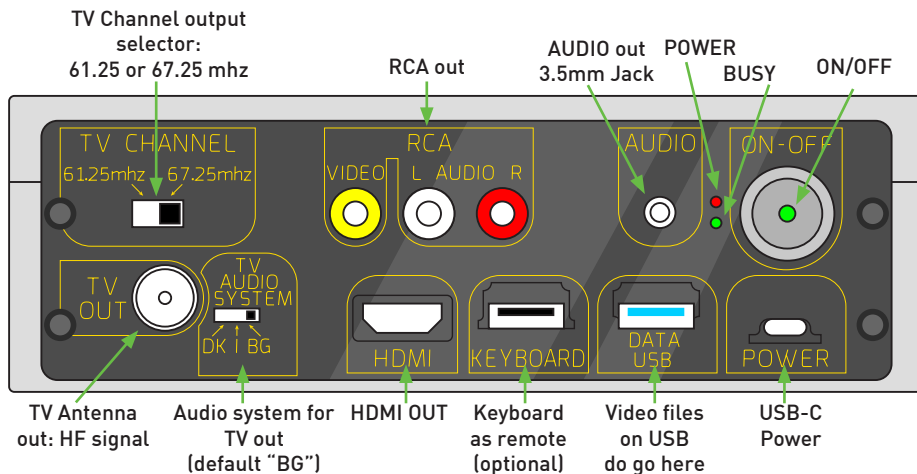




tvPlayer.git



actually
READ ME
please
dear god

!!! IMPORTANT !!!

TV antenna connection: **Check and test** if TV receives one of the following HF channels: 61.25 or 67.25mhz.

No guarantee this works with every old TV - test before you are on set!

Always use the **supplied USB-C** power cable

As of now, **don't hot-plug HMDI** monitors. Restart for HDMI usage

Various **wireless technologies** might interfere with the "TV antenna out" and drown the signal (eg. wireless sound equipment).

STEP 1

TURN ON tvPlayer

STEP 2

CONNECT TO WiFi OF tvPlayer



Or connect manually to this WiFi:

WIFI NAME: tvPlayer

PASSWORD: digitalProps#8400

Be sure that your phone does not automatically connect to another wifi nearby you have previously connected to!

STEP 3

GO TO THIS WEBSITE



Or enter manually this URL in your browser:

<http://10.3.141.1:8080>

Yes this is a website. No this does not need internet, just the running tvPlayer
- thats what the WiFi is for!

STEP 4

PUT VIDEO OR IMAGE FILES ON THE USB AND PLUG IT IN

FEATURES

tvPlayer plays video or image files endlessly for old and new TVs or computer screens. Each file is looped, and the loop is seamless.

It has features that allows you to simulate old TV stations - You can act like someones flicking through TV stations like in the old times of the 90s.

There's Greenscreens with and without markers built in. Also this comes in shades of Blue, Grey, Black and White.

It has a webinterface for remote control but needs no internet connection.

Its nice and I love it.

PLAY VIDEO FILES

Video files on the supplied USB drive play each in an endless loop. Switch to another video by remote keyboard, the USB presenter or swap the USB drive on-the-fly.

The order of the files on that USB drive lead the order of the TV channels - so the alphabetically first file (case insensitive, numbers before letters) is the first channel, etc.

The media player used here can play these file types: .mp4, .mkv, .avi, .mxf, .m4v and .mov. Other containers are available when asked.

Best practice is .mp4 container with a h264 codec.

Do *NOT* use 4K or other heavy files, they will not play smoothly.

Some image type are played as well: .jpg, .jpeg, .png, .gif, .tiff, .bmp

Note that .png files do not work when it has a color mode of "indexed colors".

USB DRIVE

Use the supplied USB-drives, or create ones yourself formatted in EXFat (*MAC formatted drives do not work!*).

HOW TO STOP WORRYING AND CONNECT YOUR OLD TV AND FIND THE RIGHT TV CHANNEL

On the tvPlayer, select a channel (either 61.25 or 67.25mhz) with the rocker switch on the front. This is like a TV stations frequency.

Try to tune your TV to one of those frequencies by flicking through all the channels, or start an automated search on newer TVs. An older TV has some sort of fine-tuning available most of the time. See behind a flap or on the back for little knobs, sometimes you have to turn them with a screwdriver.

Sound is also delivered through the antenna plug.

REMOTE CONTROL

There is a web interface to control the tvPlayer if you have connected to the WiFi "tvPlayer" with password "digitalProps#8400".

Alternatively, you can use the USB presenter (or any USB Keyboard). To make the presenter work, you need to get the USB receiver in the base of the presenter and plug it in the tvPlayer.

A (wireless) USB keyboard for advanced remote control - see table on the next pages, or the delivered USB presenter. This allows you to skip from file to file but nothing else. To restart a file, skip one forward and one back again. Simplest and easiest.

CAVEATS

As tvPlayer is a work in progress, some things may not behave.

- HDMI out may not work - test it
- Sound on HDMI out does not work automatically. Use the 3.5mm or the RCA audio output.
- Greenscreen / Blackscreen or white noise does not get represented in the webinterface correctly
- Hot-plugging an HDMI screen - as in, unplugging or re-plugging while running - may lead to a crash of the system

Thanks for understanding.

Have fun - thanks!

KEYBOARD CONTROLS

In case you don't like WiFi, mobile phones or Power Point presenters - you can connect a regular keyboard to the USB port on the tvPlayer. Works great with wireless too!

The key commands are as follows:

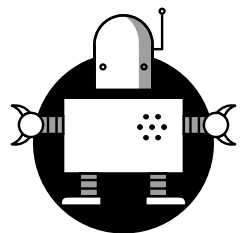
Keypress	Action	Note
LEFT	prev channel	aka "previous file" on USB drive (alphabetically)
RIGHT	next channel	aka "next file" on USB drive (alphabetically)
[number]	go to channel nr [number]	
UP	jump +5 seconds	
CTRL + UP	jump +60 seconds	
SHIFT + UP	pause and jump one frame forwards	
DOWN	jump -5 seconds	
CTRL + DOWN	jump -60 seconds	
SHIFT + DOWN	pause and jump one frame backwards	
p or space	toggle play / pause	
ESC	toggle fullscreen	
q	shutdown raspberry pi	
b	toggle black screen on or off	Also pauses the current video when entering black screen, resumes video when exiting black screen
g	toggle green screen	Available chroma screens : Green, Blue, Black, Grey, White Each with 3 different tracking marker arrangements and one without.
G (SHIFT+g)	cycle through green screens →	
CTRL + g	cycle through green screens ←	
c	video fitting	"Contain", "stretch" or "cover"

Keypress	Action	Note
i	set inpoint	Set where this video starts to play when chaning channels
I (SHIFT+i)	clear inpoint on this video	
o	set outpoint	Set where this video ends (loops back to inpoint)
O (SHIFT+o)	clear outpoint on this video	
a	toggle tv GUI on or off	Show green channel numbers and volume bar
w	toggle white noise on or off between channel changes	
W (SHIFT+w)	cycle through 4 different white noise effects	Also activates white noise between channel change and shows current white noise selection
j	decrease playback speed	Min. 0.01x
k	normalize playback speed	
l	increase playback speed	Up to 3x
x	pan video to the right	
X (SHIFT+x)	pan video to the left	
y	pan video downwards	
Y (SHIFT+y)	pan video upwards	
CTRL + x (or CTRL + y)	reset pan	
.	zoom out	Bug: Does not scale channel number, volume images properly
SHIFT + .	zoom in	Bug: Does not scale channel number, volume images properly
CTRL + .	zoom reset	
,	reduce video brightness by 5%	
SHIFT + ,	increase video brightness by 5%	
m	reduce video contrast by 2.5%	

Keypress	Action	Note
n	reduce video saturation by 2.5%	
SHIFT + n	increase video saturation by 2.5%	
+	reduce volume by 10%	
-	increase volume by 10%	

CONTENTS OF CASE

- tvPlayer Box
- USB power brick
- 4x Drive (16GB)
- USB remote presenter
- HDMI, antenna and RCA cables
- Adapters:
 - Antenna to banana
 - 2x Antenna gender-changer
 - Antenna to that other pointy thing
 - RCA to scart
 - RCA to S-Video
 - HDMI to DVI-I
 - HDMI to VGA
 - RCA to BNC



www.fluescher.ch

This is an open source project:
www.github.com/falue/tvPlayer