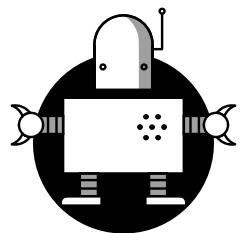| Key	Action	Notes
W (SHIFT+w)	cycle through 4 different white noise effects	Also activates white noise between channel change and shows current white noise selection
j	decrease playback speed	Min. 0.01×
k	normalize playback speed	
l	increase playback speed	Up to 3×
x	pan video to the right	
X (SHIFT+x)	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%	
+	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 gen-der-changer, Antenna to that other pointy thing, RCA to scart, RCA to S-Video, HDMI to DVI-I, HDMI to VGA, RCA to BNC,
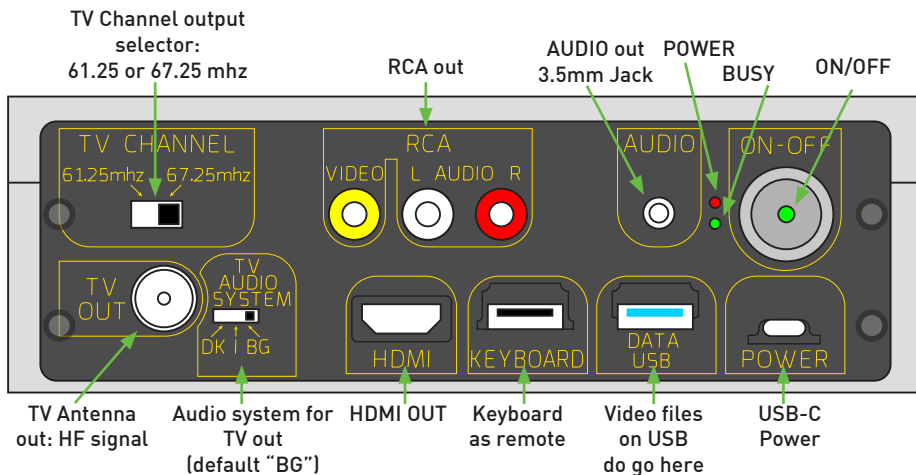
www.fluescher.ch
This is an open source project:
www.github.com/falue/tvPlayer

tvPlayer .git

TVPLAYER BOX

TV Channel output selector:
61.25 or 67.25 mhz

RCA out

AUDIO out
3.5mm Jack

POWER

BUSY

ON/OFF

TV CHANNEL
61.25mhz   67.25mhz

RCA
VIDEO   L AUDIO R

AUDIO

ON-OFF

TV OUT

TV AUDIO SYSTEM
DK | BG

HDMI

KEYBOARD

DATA USB

POWER

TV Antenna
out: HF signal

Audio system for
TV out
(default "BG")

HDMI OUT

Keyboard
as remote

Video files
on USB
do go here

USB-C
Power

---

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).

KEYBOARD CONTROLS

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	
SHIFT+UP	pause and jump one frame forwards	
DOWN	jump -5 seconds	
SHIFT+DOWN	pause and jump one frame backwards	
p or space	toggle play / pause	
b	shutdown raspberry pi	
Q (SHIFT+q)	exit program	
q	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"
i	set inpoint	Set where this video starts to play when chaning channels
I (SHIFT+i)	clear inpoint 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	

PLAY VIDEO FILES + TV CHANNELS

Add video files to the supplied USB drive. Start the device. Videos play in an endless loop. Switch to another video by remote keyboard, the USB presenter or swap teh 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.

Refrain from special characters in filenames (like " and / and .)

The media player used here can play a lot of files: `.mp4`, `.mkv`, `.avi`, `.mxf`, `.mkv` and `.mov`, as well as some image types:

`.jpg`, `.jpeg`, `.png`, `.gif`, `.tiff`, `.bmp`. Note that .png files do not wokrk when it has a color mode of "indexed colors".

Best practice is .mp4 container with a h264 codec.

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 box, select a channel (either 61.25 or 67.25mhz). This is like a TV stations frequency. Try to tune your TV to one of those frequencies by flicking through all the channels. Most of the time, a TV has some sort of fine-tuning available. 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

Use a wireless 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.