

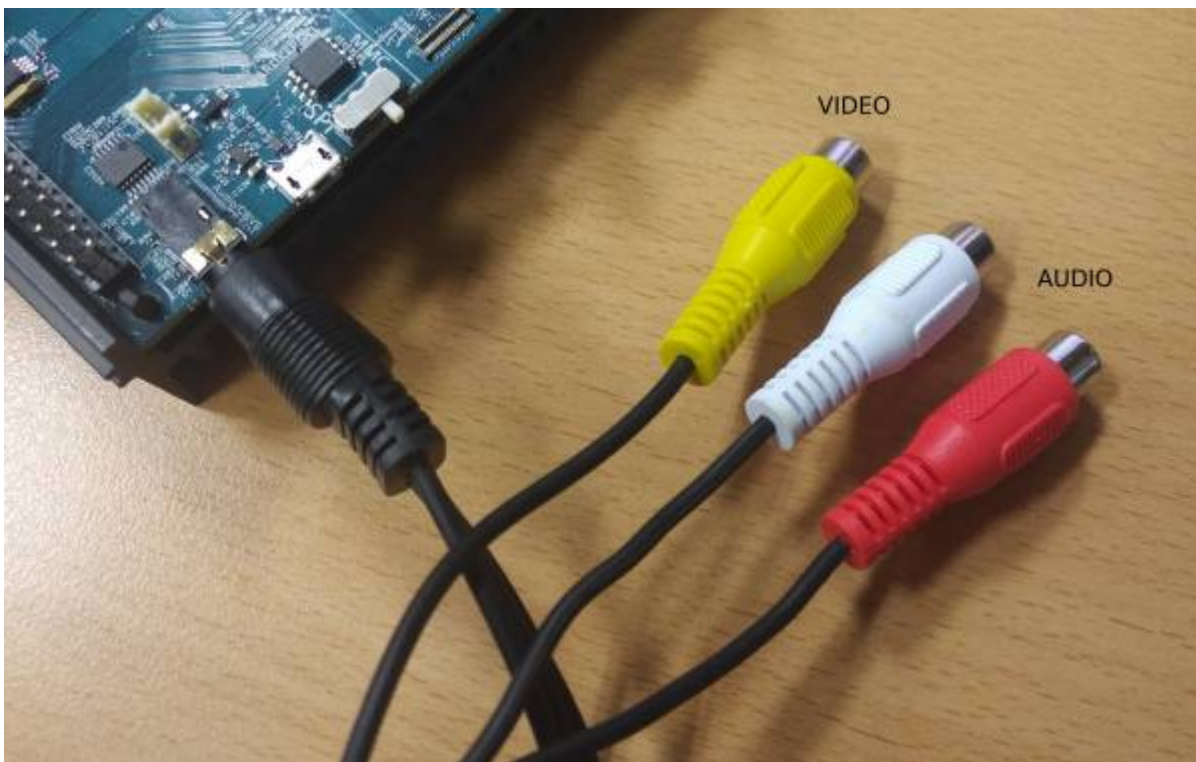
# CVBS (Composite Video)

## Background

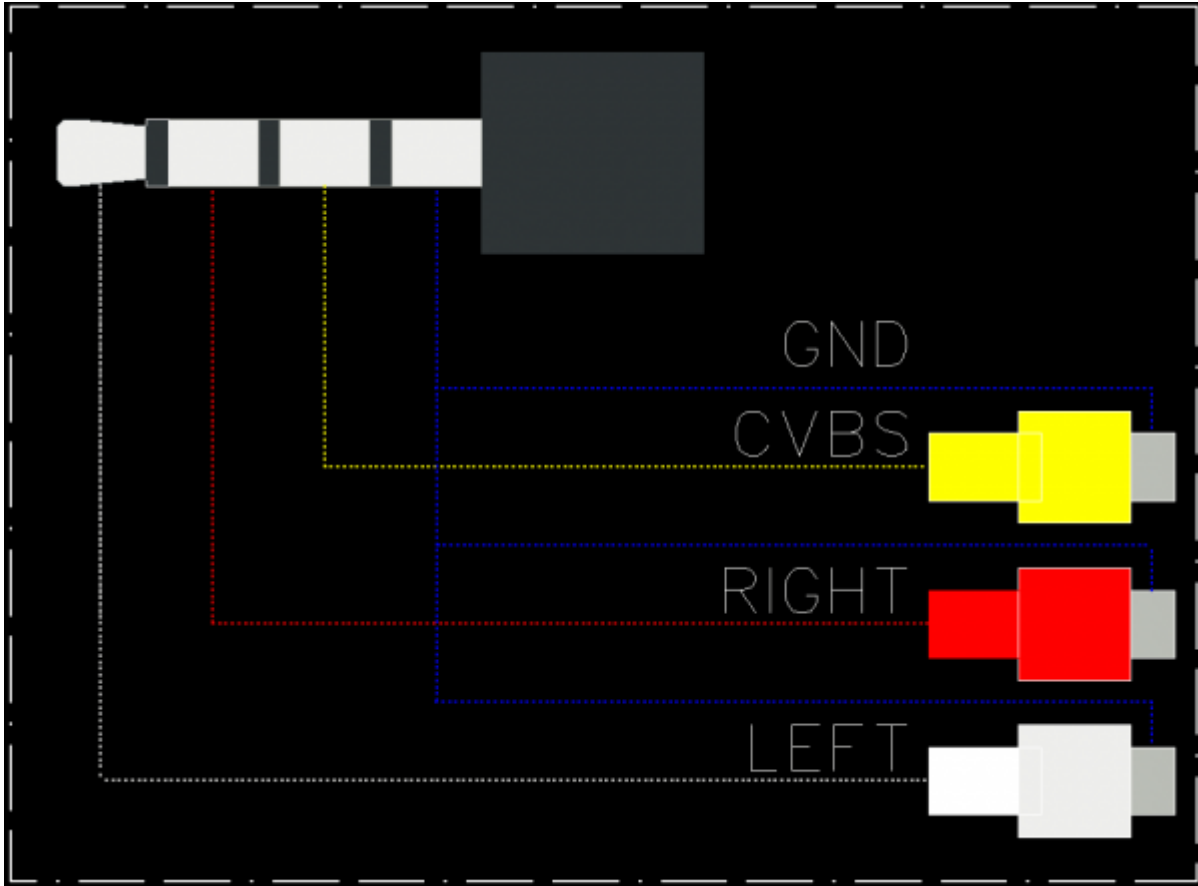
Composite video is an analog video transmission and supported resolutions are **480i** or **576i**. ODROID-N2 supports this video feature and designed to connect with a TV through audio jack.

## Hardware connection

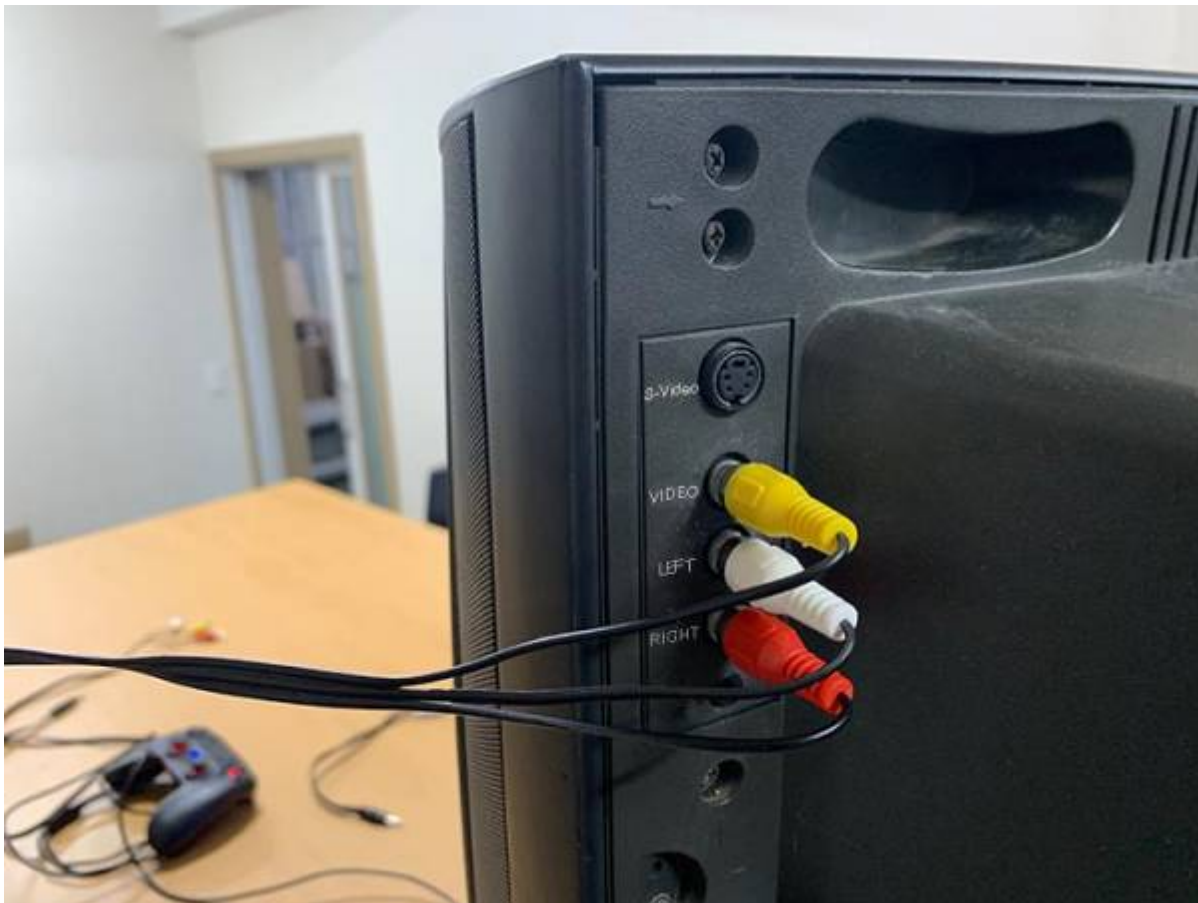
The CVBS video signal is assigned to the audio connector (CON6) and TV can be connected with a cable.



## Cable connection



### TV connection with RCA male-to-male cables



## Enjoy Retro games



You can buy the cable from this link.

<https://www.hardkernel.com/shop/3-5mm-male-plug-to-3-rca-female-audio-video-cable/>

## Software configuration

In order to select CVBS as a display output rather than HDMI, the Linux kernel command line must be configured properly and HDMI cable must not be attached. The CVBS picture format can be set in **boot.ini**.

```
# NTSC
setenv cvbsmode "480cvbs"
# PAL
#setenv cvbsmode "576cvbs"

setenv bootargs "${bootargs} cvbsmode=${cvbsmode} cvbscable=${cvbscable}"
```

For example, if the TV support **480CVBS** picture format and its cable is connected, the Linux kernel command line would show like this.

```
$ cat /proc/cmdline
console=ttyS0,115200n8 ... cvbsmode=480cvbs cvbscable=1 ...
```

# Overscan

## Android

The android support zoom in/out method to manage the overscan. you can mange it via Odroid-Settings or **boot.ini**.

Zoom rate value is limited from **80%** to **100%**.

```
.  
.br/># Display Zoom Rate  
setenv zoom_rate "100"  
.br/>.
```

Coming soon...

```
# Shrink the picture as 10%  
setenv overscan=10  
  
setenv bootargs "${bootargs} overscan=${overscan}"
```

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<http://wiki.odroid.com/> - **ODROID Wiki**

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