

How to setup GoPro Hero 3 for FPV or Output to TV Screen, using Composite / Video out Cable

What you will need:-

- Go Pro Hero 3 Video out / Composite cable (original from GoPro, Independent from Ebay or Homemade)
- Go Pro Hero 3 Camera (I have only tested this with the Black edition, so I do not know if it will work with Silver or White editions)
- TV or other display device that accepts composite input (typically a yellow, red and white Phono type socket/connection)

Go Pro Cable Options

Description: Hero 3 Composite cable – tested this cable and it works



Link: <http://gopro.com/camera-accessories/hero3-composite-cable>

Model Number: ACMPS-301

Price range: Approx € 25.00 (May 2013)

----- **OR** -----

Description: Hero 3 Combo Cable (not tested this specifically, but it should work the same as the composite cable)



Link: <http://gopro.com/camera-accessories/combo-cable>

Model Number: ANCBL-301

Price range: Approx € 45.00 (May 2013)

OR

Alternative Cables (**Not GoPro Original**) from Ebay

Note: The two cables options listed below allow you to power the GoPro from a 5volt power source as well as get the video out, but you will need to make / solder connections to the power source and your TV display or FPV device (if you are not familiar with doing this, then I would recommend using a cable that already has the connections that you need)

Option1

Name: USB TO AV Video Output & 5V DC power BEC input Cable plug FPV for Gopro/Gopro 3

Price: Approx £8.00 (May 2013)

Ebay Ref: 400455108497

Option2

Name: USB TO AV Video Output & 5V DC power BEC input Cable plug FPV for Gopro/Gopro 3

Price: Approx £7.20 (May 2013)

Ebay Ref: 380565403325

Possible 5v Power Source

(e.g. if you buy the Ebay type cables and want to charge Camera while using it)

There are many possible sources for a 5v power supply but I use a Gryphon dual Channel Linear Voltage Regulator which takes an input of between 6 and 10 volts, and has a switchable output of either 5.2 or 6.0 volts. You will need a battery source between 6 and 10 volts to connect to this, as well as a male to male futaba type cable to connect to the GoPro lead. I use a 7.4v 2-Cell Lipo Battery which are readily available (but you need a Lipo Charger to recharge the battery)

Link: <http://www.ercmarket.com/gryphon-duo-2-channel-voltage-regulator-gvr-3003.html> (ERC Market in Belgium, where I purchase my device)

Price: Approx € 30 May 2013



YouTube Videos (How to make your own cable – at your own risk)

Name: Flite Test - GoPro3 FPV Video Cable DIY - FAST TIP

Link: <https://www.youtube.com/watch?v=scMEUNb7XXU>

Name: Hero 3 USB Video Out cable Build

Link: <https://www.youtube.com/watch?v=FPogLnONqHU>

How to setup your connection between Camera and TV/Display

1. Switch on your Go Pro Hero 3 Camera and remove the protective side cover (where the memory card goes)
2. Connect your Go Pro Hero 3 Composite/Video out cable to the mini USB Port of your Camera (the lower socket!)



3. You may need to disable the Wifi features of the Camera (but for me it was not necessary)
4. Press the Silver Power button on the front of your Camera about 5 times until a Grey triangle appears in a black square



5. Now connect the yellow, red and white cables to your TV our device that you are using for the output display.
Note: depending on your exact cable and the input sockets on your device you may only have a red or white cable to connect, but the yellow Video out cable must be connected



6. If you have not already done so, make sure that the input on your TV or Display has been switched to it's composite input channel (i.e. the channel that relates to the socket where you have connected the yellow video cable from your Hero 3 camera)



7. You should now see a grey arrow on a white background, similar to the image on the front of the Go Pro Camera



8. Press the Red Select button on top of the Go Pro Hero 3



9. You should now see a selection of images and videos from the video card on your camera



10. Press the Silver Power button on the front of your Camera several times until you have a yellow box around the X in the top corner of your screen.



11. Now press the Red Select button on Top of the Go Pro Hero 3



12. You should now see the video output from your Camera on your TV/Display.



Note: If you are using video output cable that has a connector that allows you to power the camera from the USB port, then connect your 5 volt (DC) power source to the connector with the black and red cable, making sure that you observe the right polarity (connecting Positive to Positive and Negative to Negative – normally Black to Black and Red to Red)

My pictures below show my connection to the Gryphon Voltage regulator



7.4v 2 Cell Lipo Battery connected to one of the 2 input sockets



Output channel from the Voltage regulator connected to the power connector of the Camera's Video out cable (after ensuring that the Voltage regulator jumper connector has been set for 5.2volts)

