

DraganEye Video Transmission:

Set Up and Execution Tutorial



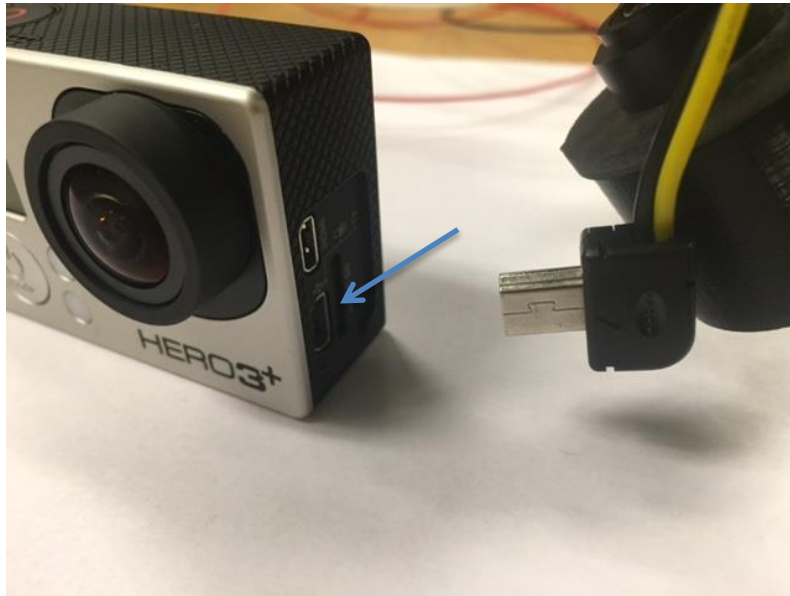
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Step 1: Preparing the Go-Pro

A) Locate the cable on the drone that plugs into the Go-Pro. It is composed of two small wires, one black and one yellow.

B) Plug this cable into the camera, as seen in the image below.



C) Once plugged in, slide the camera into the gimbal, in the direction indicated by the arrow. The camera should slide on easily, and does not require much force. Ensure that the camera has the correct orientation, as shown in the image below.



Step 2: Preparing the DraganEye Video Receiver

A) Plug in the audio/video cable to the DraganEye Video Receiver. The plug is located next to the one off switch, as seen below.



B) Connect the audio/video cables into their corresponding plugs of a television monitor. The white cable is for video and the red is for audio. For the purposes of this research, the audio is not required. To connect the video receiver to a laptop, see step 5.

C) Connect the cable for the DraganEye's power to the 1350 mAh battery, as shown below. The corresponding plug on the DraganEye video receiver is located on the opposite side as the audio/video plug.



D) Plug the black cable into the DraganEye video receiver. The plug is located on the opposite side of the receiver as the audio/video plug.

E) Check to make sure the video receiver matches the image below. Do not turn the power switch to on until right before you wish to begin video transmission.

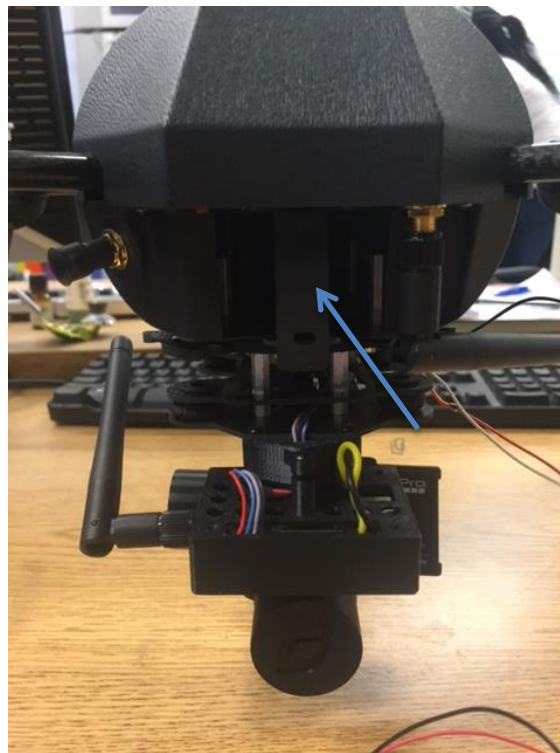


Step 3: Preparing the Drone

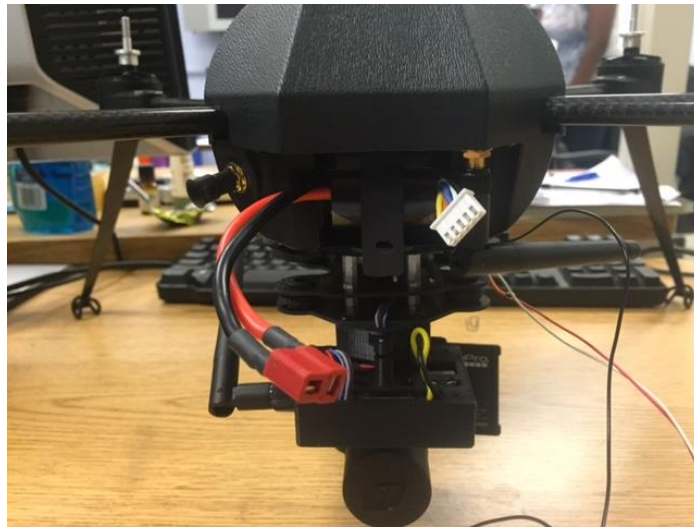
A) The drone runs on a 2100 mAh battery, as shown below.



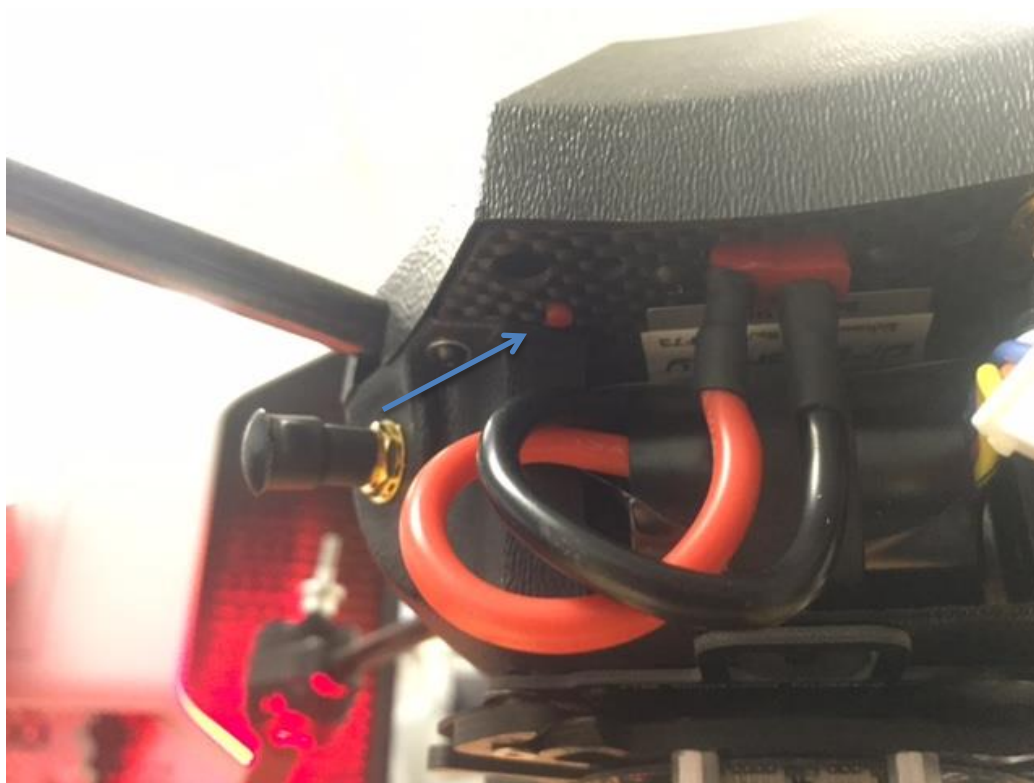
B) If the battery is not already in the drone, insert the battery into the drone. The battery pack is stored at the back of the drone, as indicated in the image below.



C) Slide the battery into the slot, making sure the red and black connecting wires are on the left, as shown below. The battery should slide in easily and should not require much force.



D) To plug the battery into the drone, plug the red connecting piece into just above the battery. The red wire will be on the left and the black on the right, as seen in the image below. While plugging in the battery, take note of the small red button, indicated with the arrow; this is the drone's power button.



Step 4: Video Transmission

A) When you are ready to begin video transmission, start by turning on the drone. To do this, hold down the small red button located near the battery. When the drone is on, red, green, and white lights will begin to flash.

B) Next turn on the Go-Pro. To do this, hold down the power/mode button on the front side of the camera. Continue to press down this button until you hear three quick beeps.

C) Turn the DraganEye video receiver's power button to on, and video feed should appear on the monitor.

Step 5: Connecting the DraganEye Video Receiver to a Laptop Computer

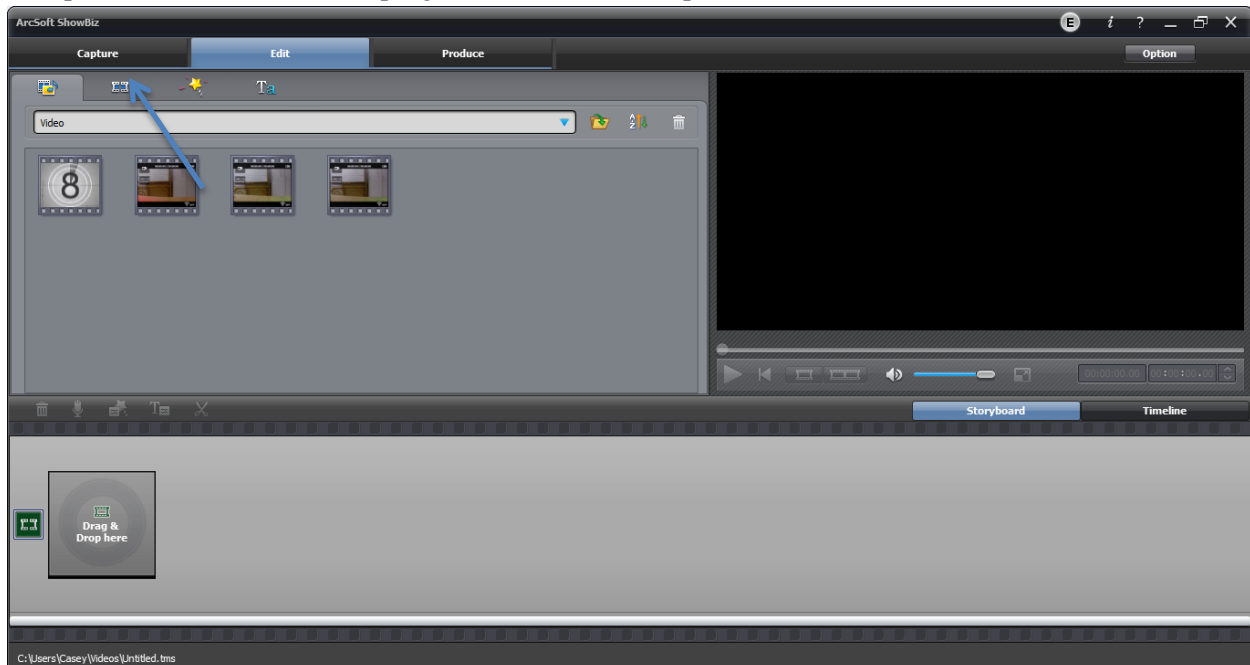
A) In order to get the video feed on a laptop, a RCD to USB cord can be used. The one chosen was the RCA to USB Ezcap Video Grabber, as shown below.

B) Plug the USB plug into the computer.

C) Using the provided CD, install the ArcSoft ShowBiz software and driver.

D) Once it is installed, connect the white video cable for the DraganEye receiver into the yellow plug for the Ezcap Video Grabber. Connect the red audio cable from the DraganEye receiver to the red plug for the Ezcap Video Grabber.

E) Open the ArcSoft ShowBiz program and click on "Capture".



F) Change the "Source" to be Ezcap Video Grabber. Once connected successfully, the video will appear on the screen.

G) To record video, press the capture button at the bottom of the screen.