Video Stream

Once connected to the GoPro camera, the drone can send a video stream to an other device.

Prerequisites

Request   First of all to request the data stream, you have to connect to the WiFi network of the drone and you need to initialize a TCP connection to the controller in order that it know the host.

WiFi   To connect to the WiFi network, you only have to turn on the drone and the controller, after that connect your device to WiFi named "SoloLink-_ _ _ _ _ _" and enter the password "sololink".

TCP   To initialize the TCP connection you have two possibility : simulate it with an utility like netcat or open a socket with an handmade program. In both cases you have to connect to the port 5502 and the address "10.1.1.1" (IP address of the controller)

Get video stream

To get the video stream you have two possibility again :

.   You can directly get it with a software like VLC, opening a file named "sololink.sdp" with the following lines :

```
c=IN IP4 10.1.1.1
m=video 5600 RTP/AVP 96
a=rtpmap:96 H264/90000
t=0 0
```

.   The other way is to create a UDP server in an handmade program, listening on the port 5600. The interpretation of the received frames will be described in the next part.

Protocol

Sources

— Streaming live video from the 3DR Solo : https ://www.markturner.net/2017/02/06/streaming-live-video-from-the-3dr-solo/