



Transnational Meeting no. 5 Sisak (Croatia)

# New components

Prepared by AIJU



# New components to assembly Last phase for Advanced drone:

## Components for FPV (First Person View):

- Mini Camera
- FPV Monitor 7"
- Transmitter and video receiver
- OSD



# Mini OSD V2.1 protocol MAVLink Compatible with APM

- <https://rc-innovations.es/Mini-OSD-protocolo-MAVLink>

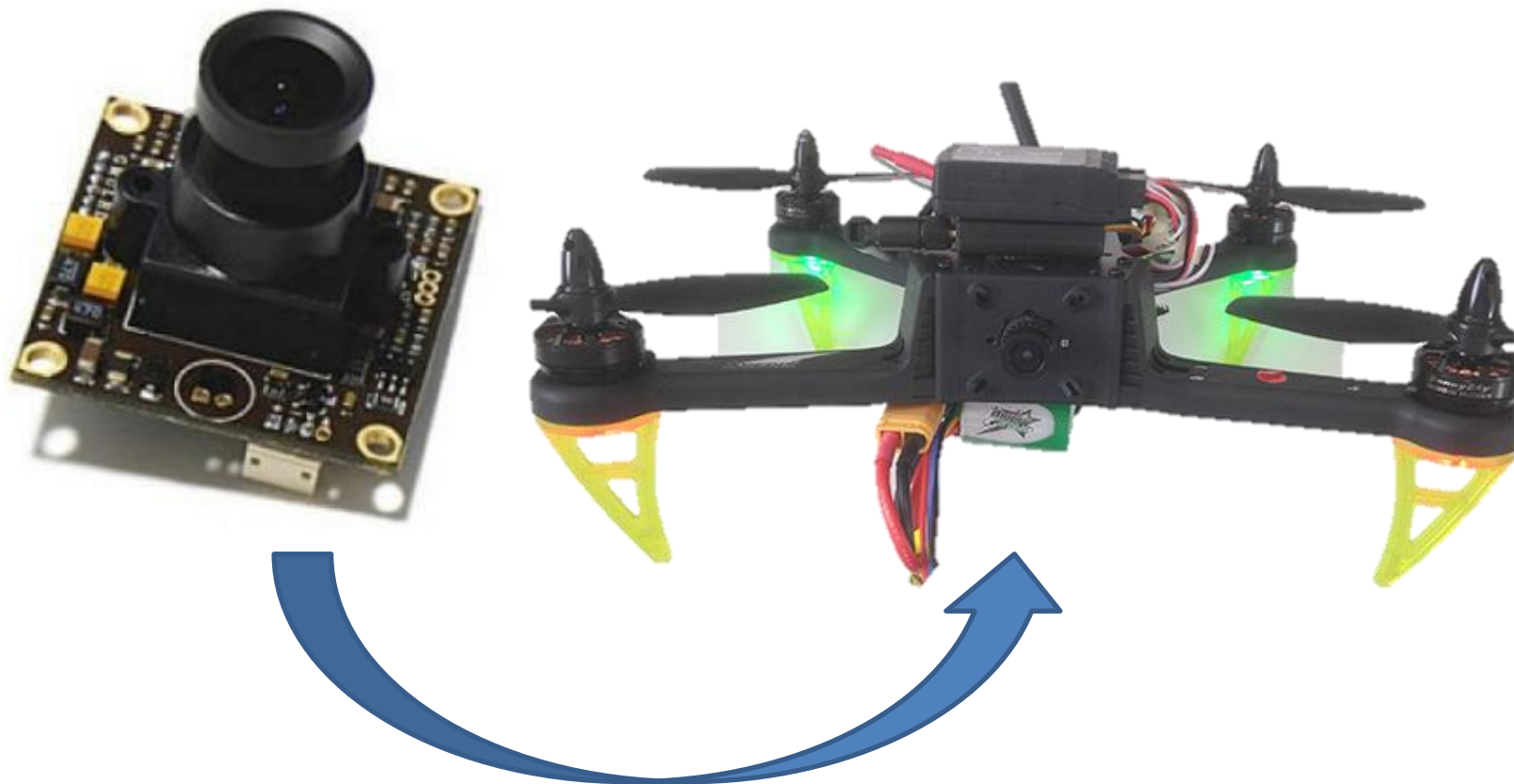


OSD (On Screen Display) => Telemetry



- Mini Camera 700TVL Sony CCD

<https://rc-innovations.es/FPV-accesorios-sistemas-largo-alcance-video-datos-uav/Camaras-FPV-UAV-catalogo/camara-fpv-economica-700tvl-sensor-sony>





- Monitor FPV Boscama 7" HD diversity

<https://rc-innovations.es/Pantalla-7-pulgadas-FPV--Receptor-5.8Ghz-dual-diversity-bateria-interna-grabador-tarjeta-sd-cargador->

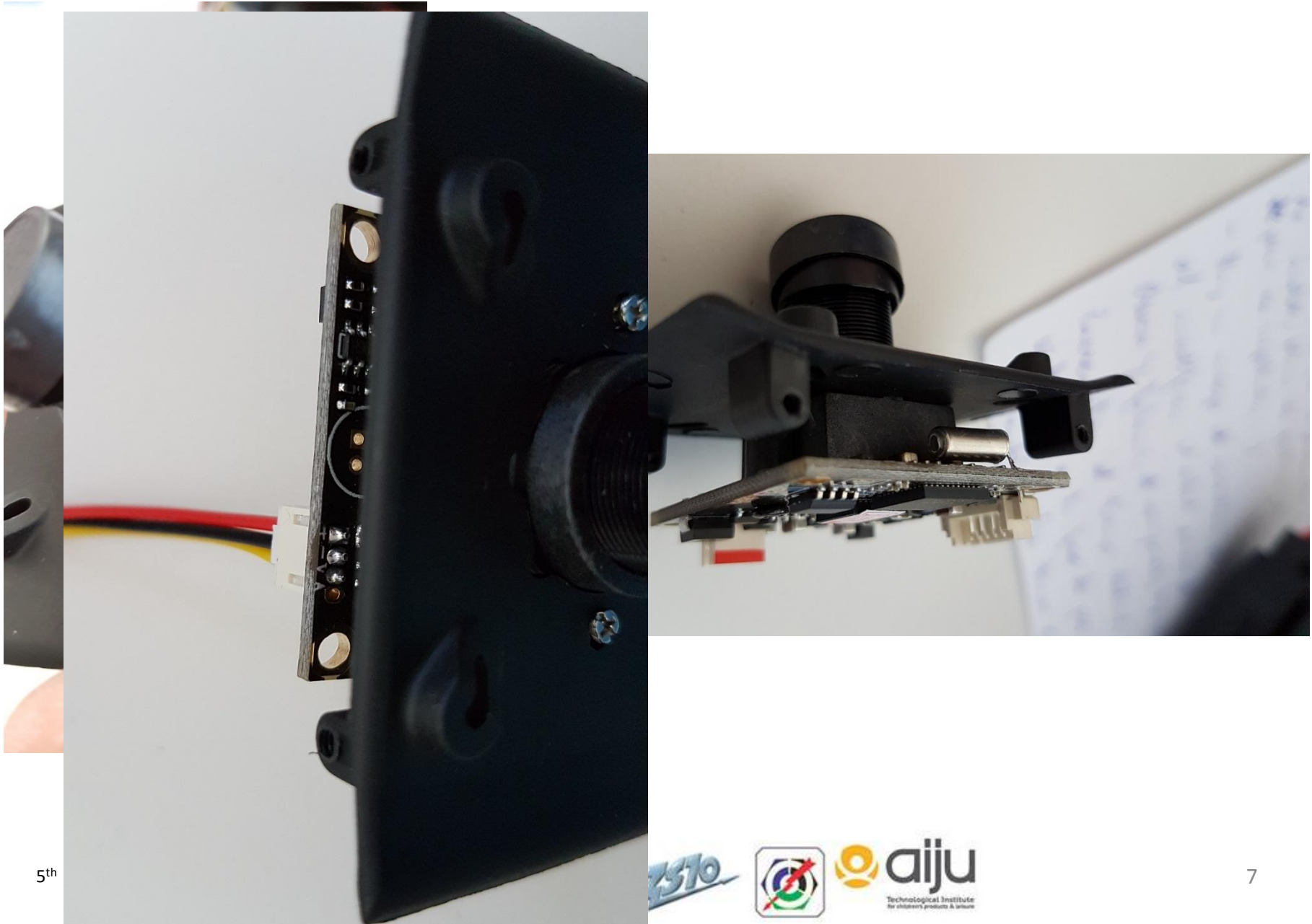


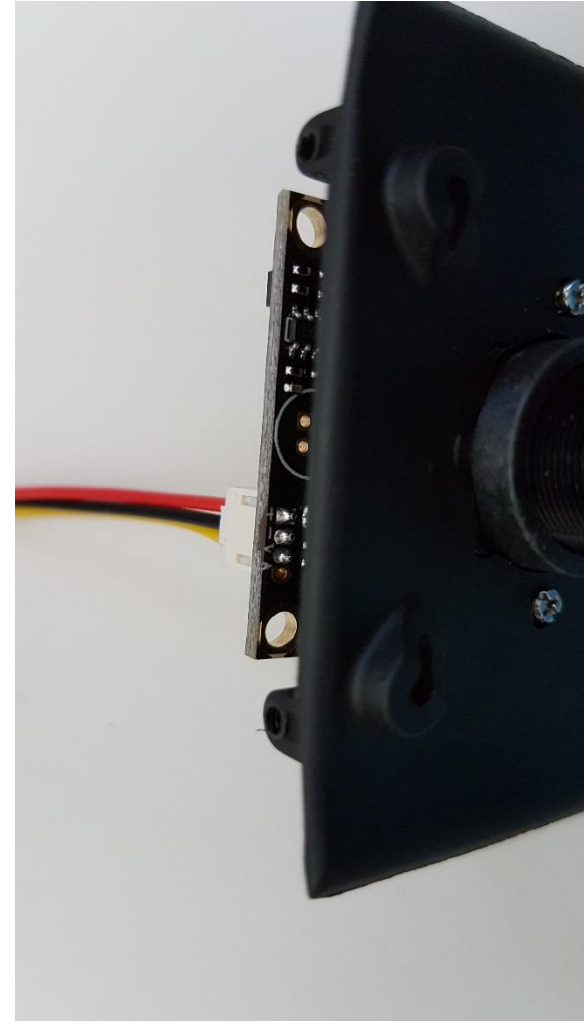
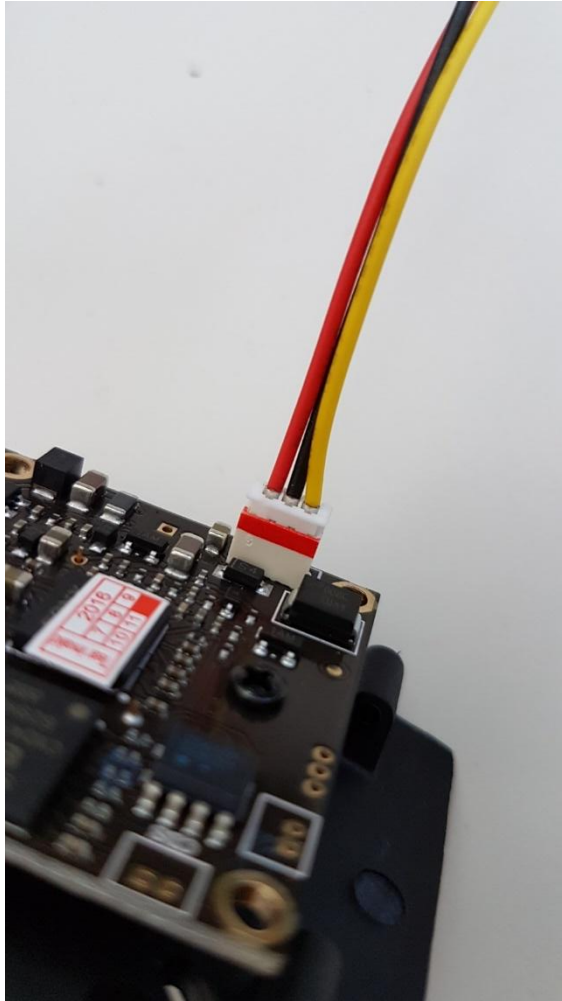


- Kit Tx/Rx video 5.8Ghz 200mW

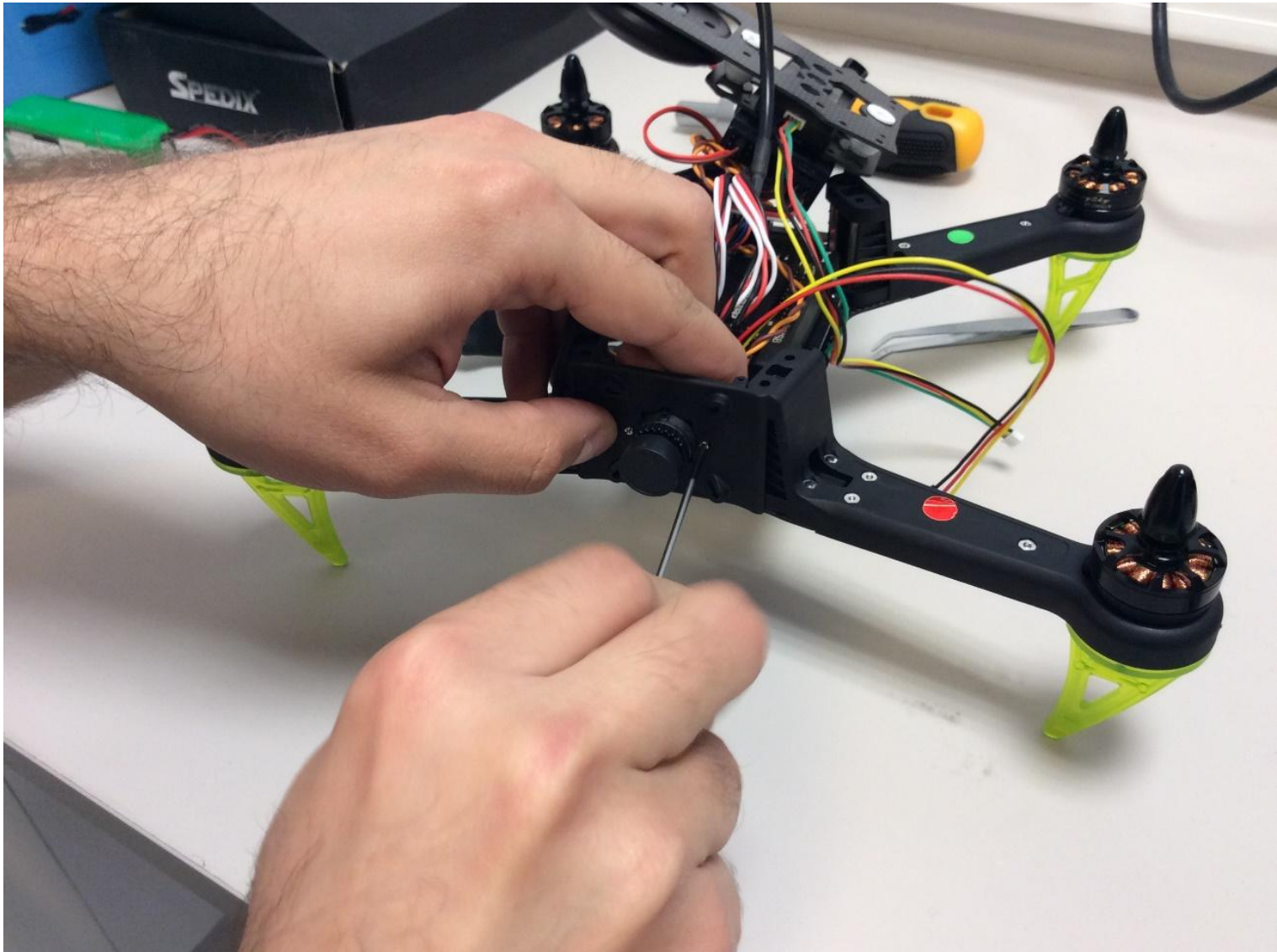
<https://rc-innovations.es/Kit-transmisor-receptor-video-5.8Ghz-200mW-rc-305->

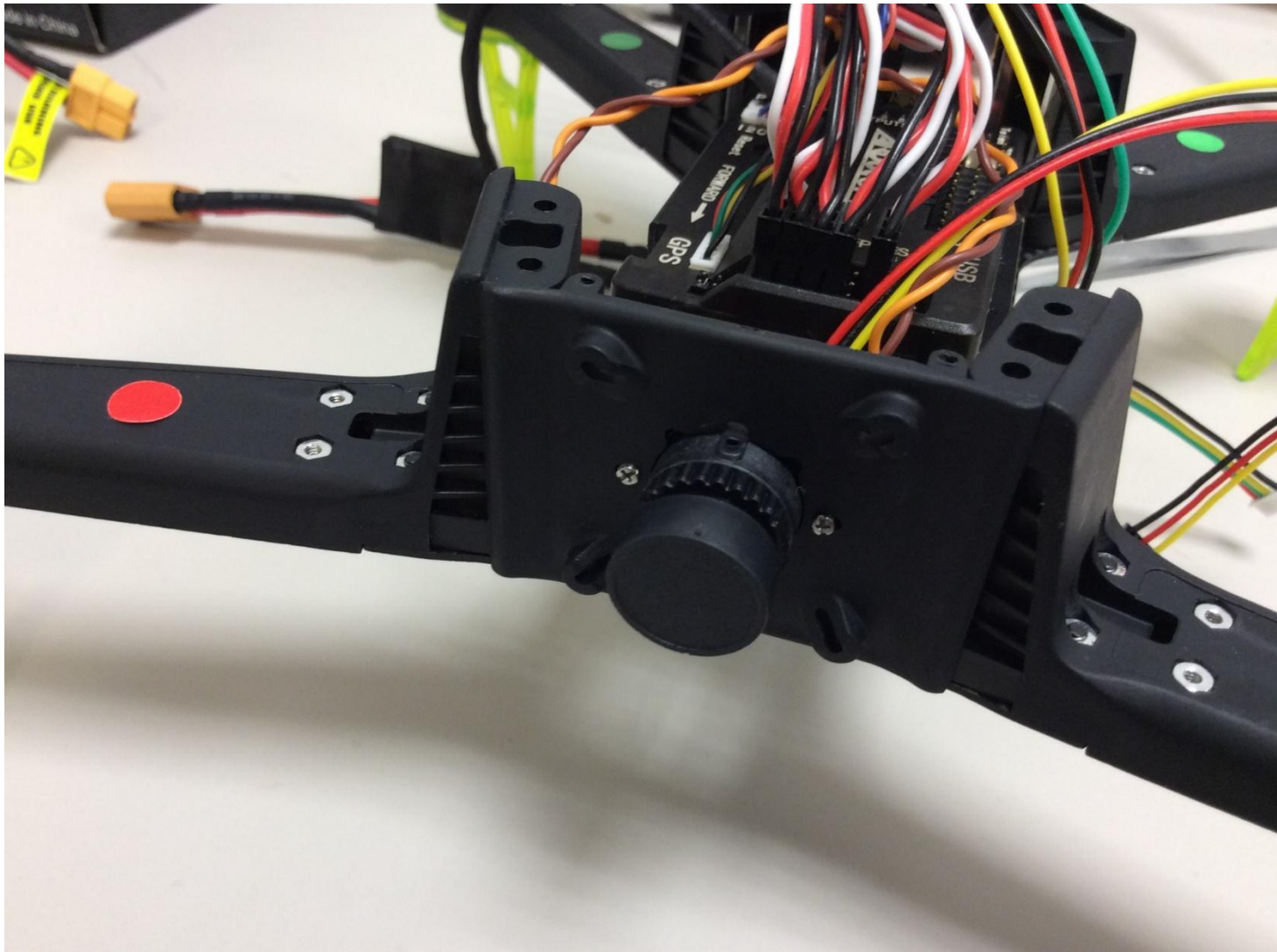






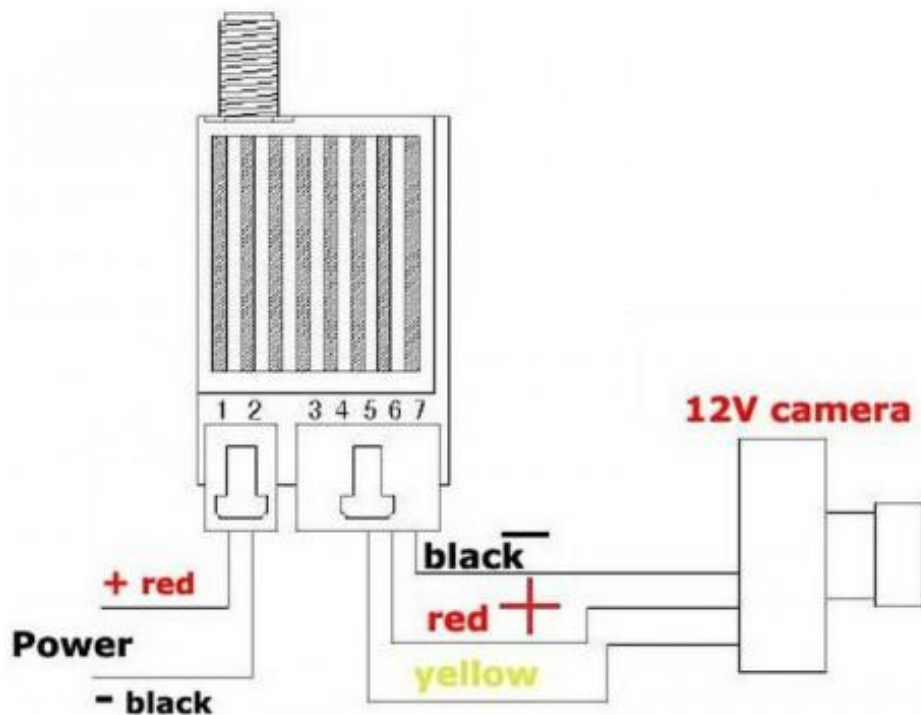






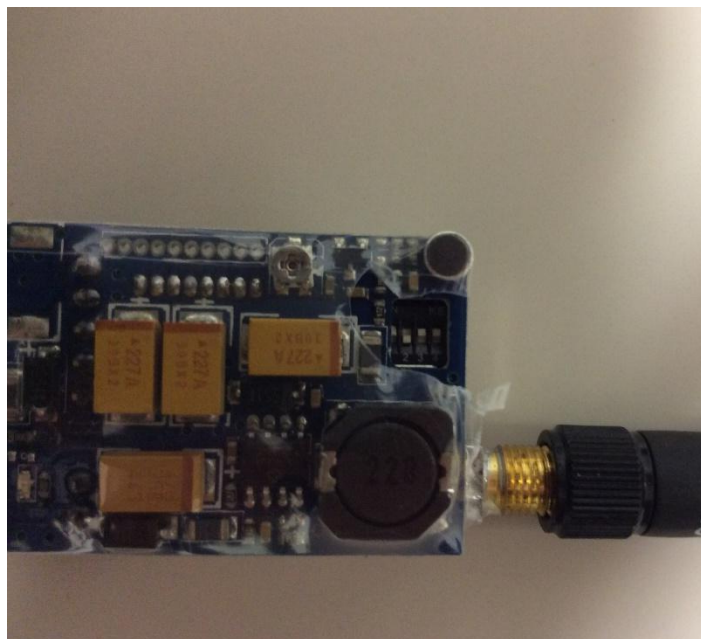


# VIDEO TRANSMITTER





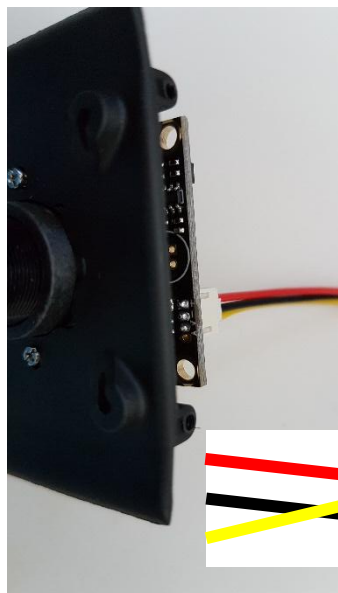
# VIDEO TRANSMITTER



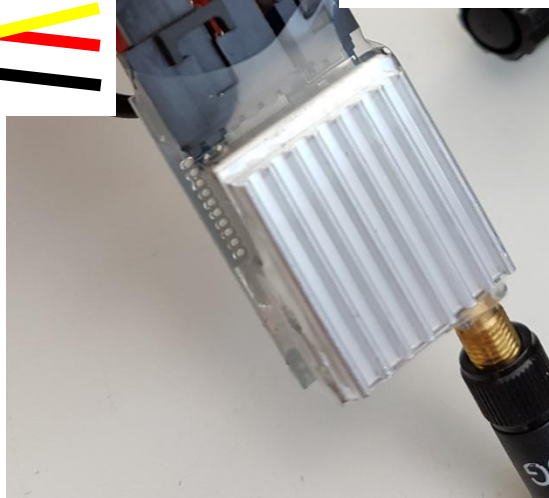
**Frequency Selection**

<b>CH1</b> 	<b>CH2</b> 
<b>CH3</b> 	<b>CH4</b> 
<b>CH5</b> 	<b>CH6</b> 
<b>CH7</b> 	<b>CH8</b> 

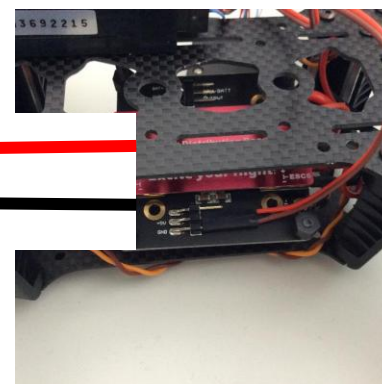
CH1	---	5705	---	MHz
CH2	---	5685	---	MHz
CH3	---	5665	---	MHz
CH4	---	5645	---	MHz
CH5	---	5885	---	MHz
CH6	---	5905	---	MHz
CH7	---	5925	---	MHz
CH8	---	5945	---	MHz



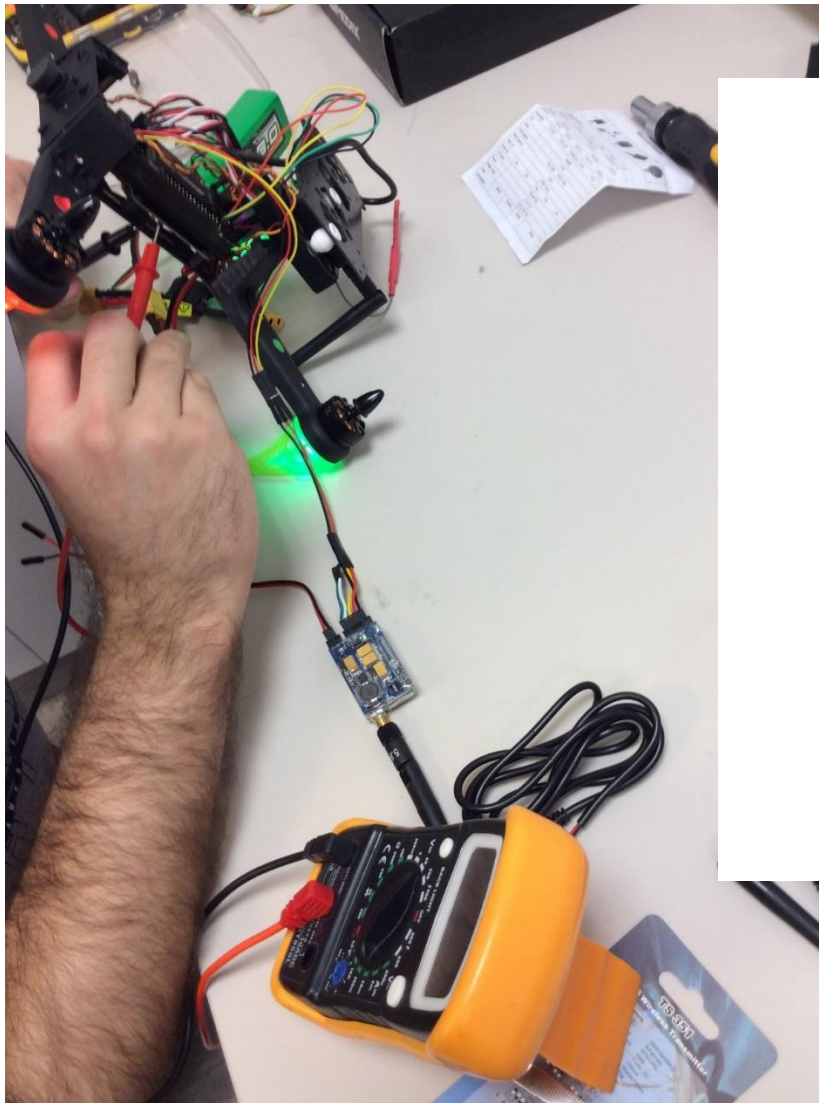
+12v  
Camera



Video transmitter



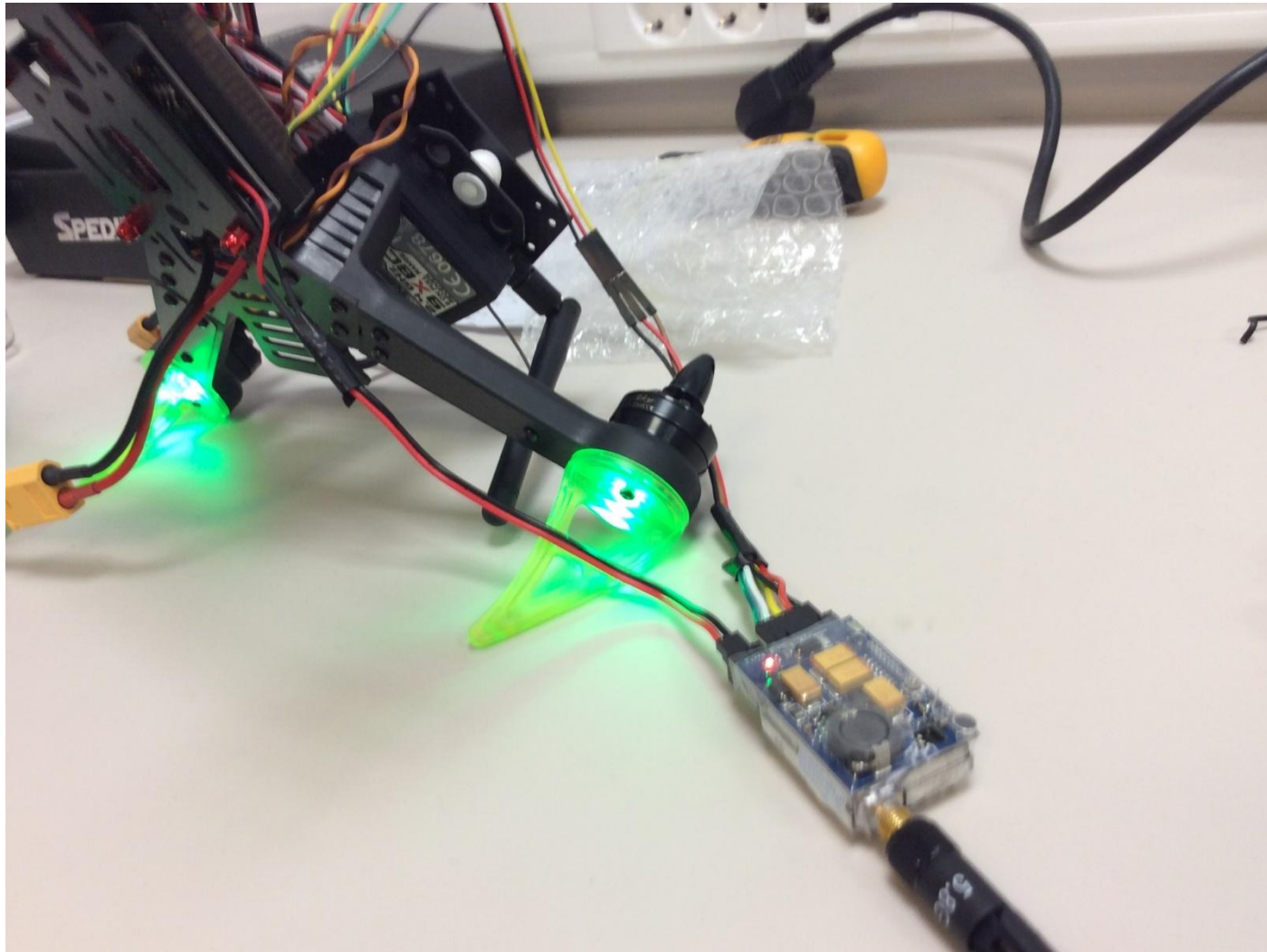
+12v  
Distribution board



**Frequency Selection**

<p><b>CH1</b></p>	<p><b>CH2</b></p>
<p><b>CH3</b></p>	<p><b>CH4</b></p>
<p><b>CH5</b></p>	<p><b>CH6</b></p>
<p><b>CH7</b></p>	<p><b>CH8</b></p>

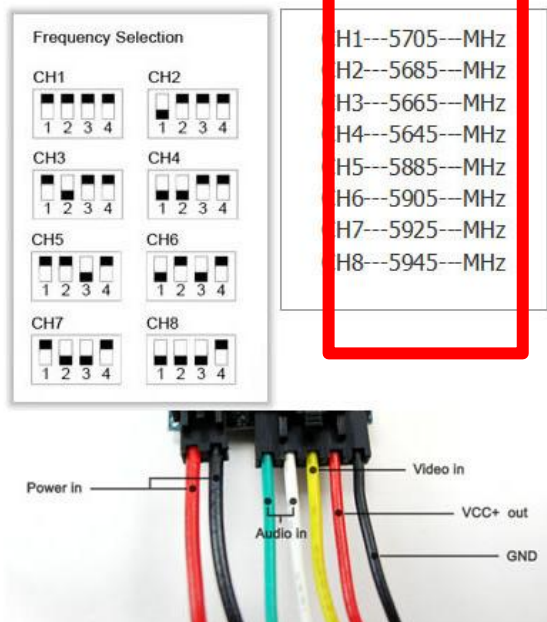
CH1---5705---MHz  
 CH2---5685---MHz  
 CH3---5665---MHz  
 CH4---5645---MHz  
 CH5---5885---MHz  
 CH6---5905---MHz  
 CH7---5925---MHz  
 CH8---5945---MHz



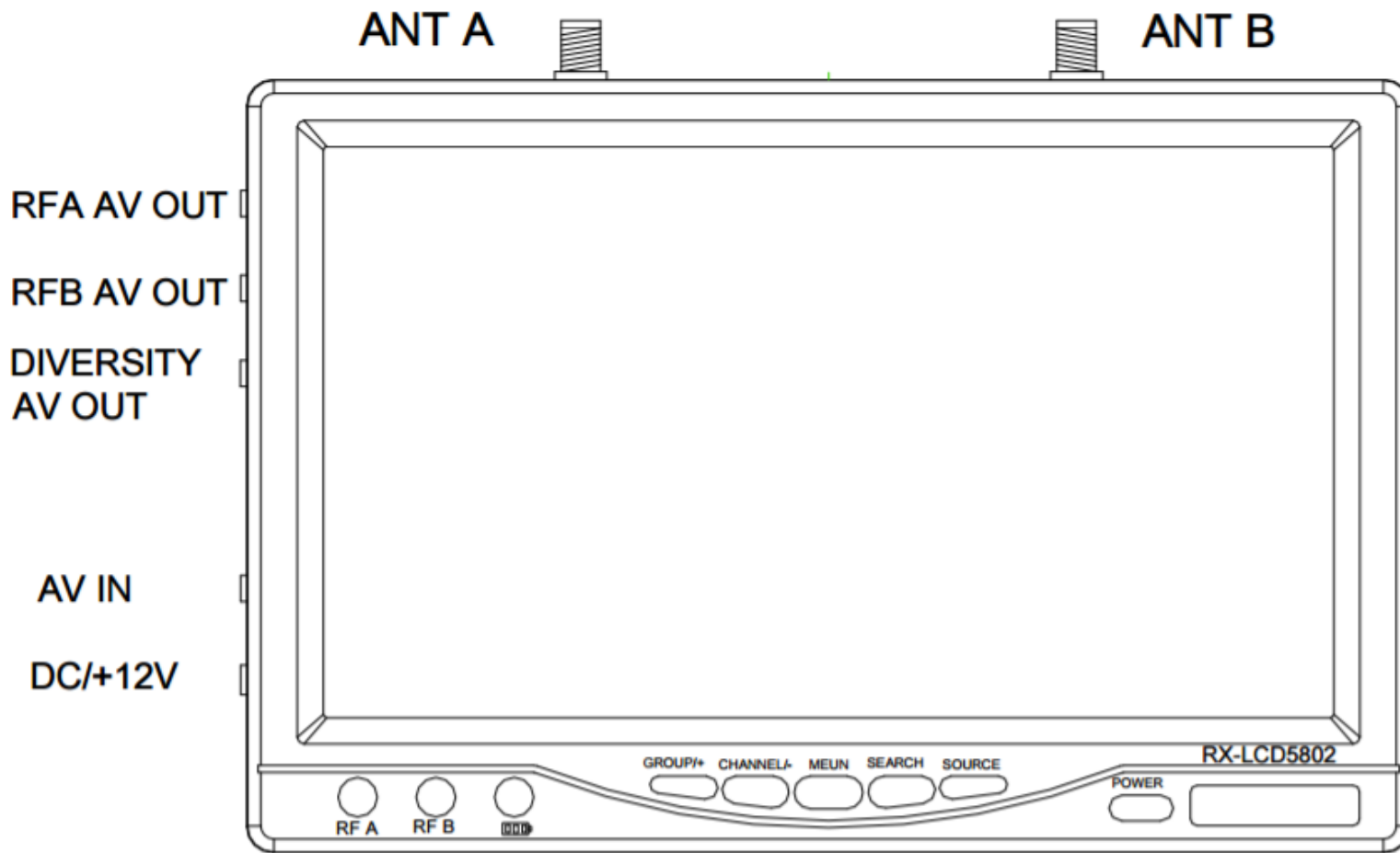


Band	Frequency(MHz)							
	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
A	5865	5845	5825	5805	5785	5765	5745	5725
B	5733	5752	5771	5790	5809	5828	5847	5866
E	5705	5685	5665	5645	5885	5905	5925	5945
F	5740	5760	5780	5800	5820	5840	5860	5880

OscarLiang.net







Top view



### 1) GROPU/+:

Default mode , click the GROUP option , A, b, c, d cycle selection ; MEUN pressed , this button is used as number + ;

### 2) CHANNEL/-:

Default mode , click the option for the CH 1-8 cycles ; MEUN pressed , this button is used as the value - ;

### 3) MEUN:

LCD display parameter adjustment , where the parameters using + , - to adjust , click MEUN, choose a different adjustment items ;

### 4) SEARCH:

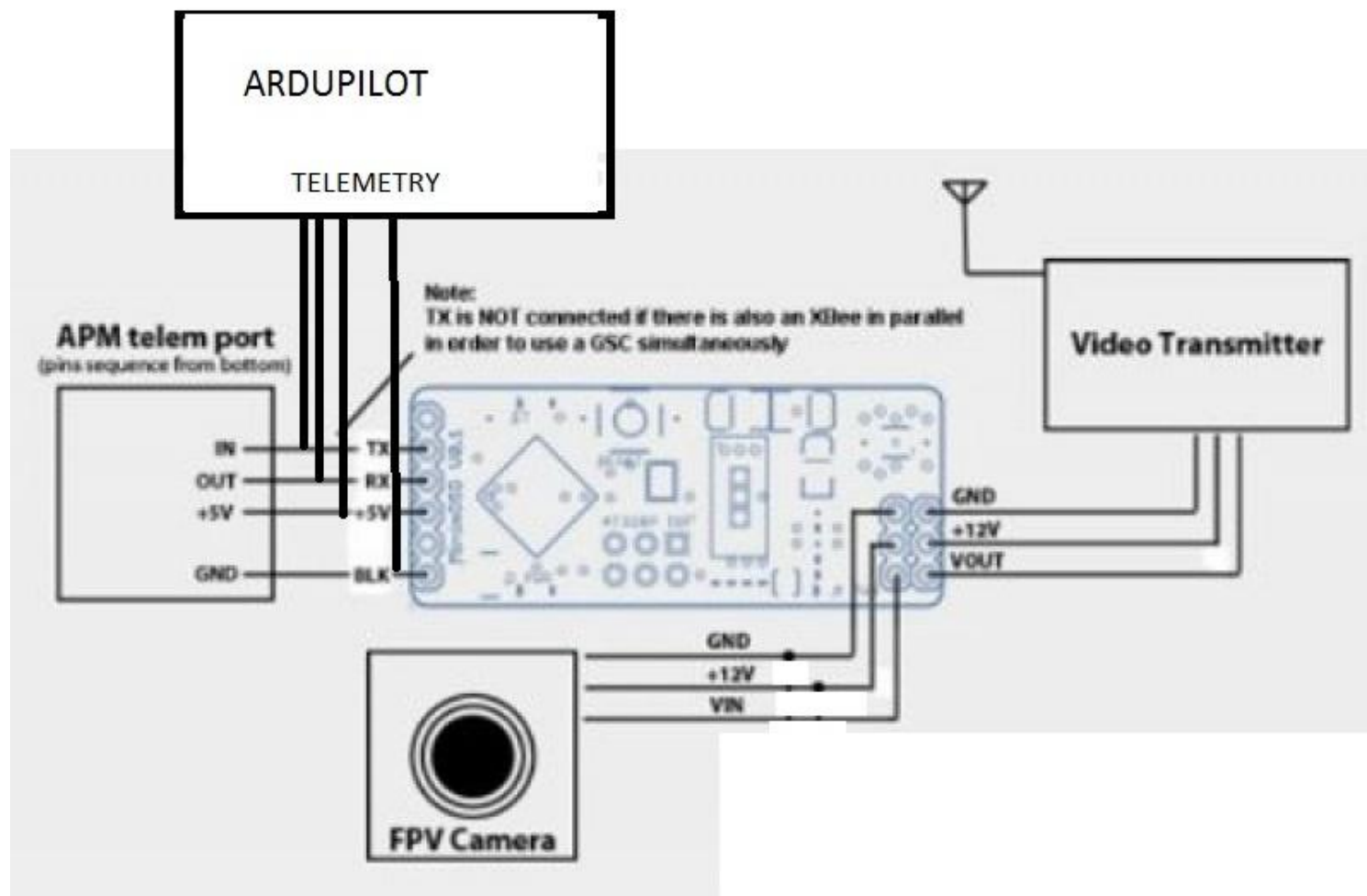
Press this button to enter the signal search , it will automatically search for the signals to a certain signal strength and stops on that channel , the signal is not found , will be on the channel before starting the search stopped ; searching process, all the buttons will not operate ;

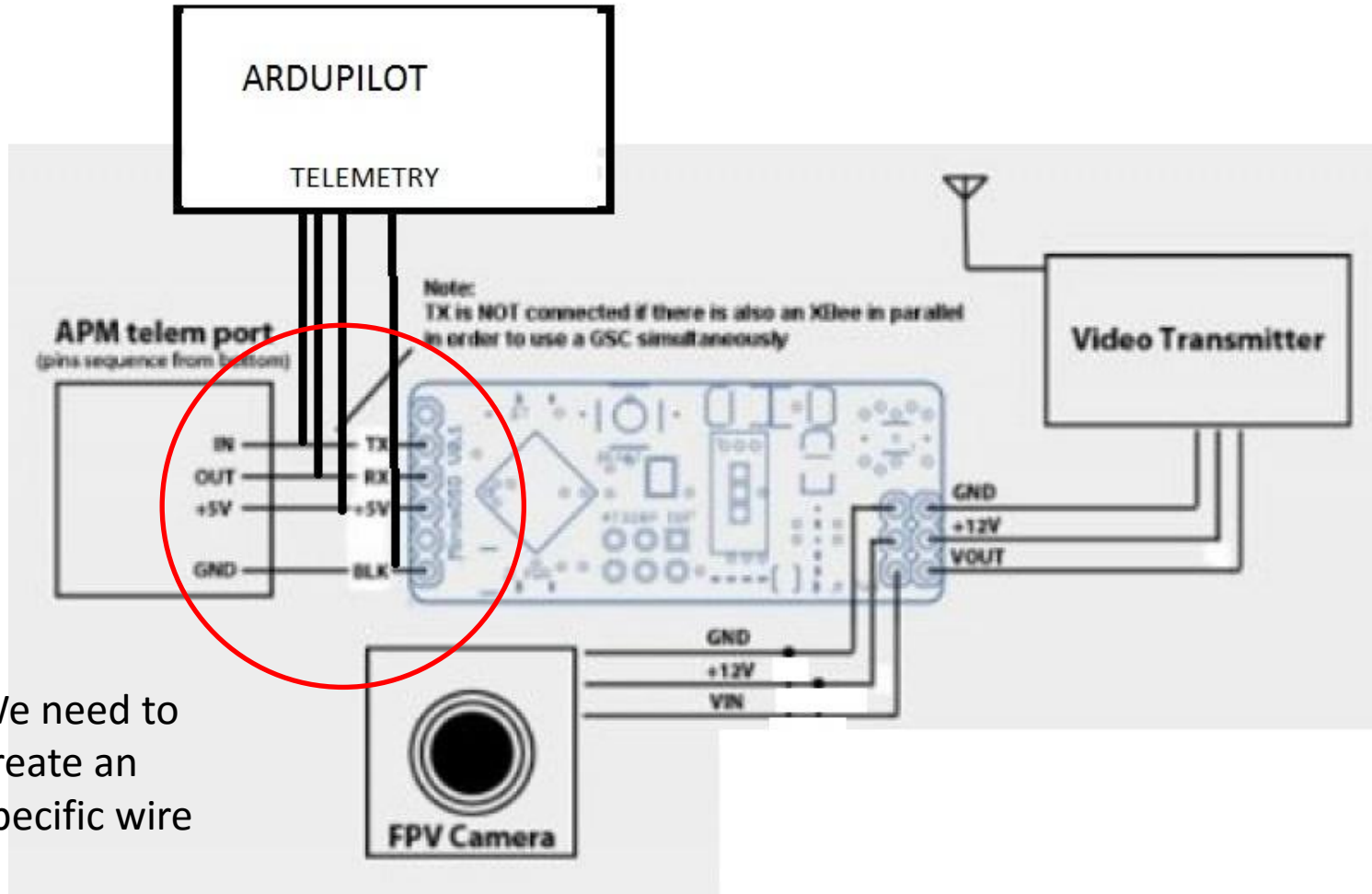


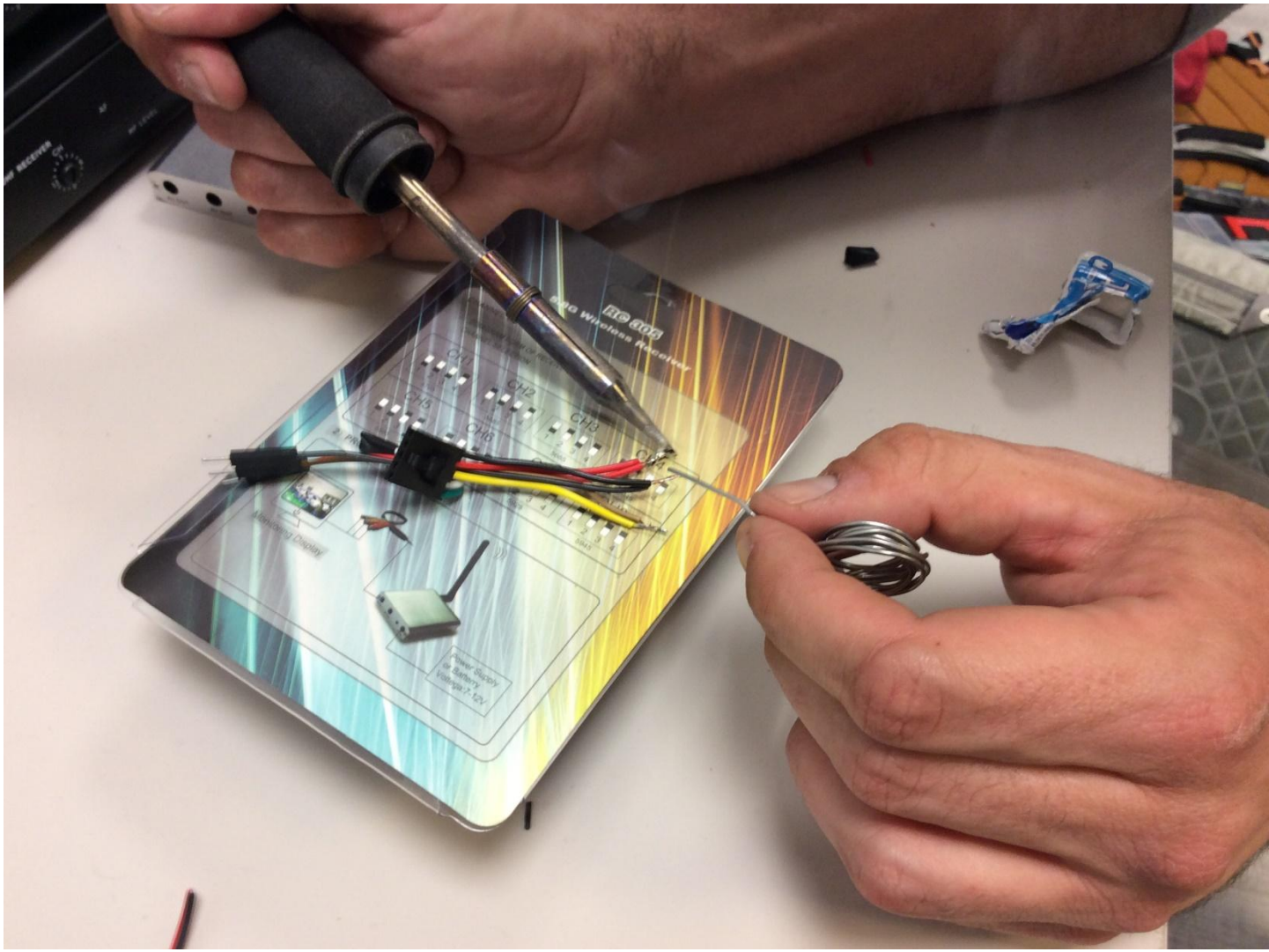


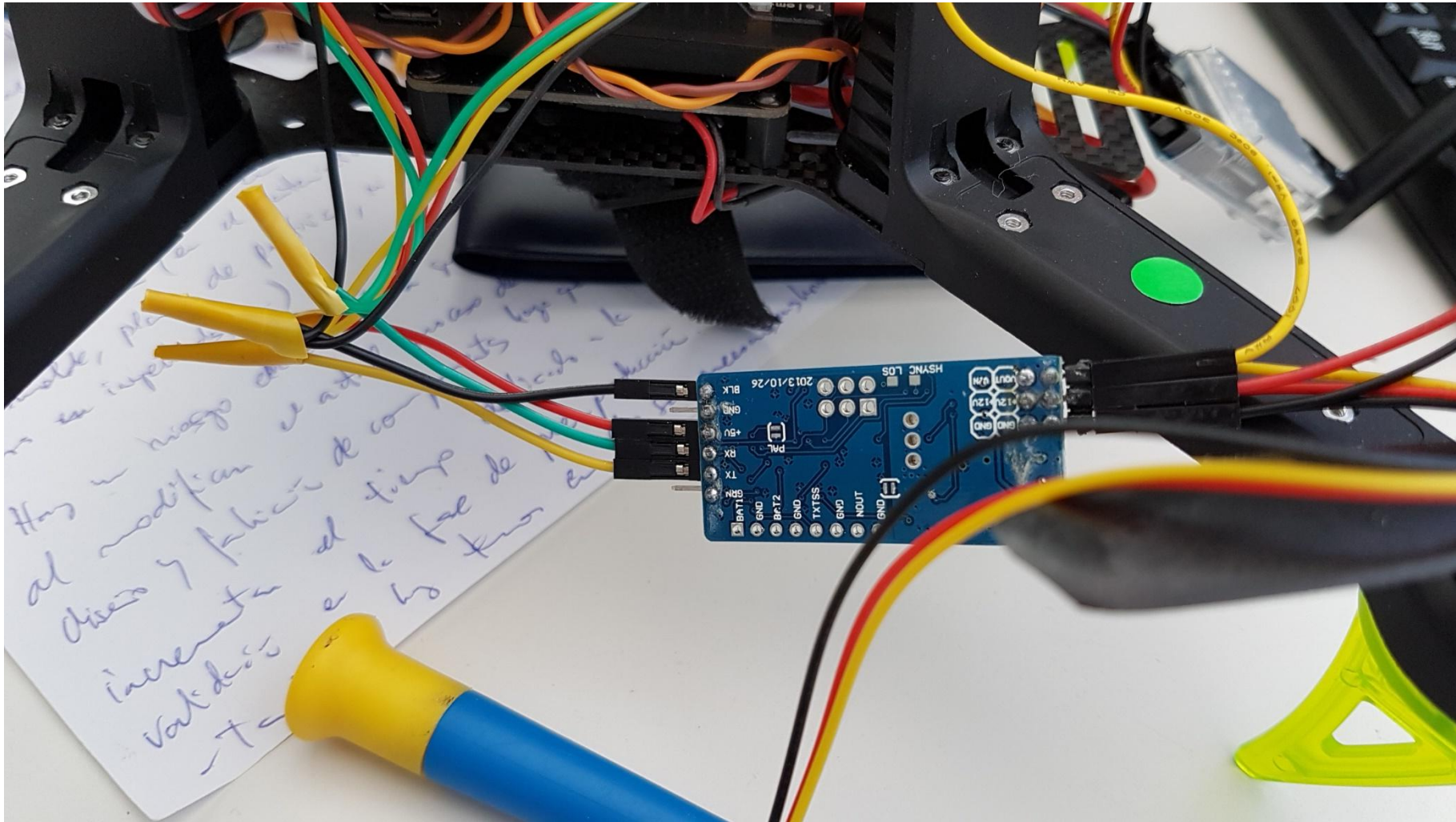
# ADDING TELEMETRY



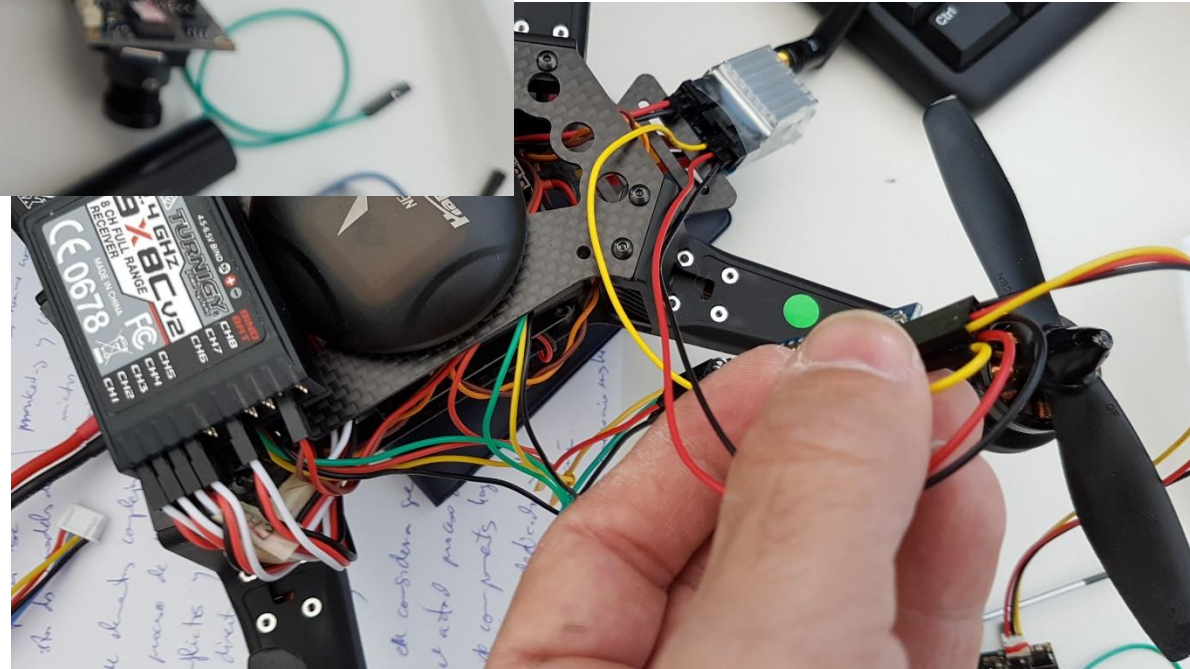
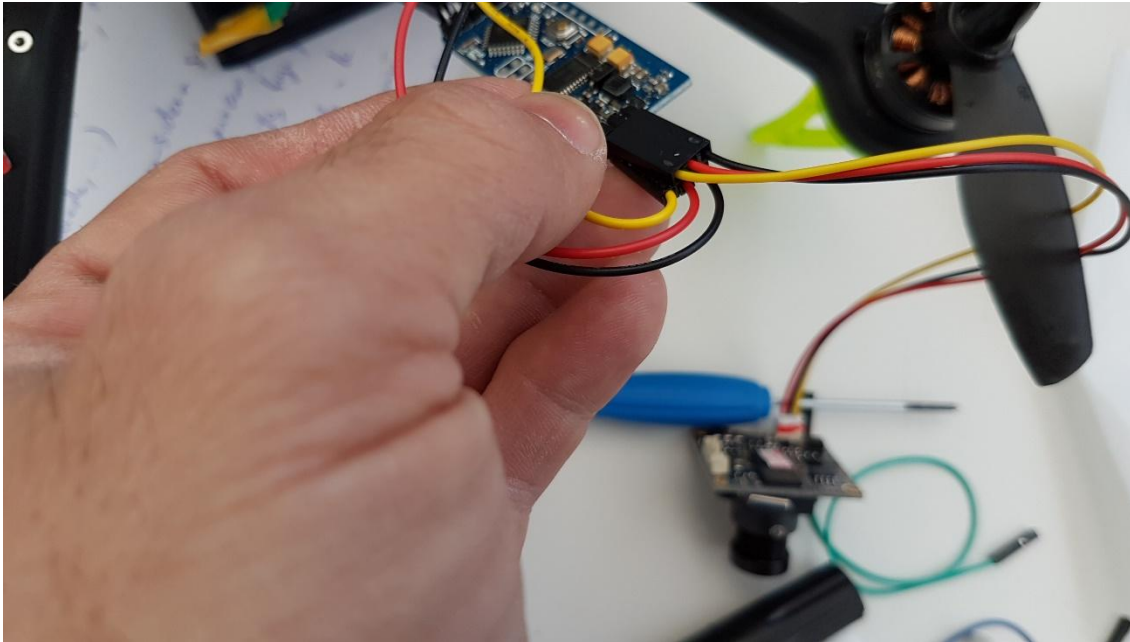


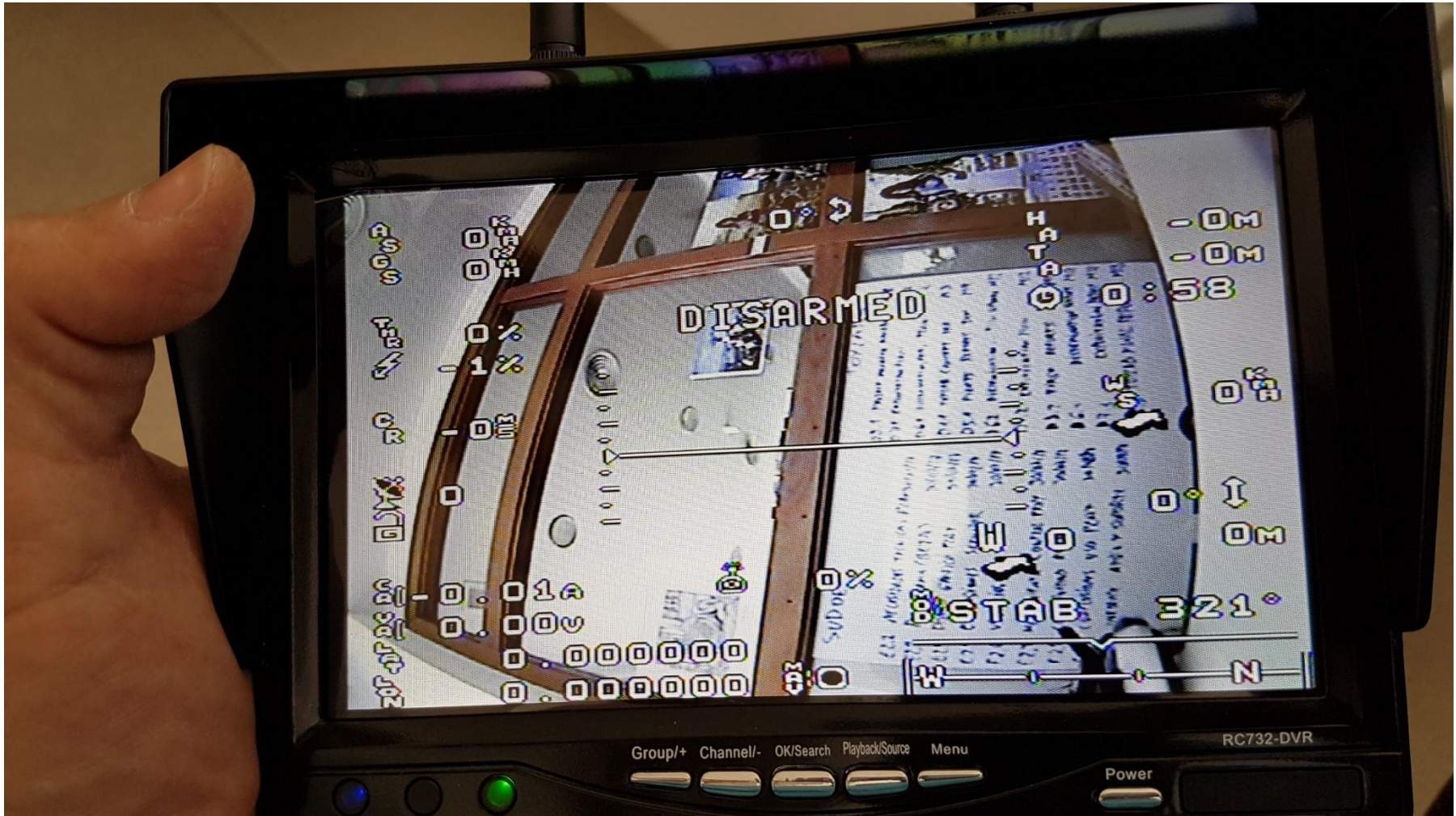














# Customization Phase

## AIJU samples





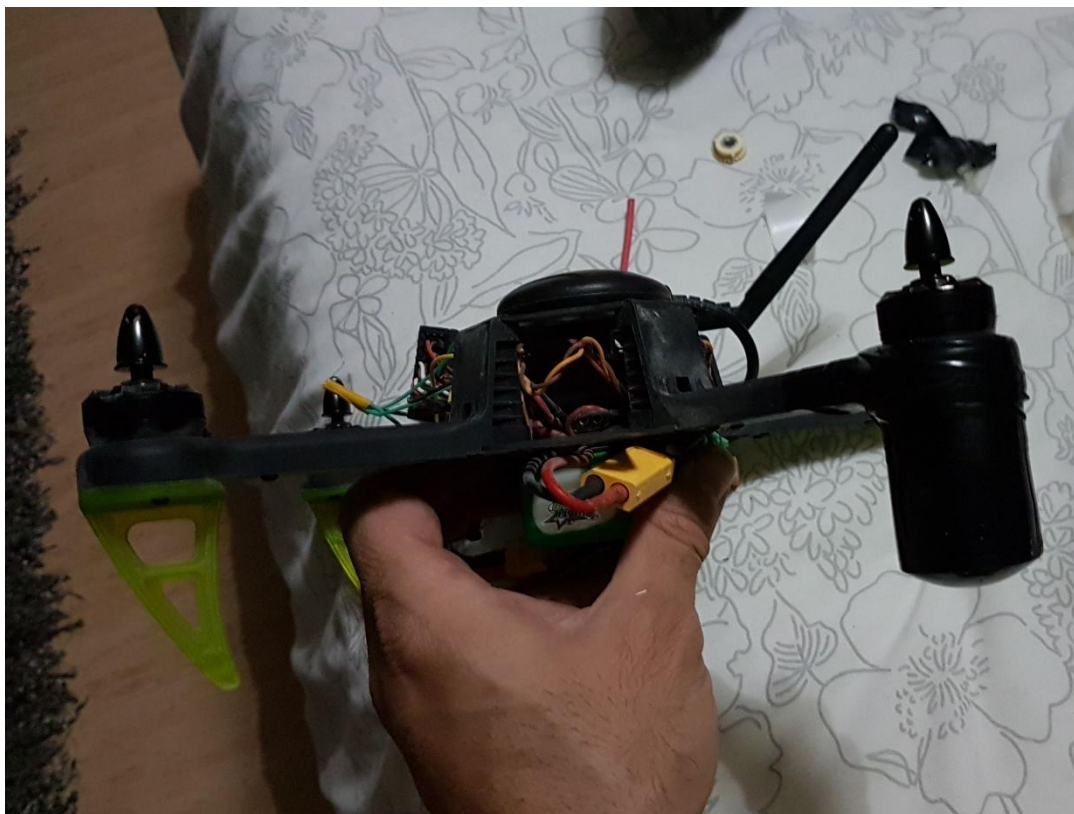
**Google Drive>4 Outputs>8 - Module of First Person View > Support Screen  
BASED ON THINGIVERSE DESIGN**





<http://electronicarc.com/catalogo/maleta-abs-para-mini-quadcopter-250-class-p-2045.html>







# NEXT STEP PROPOSE YOUR OWNS!