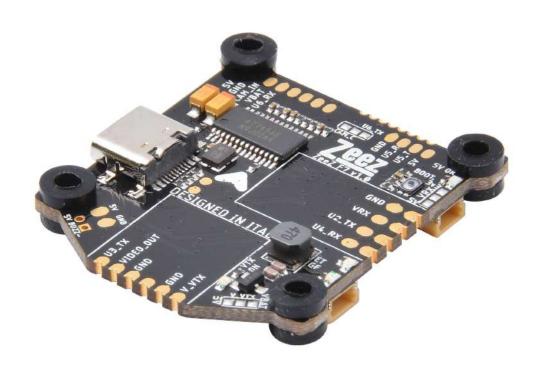


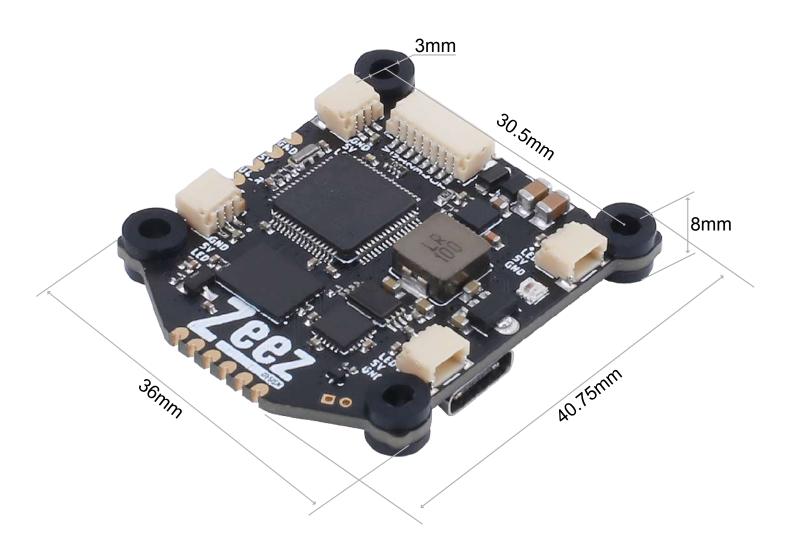
# **ZEEZ F7**

# **USER MANUAL**



#### **TABLE OF CONTENTS**

- Dimensions
- Introduction
- Specification
- Connection diagram
- Betaflight settings





Thanks for purchasing the Zeez F7 flight controller.

This board is being designed and developed by pilots for pilots. Zeez Design project was born in Italy in early 2016 from FPV racing pilots and students of the Engineer University of Bologna that wanted to develop their own gear for racing drones.

The ZeeZ F7 flight controller is our first product. In this project we thought about the most common drama that happen in FPV quad...wires break and big difficulties to stack all electronics in our quad.

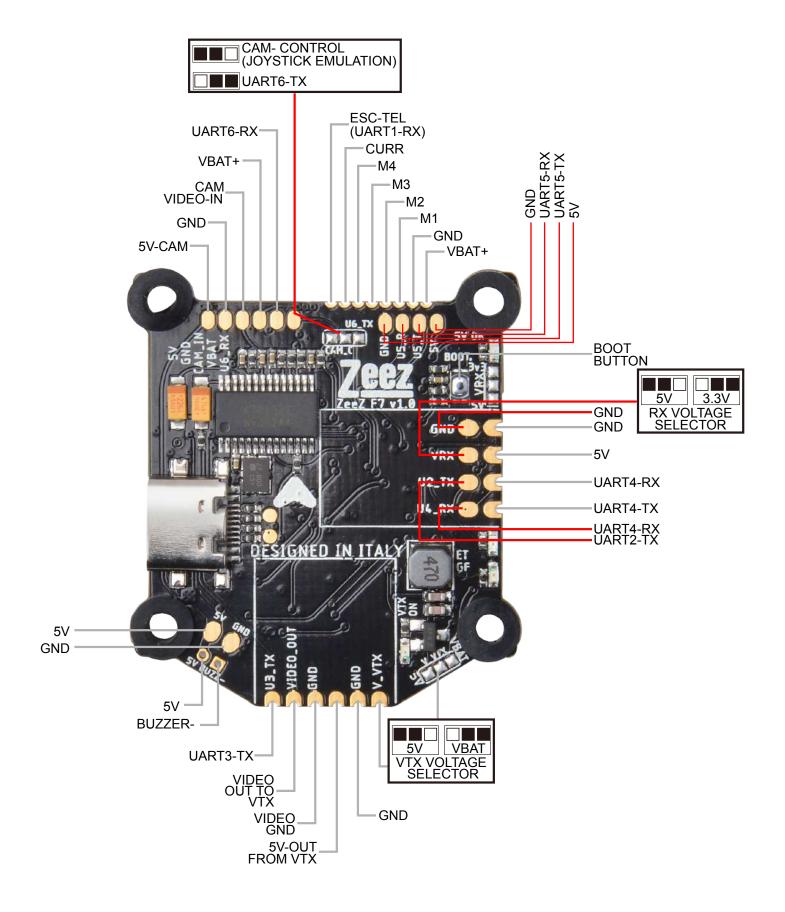
Here we have really easy assembly (and if you are using some VTX or RX you just have the wires from the FC to the FPV Cam) that will result in clean and low profile stack.

#### Specification:

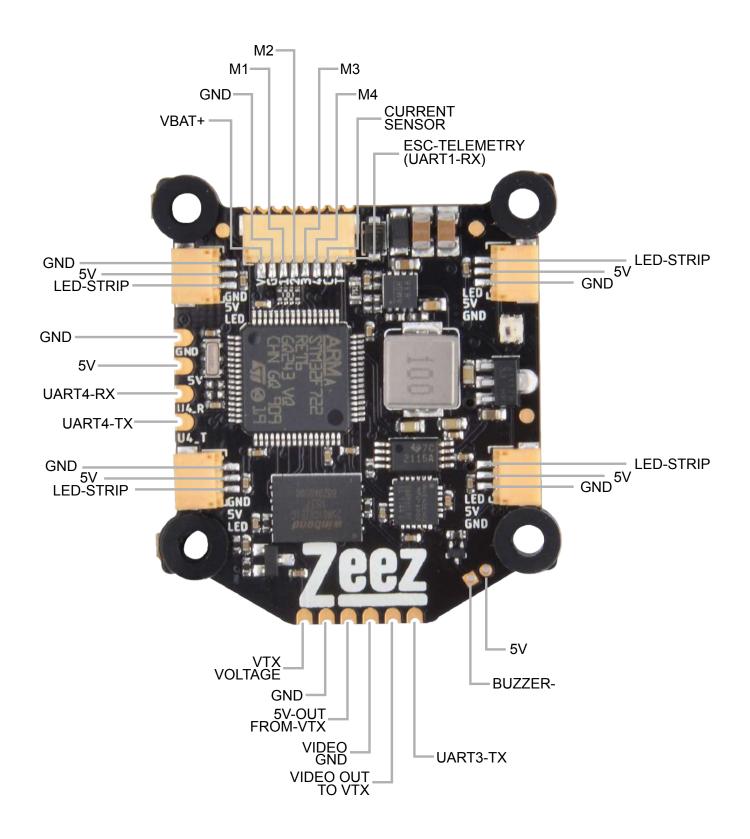
- Up to 8S input (max 36V)
- •5V BEC up to 3A continuous
- •STM32F722 MCU
- MPU6000 Gyro/ACC for smooth performace
- •128MB OnBoard flash
- OSD chip Onboard
- •6 available UARTS
- VTX switch to control the ON/OFF of the VTX directly from your transmitter
- LC Filter for 5V VTX
- USB Type C connector
- Onboard RGB LED distribution for clean wiring to the LED on the arm of the quad.
- Onboard RBG LED
- Notch desing on sides and in the front of the FC for better fitting on the frame.



#### TOP connection:



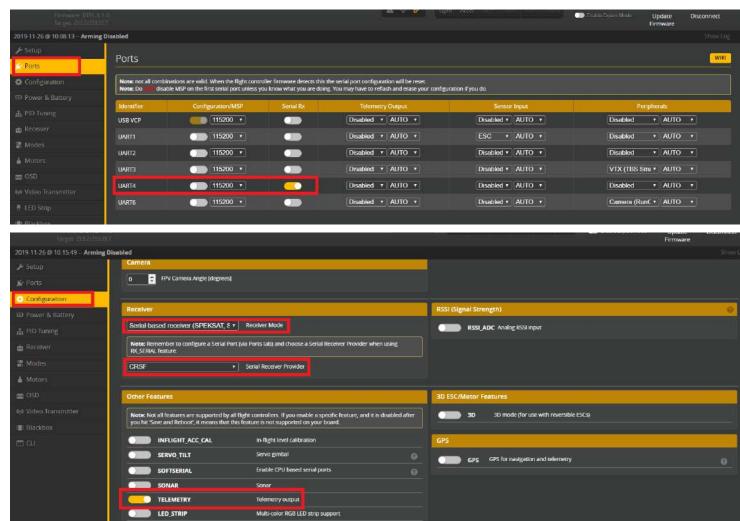
#### **BOTTOM** connection:

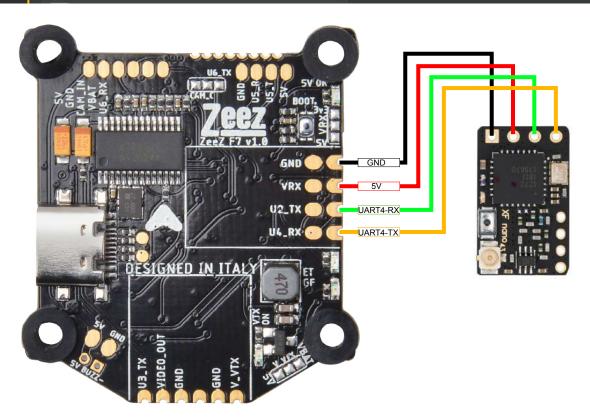




# Receiver chapter:

# TBS Crossfire:



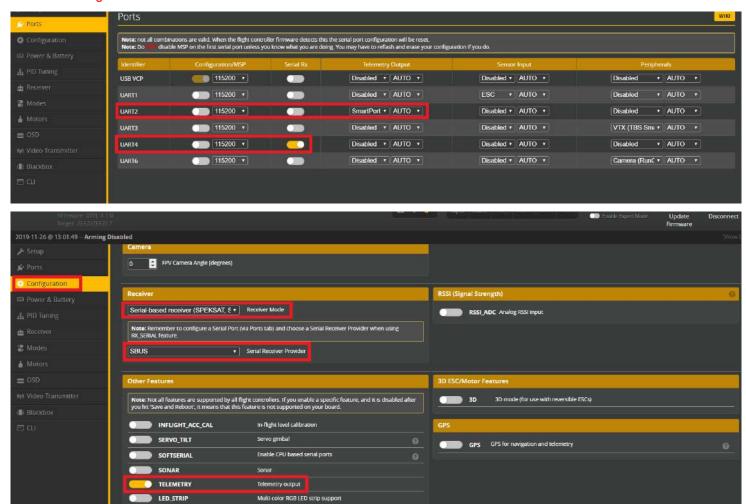


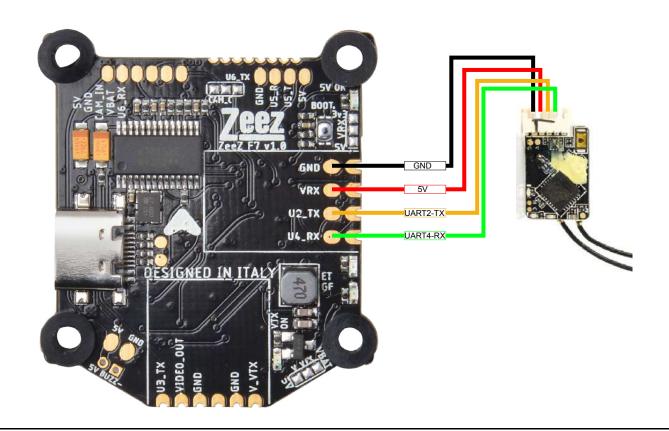


# FrSky RXSR:

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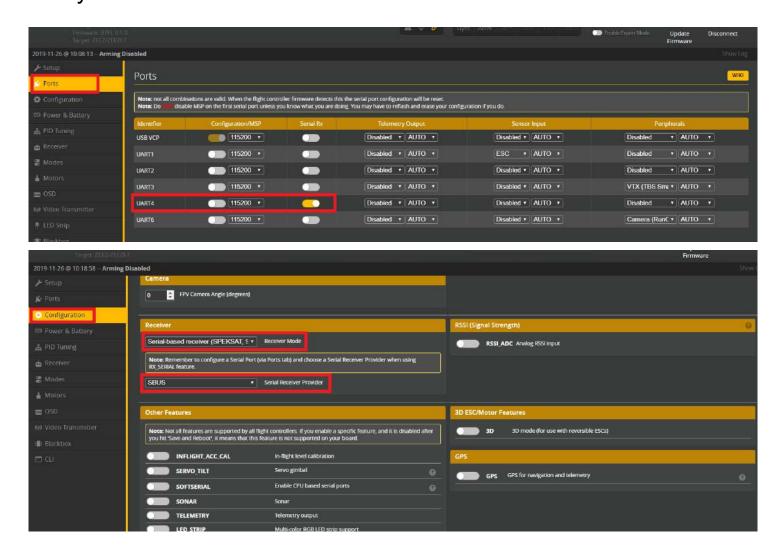
Don't forget to make the solder bridge in the left side of the Solder jumper near the RX pad to select 5V as voltage for the RX

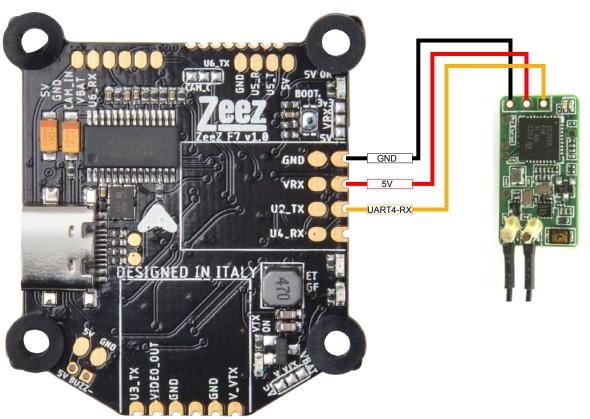






# FrSky XM+:



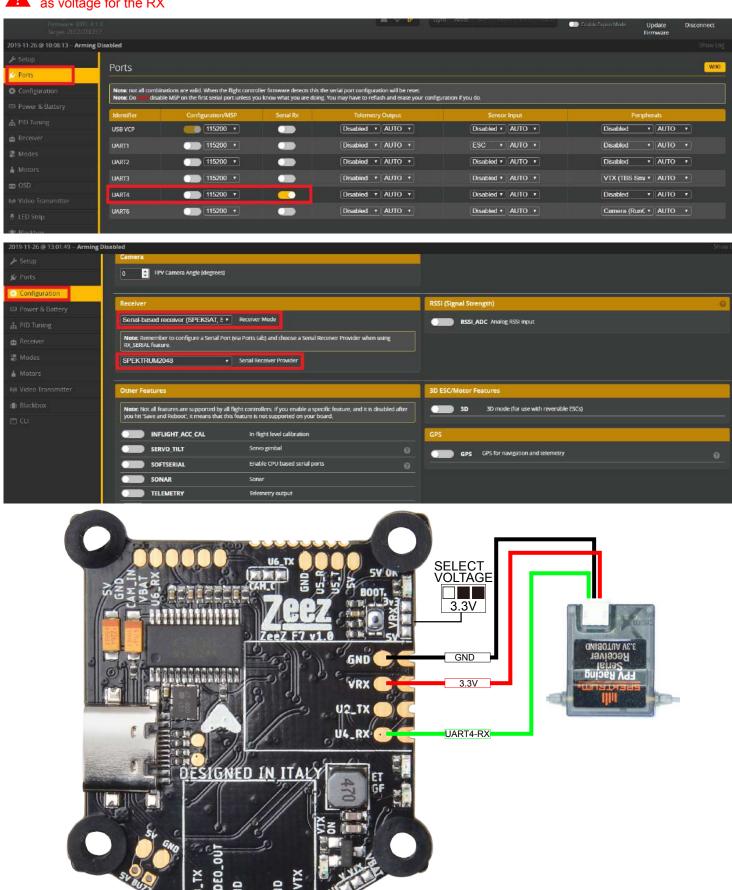




# Spektrum DMSX FPV:



Don't forget to make the solder bridge in the right side of the Solder jumper near the RX pad to select 3.3V as voltage for the RX

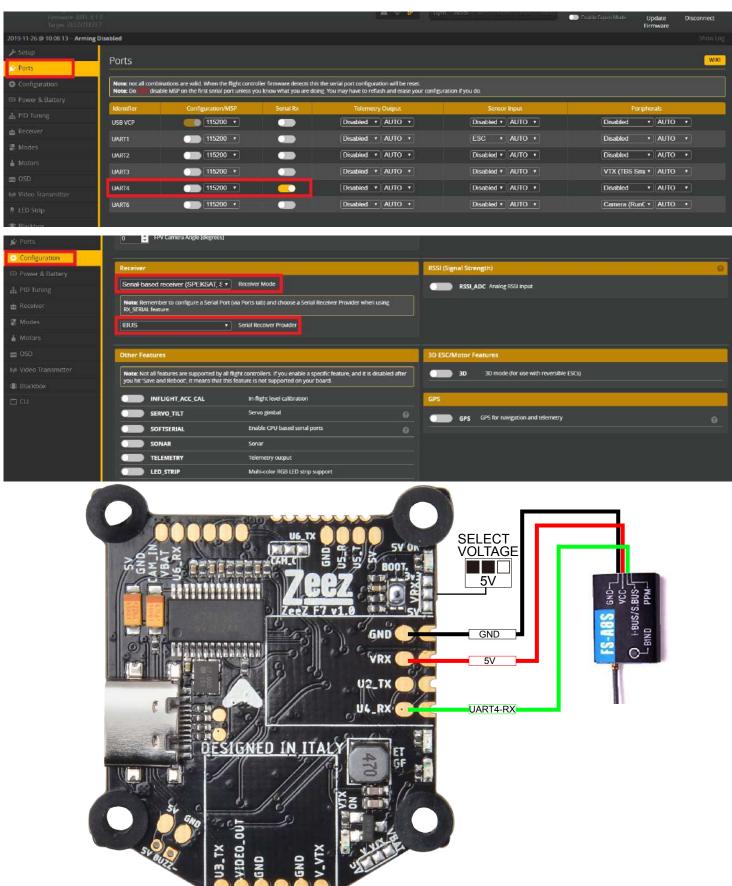




# FlySky A8S:

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Don't forget to make the solder bridge in the left side of the Solder jumper near the RX pad to select 5V as voltage for the RX





# VTX chapter:

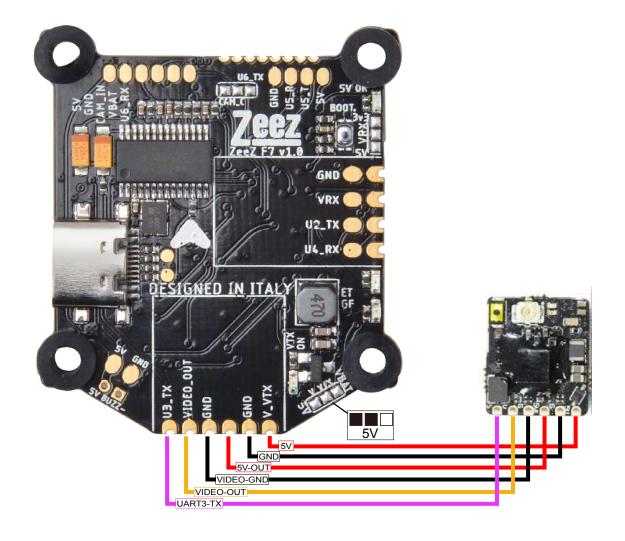
#### 5V VTX:



Assign the AUX you prefer from your radio to turn ON and OFF the VTX from the transmitter from USER1 mode in BetaFlight. If USER1 is not active the VTX will remain OFF.

Don't forget to make the solder bridge in the left side of the Solder jumper near the VTX pad to select 5V as voltage for the VTX





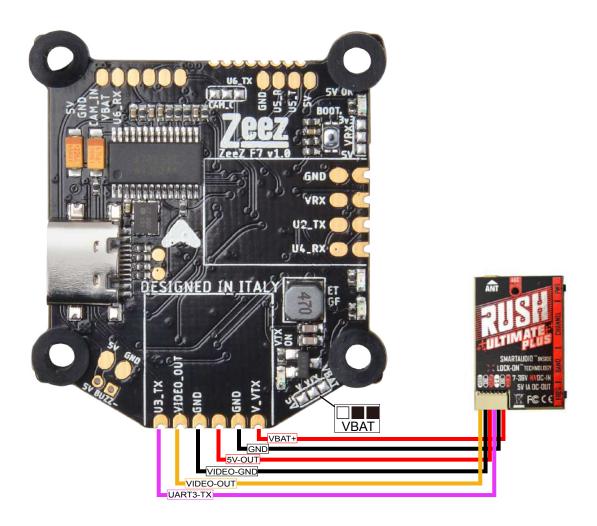
#### **HV VTX**:



Assign the AUX you prefer from your radio to turn ON and OFF the VTX from the transmitter from USER1 mode in BetaFlight. If USER1 is not active the VTX will remain OFF.

Don't forget to make the solder bridge in the right side of the Solder jumper near the VTX pad to select VBAT as voltage for the VTX





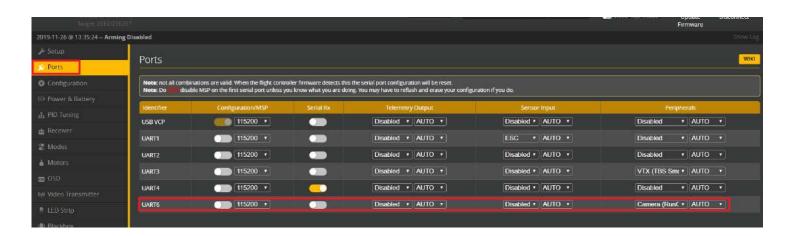


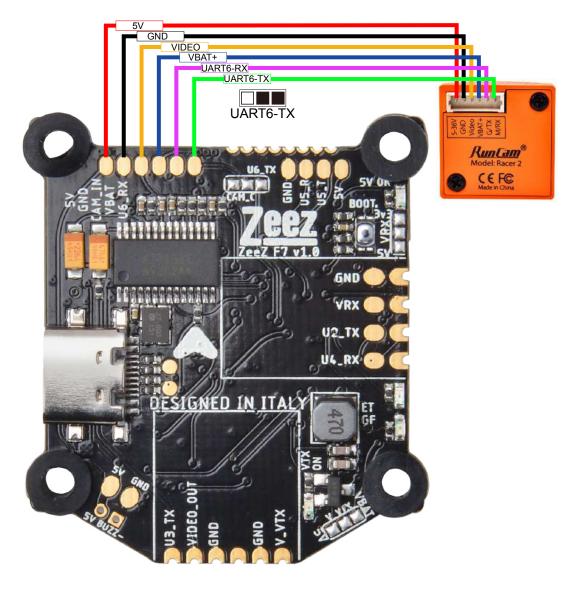
# Camera chapter:

#### **UART** control Camera:

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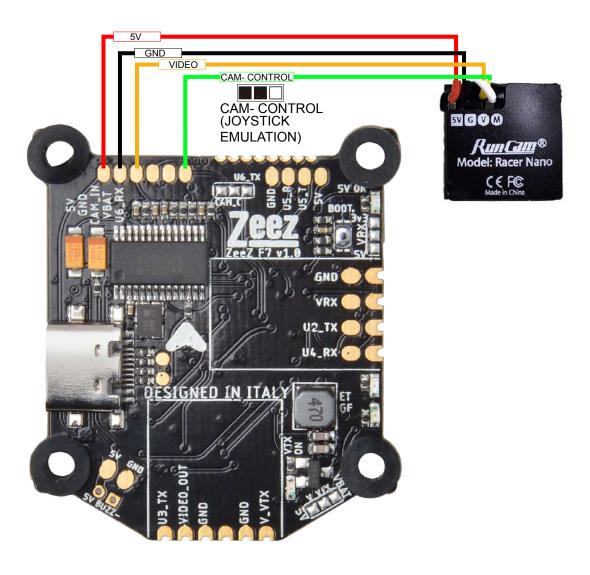
Don't forget to make the solder bridge in the right side of the Solder jumper near the camera pad to select UART6-TX





# Joystick Emulation Camera Control:

For Joystick emulation everything is already set up in the firmware, you just need to wire your camera as shown below and don't forget to make the solder bridge in the left side of the solder jumper.





# LED Betaflight setup and connection:

