

# SN-GIMBAL



**The image shown here is indicative only. If there is inconsistency between the image and the actual product, the actual product shall govern.**

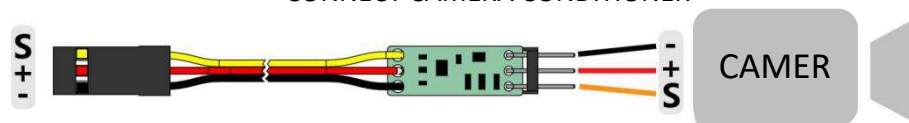
## 1. INTERFACE

CAMERA CONTROL	
Con2 (PWM signal)	FIREFLY2 REC video
Pitch(PWM signal)	Camera pitch angle
Con1 (PWM signal)	FIREFLY2 take photo
—	GND
UART (upgrade FW & set parameter, 115200 8N1)	
TX	/
RX	/
—	GND
POWER	
—	/
+	8-12v
video	Video out
CAMERA BOARD INTERFACE	
video	Connect to camera video out
Tape	Camera Video record
Photo	Camera photo
5V	Camera power
Batt	Battery power
GND	/

### ➤ WORK WITH SN\_L FC

- ① Make sure your OSD back-level is 125.
- ② If OSD can not work normally please connect the video conditioner.
- ③ Check your firmware version is support aat; The latest firmware v6.0 can open the aat function directly in the OSD setting menu.

CONNECT CAMERA CONDITIONER



## 2. HOW TO WORK

- ① work vol: 8-12V
- ② pitch angle range:  $\pm 45^\circ$   
roll angle range :  $\pm 45^\circ$   
\*Camera shake if it exceeds the angle range

## ③ check C.G(center of gravity)

SN GIMBAL support FIREFLY2, if you use other camera , please Re-weighting.



## ④ LED status

	FLASH	ON	OFF
RED LED	sensor ok	sensor error	/
GREEN LED	voltage ok	voltage exceeds threshold	/
BLUE LED	/	Camera power ok	Camera power error

### 3. HOW TO CONTROL

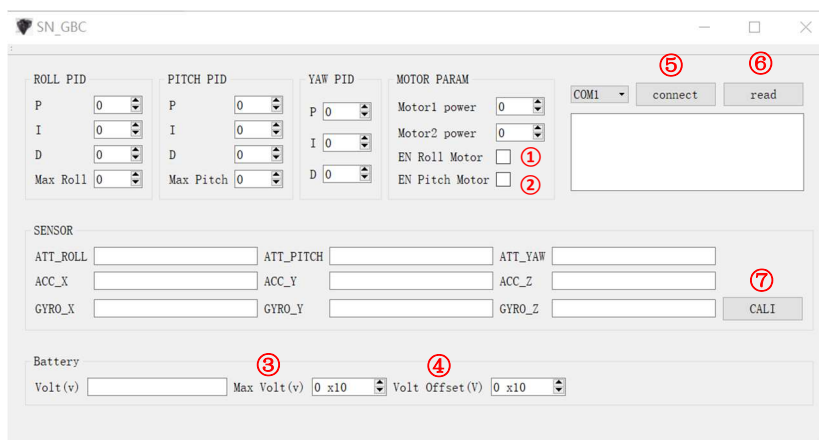
## ① Control the FIREFLY2 to take photo, video

Connect a RC channel to <CON1> and <CON2>, then you can control it by flip a switch channel.

## ② Connect to mavlink port

Gimbal will enter follow mode when you connect to mavlink port. Will follow the attitude change of the aircraft.

### 4. HOW TO USE GCS



## ① Enable Roll Motor power.

## ② Enable Pitch Motor power.

## ③ Voltage Threshold: if you set 120, it means that max input voltage is 12.0v.

- ④ Calibrate voltage value.
- ⑤ Connect button.
- ⑥ Read button, read param from gimbal.
- ⑦ Calibrate level.

*When calibrating the level, please disable the motor power and then place the camera platform horizontally.*