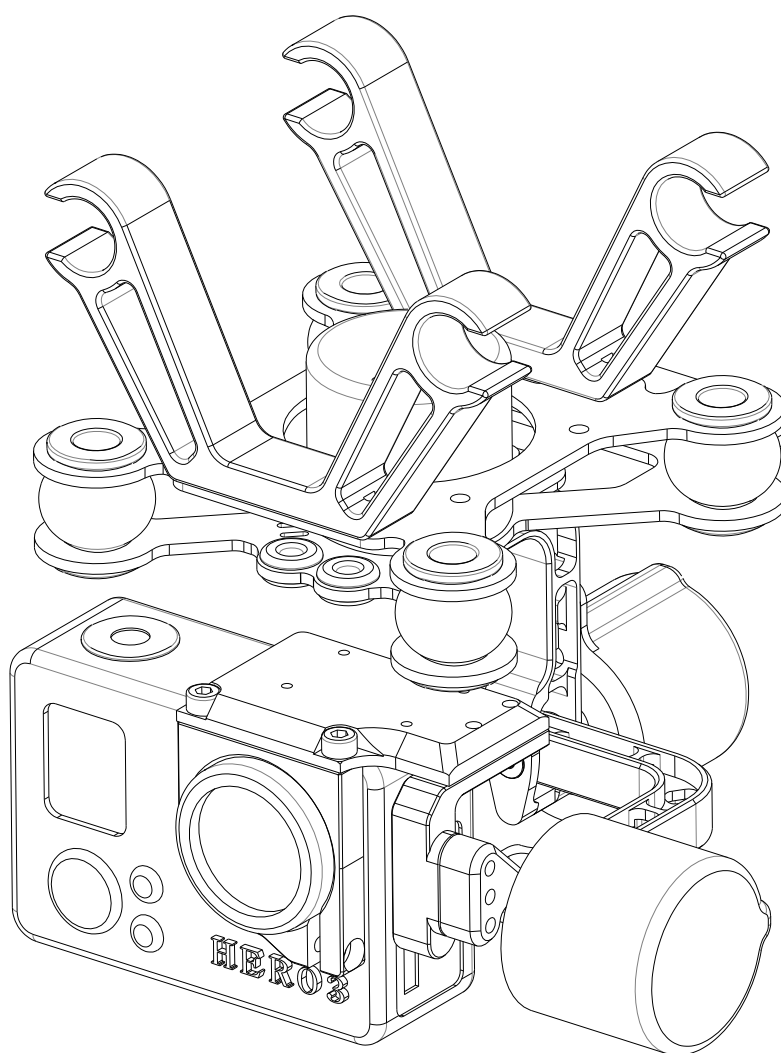


Geocalla G3-3D gimbal

# User Manual v1.0

2014.12.01



## Warning & Disclaimer

G3-3D gimbal is calibrated before delivery, no adjustment or modification to the gimbal is allowed.  
Ensure the camera is mounted to the gimbal before powering the aircraft.

H3-3D gimbal is finely calibrated according to the specified camera model and lens before the delivery. User does not need to perform extra calibration. Do not attempt to modify the gimbal or mount extra component/device (such as filter, lens hood, etc.) to the camera; be sure to use our approved battery; otherwise it may affect the performance of the gimbal.

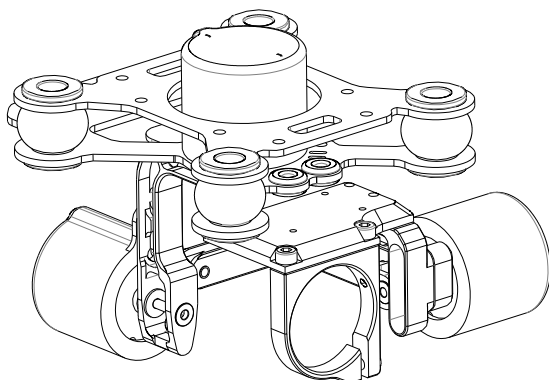
Make sure the flight control system is operating in the safest manner. We strongly recommend customers to use power supply from R/C system or flight pack battery, and keep children when calibrating and configuration the gimbal. Observe the procedures contains in this manual to mount and connect gimbal on your aircraft. User of this product shall respect the AMA' s National Model Aircraft safety Code.

Our Innovations has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. Our assumes no liability for damage(s), injuries or legal responsibilities incurred directly or indirectly from the use of this product.

No part of this product or manual shall be reproduced in any form without the prior written consent or authorization of Our Innovations. No patent liability is assumed with respect to the use of the product or information contained herein.

# In The Box :

Gimbal X 1



Vibration Absorbers 30 ° X 4 (Grey)



Vibration Absorbers 40 ° X 4 (Black)



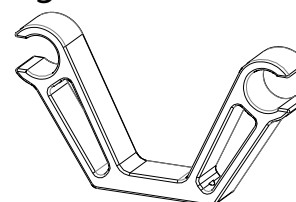
Vibration Absorbers 50 ° X 4 (Red)



Gimbal Control Unit, GCU X 1



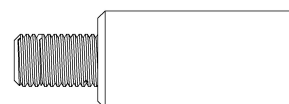
Camera securing bracket X 2



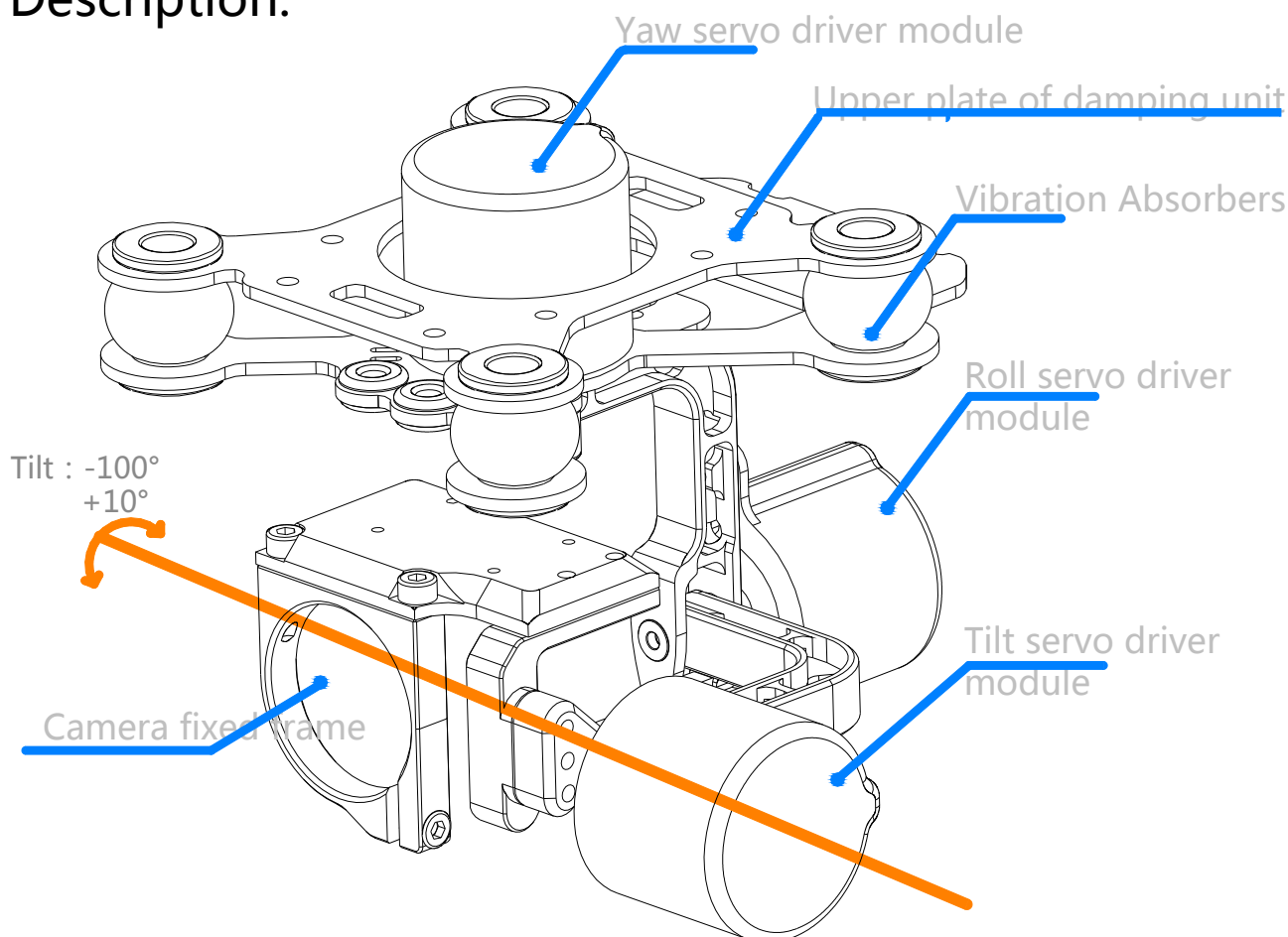
Cup head hex socket screws (M2.5x5)X8



Screw for Gopro4 X 1



## Gimbal Description:



# GCU Description:

Input Voltage Range :

LiPo (3S~5S , 10V ~ 23V)

Receiver knob  
channel ( Don't

need to be the same  
frequency with  
receiver )

JST Power Plug



Do not use the excess of the  
prescribed scope power  
supply, or else will cause the  
controller to burn out.

Signal output

Pitch  
YAW  
GND

Indicator light

Indicator light feedback signal :

Calibrating : ● ○ ● ○ ● ○ ● ○

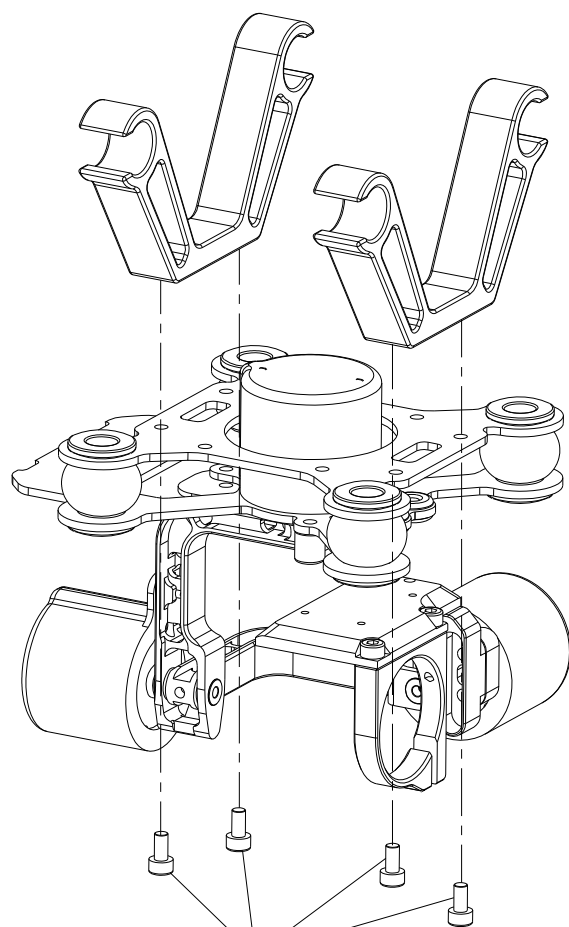
Working :

Failure :

GUI

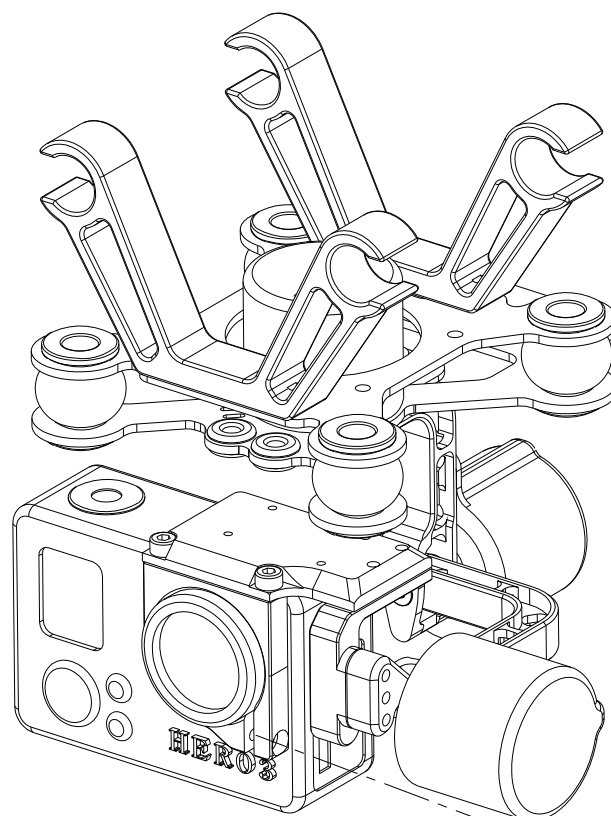
Gyroscope signal socket(4P) Encoder signal socket(4P) Motor signal socket(6P)

## Install camera securing bracket



Cup head hex socket screwsp  
(M2.5x5)

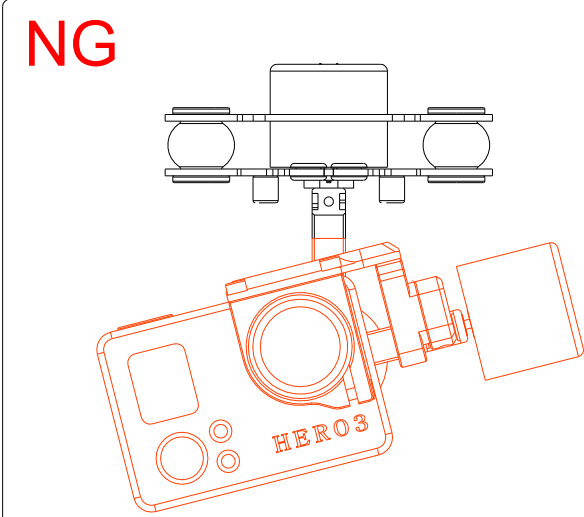
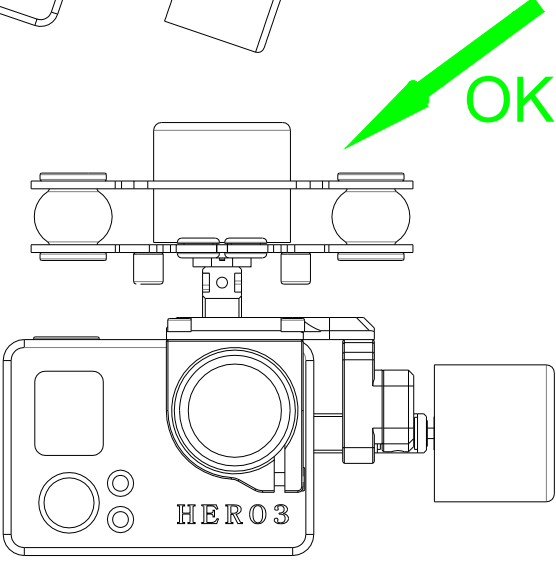
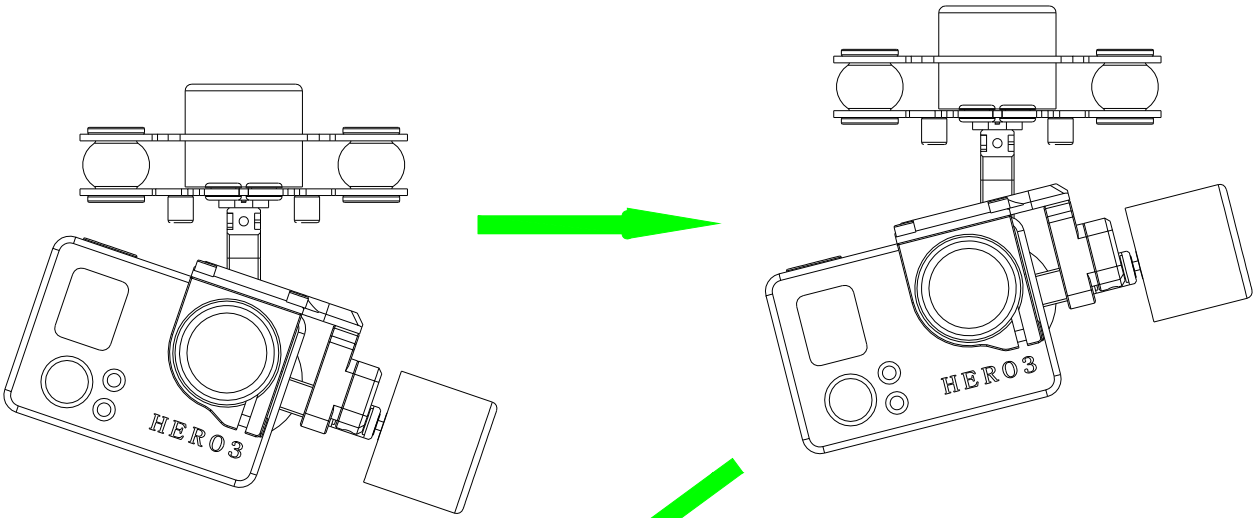
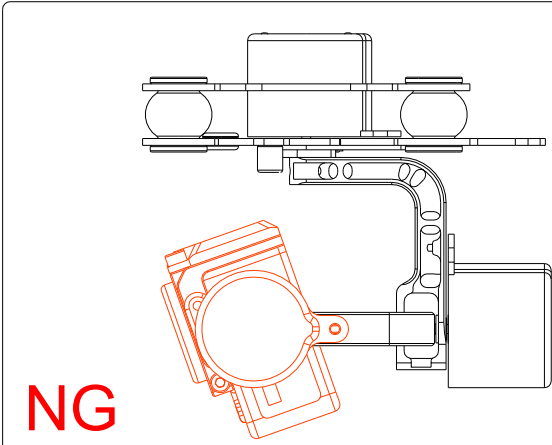
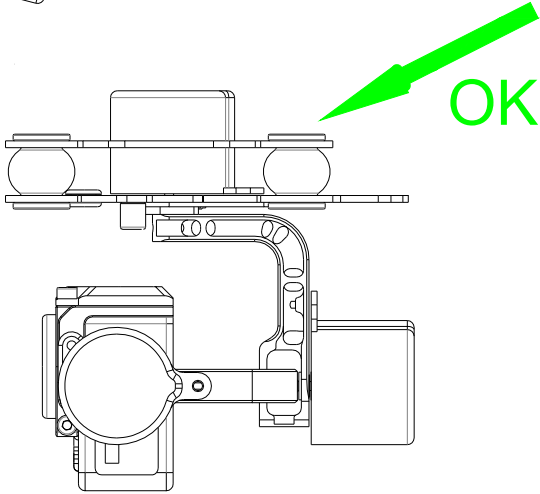
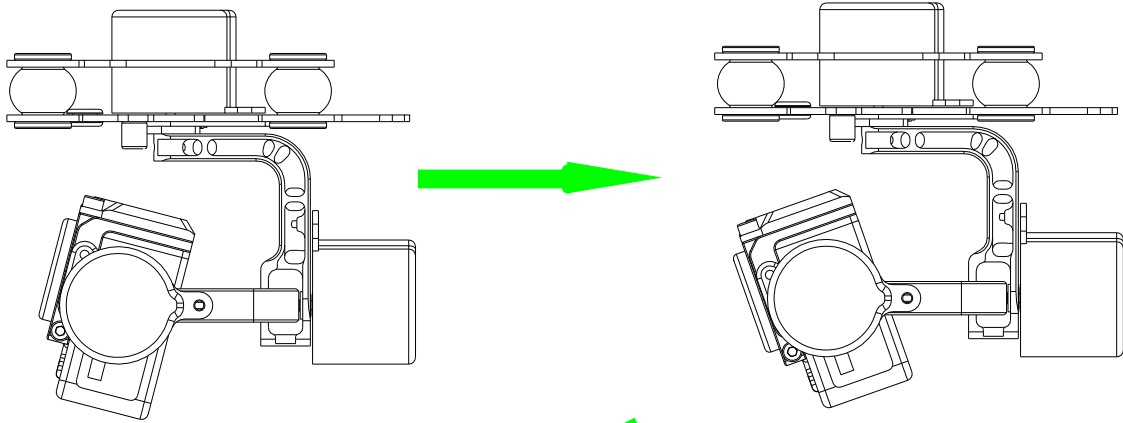
## Install camera

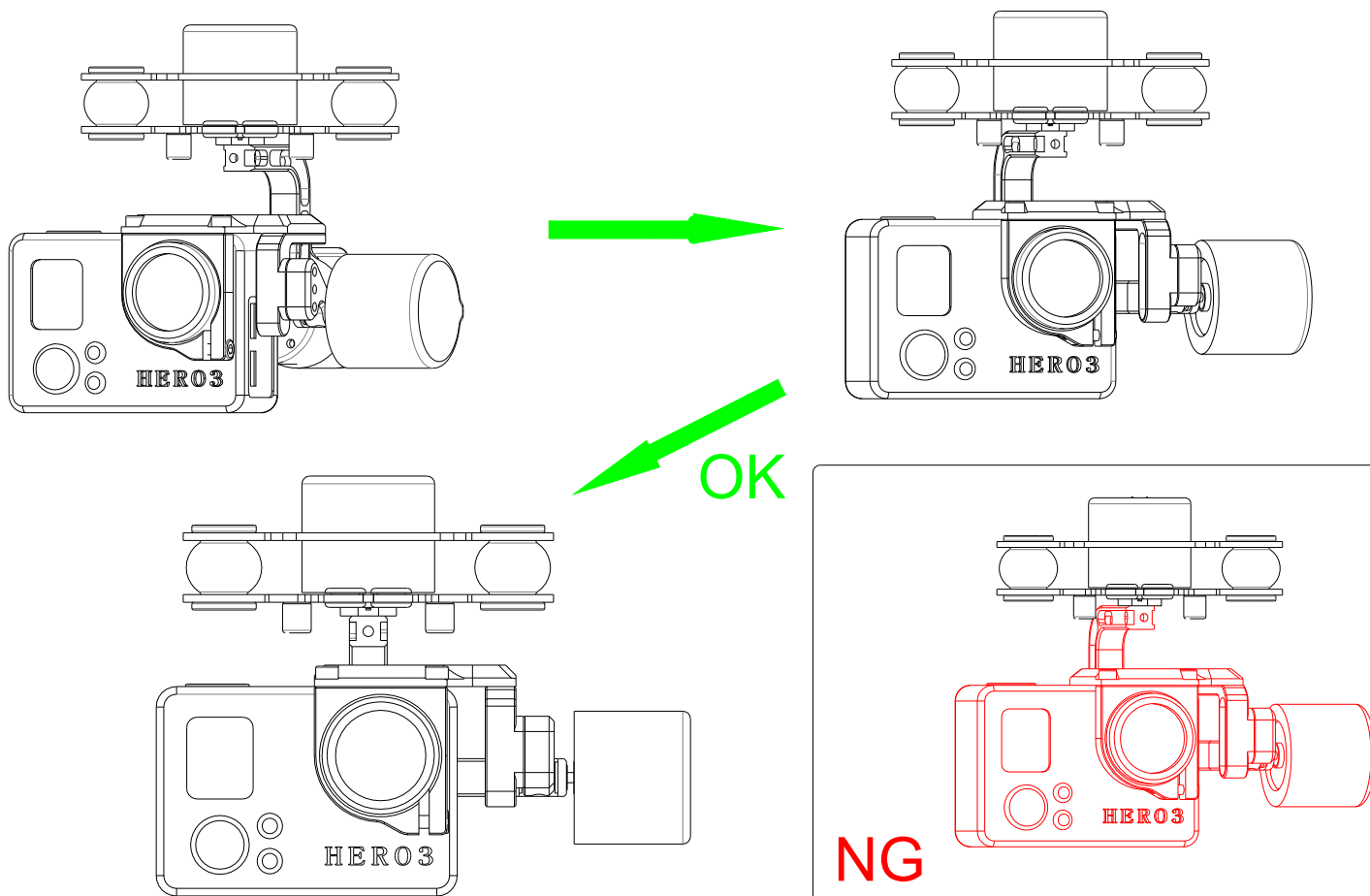


- 1.Camera embeds into the lens frame;
- 2.Adjust and screw down the screws. Caution : When install the camera, You need to use a certain strength to push the camera lens into the camera fixed frame. Don't too hard so as not to damage the lens.

Cup head hex  
socket screwsp  
(M2.5x5)

Gimbal automatic calibration status:





## Gimbal control:

### 1. G3-3D support pitch axis control.

Please connect the receiver with gimbal controller according to the picture showing above. Power on the gimbal,

when gimbal indicator light flashing, wait for 3 seconds, then we can control pitch angular velocity of the movement through the stick.

### 2. Gimbal roll axis level calibration

If the roll axis is not level after power on, you can correct the position by following these steps:

a. Connect the gimbal with receiver gas channel, electrify the receiver and turn on the transmitter then push the gas to maximum.

b. Adjust the camera and let it be on the level position, electrify the gimbal when gimbal indicator light flashing, wait for 3 seconds this operation can be done.

## Specifications

General	Features		1.3-axis high performance gimbal. 2.Effortless Setup. 3.Solo used. 4.Totally-enclosed motor, is not affected by iron filings, sand and dust. 5.When charging, change SD card or battery you don't have to remove the camera. 6.Wide range of voltage, from 23V to 10V.
Peripheral	Supported Camera	GoPro3, GoPro3+ Black and Sliver and GoPro 4	
	GCU Input Power	3S~5S LiPo (10V~23V)	
Mechanical & Electrical	Gimbal Operating Current	<ul style="list-style-type: none"><li>Static current: 100mA (@17.4V)</li><li>Dynamic current: 300mA (@7.4V)</li></ul>	
	Gimbal Input Power	3S~5S LiPo (10V~23V)	
	Operating Temperature	0°C ~ 60°C	
	Gimbal Weight	166g	
	Gimbal Dimensions(With Damping Unit)	94mm X 105mm X 90mm	
	GCU Weight	12g	
	GCU Dimensions	44mm X 21.5mm X 9.3mm	
Performance	Controlled Angle Accuracy	Tilt/Roll: $\pm 0.05^{\circ}$ ; Yaw: $\pm 0.05^{\circ}$	
	Controlled Rotation Range	Tilt axis control: -100 ~ +10°	