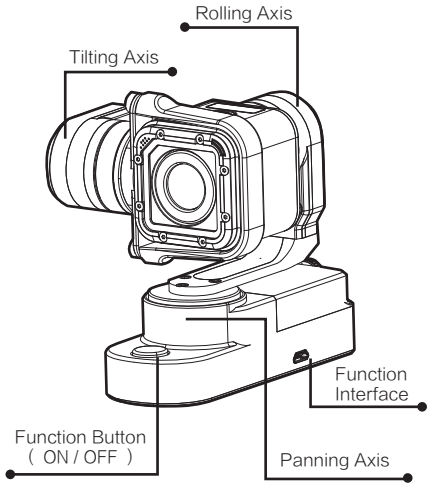
Wearable Gimbal 3 Axis

FY WGS 3 Axis Wearable Gimbal is compatible with Gopro HERO4 Session

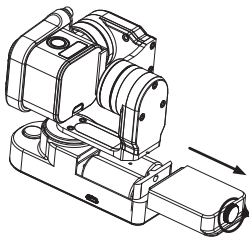
1 Introduction

FY WGS is a lightweight, yet feature-rich, wearable 3 axis gimbal capable of capturing immersive and fully stabilized footages. It is compatible with GoPro HERO4 Session and other cameras with the same dimensions.

The FY WGS is a miniaturized version of the best-selling FeiYu gimbal, offering exceptional stabilization technology in a wearable form factor for action cameras. A GoPro T-Clamp adapter is packaged with every FY WGS. Users can attach the gimbal to any accessories supporting the GoPro three-prong mount. The FY WGS also contains two 1/4" tripod mounts on its gimbal body, allowing the gimbal to be mounted in different orientations to all universal tripod screw mount accessories (including helmets, bikes, selfie sticks and other accessories).



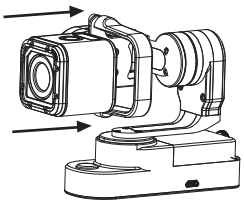
2 Install



STEP 1

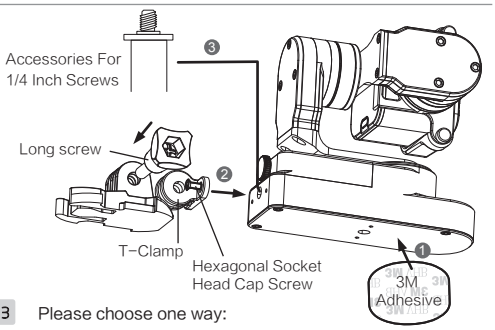
Remove the screws on the battery compartment, insert two16340 batteries and tighten the screws.

⚠ WARNING !
Do not power on the gimbal before completing all the installation steps.



STEP 2

Mount the camera carefully to the mounting bracket and tighten the screws.



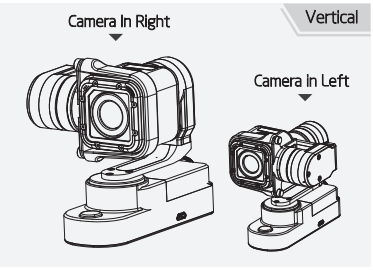
STEP 3 Please choose one way:

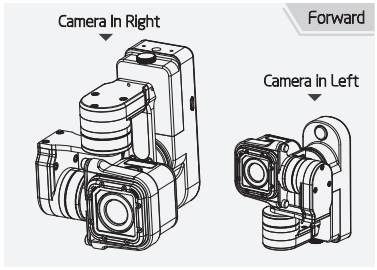
1. Use the 3M Adhesive to fix the bottom of the Gimbal.
2. Use GoPro Accessories, mount the provided T-clamp to the side or the bottom of the gimbal. Attach T-clamp to any accessories supporting the standard GoPro three-prong mount.
3. The gimbal can also be mounted directly to other accessories using the standard 1/4" tripod mount. Tighten all screws and ensure it is firmly mounted before using the gimbal.

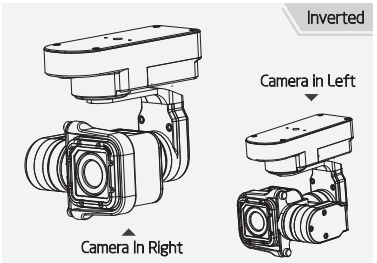
POWERING ON / OFF

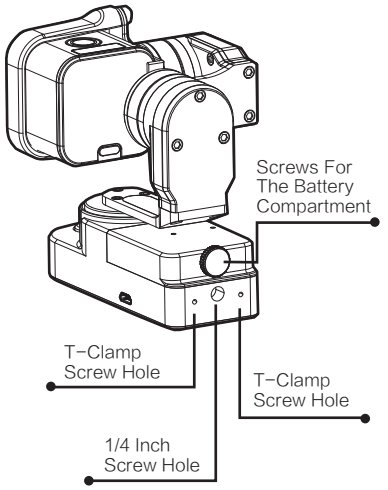
Power on: Ensure the camera is mounted securely, then hold down the function button for 2 seconds to turn on the gimbal.

Power off: Hold down the function button for 3 seconds to turn off the gimbal.

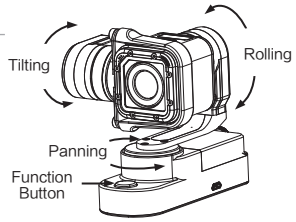








3 Operation



Function Button Switch between different operating modes by pressing the function button. The LED light will flash distinctively to indicate different operating modes.

Operating Modes and Functions

Mode #1 - Panning Mode Camera is permitted to pan left or right. Vertical tilts or rolls are restricted.

Mode #2 - Panning and Tilting Mode Camera is permitted to pan left or right and tilt up and down. Rolls are restricted.

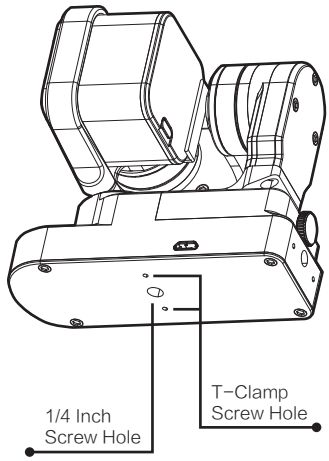
Mode #3 - Lock Mode Camera stays in its current orientation. All panning, tilting and rolls are restricted.

Inversion Mode Pressing the function button three consecutive times in any operating mode, the gimbal will switch to the Inverted Mode (Allowing the user to flip the gimbal orientation upside down). Pressing the function button three more times while in Inverted Mode to switch back to the original orientation.

Manual Pulling Locking After the gimbal has been powered on for eight seconds, the tilt angle can be adjusted manually in the Panning Mode and the Lock Mode. Adjust the title angle to the desired position and wait for 0.5 second until the gimbal registers the new angle.

Reset Pressing the function button four consecutive times will reset the gimbal to initial orientation.

Tilt and Level Calibration By using the optional FY remote control, tilt and level can be adjusted without connection to a computer. For more information, please refer to FY remote control section in the instruction manual.



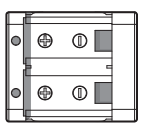
Function Button Quick Reference

Operation	LED Status	Function Explanation
Single Tap	LED Flashes Once	Panning Mode
Double Tap	LED Flashes Twice	Panning and Tilting Mode
Triple Tap	LED Flashes Once	Inversion Mode
Quadruple Tap	LED Flashes Once	Reset

Operation	LED Status	Function
Long Press For 1 Second	On Constantly	Lock Mode
Long Press For 2 Second	Turn On And Switch To The Mode's LED Status	Power On
Long Press For 3 Second	Turn Off After A moment	Shutdown

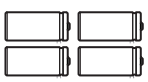
* When the gimbal is in the Inverted Mode it will revert back to the original orientation after three press.
When the battery is low, the gimbal will make three beeping sound and automatically shut down itself.

4 Accessories



Charger

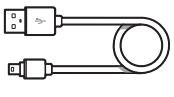
Input: DC 5V Min 800mA
Output: DC 4.2V



Rechargeable Battery
Type: 16340

USB Connector

M 1.5 Allen Key



USB Cable

HexagonalSocket HeadCap Screw
M2 * 6mm

Curved Adhesive Mounts

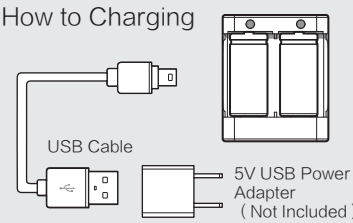
T-Clamp

Quick-Release Buckle

Long screw

3M Adhesive

How to Charging



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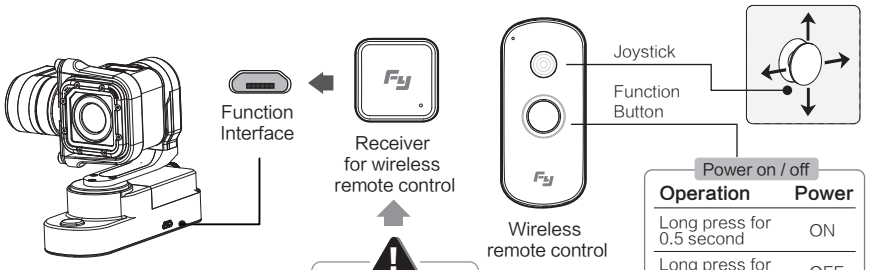
FY Remote Control (Optional Item)

With the remote control, you can switch the gimbal mode or adjust the angle from a distance.



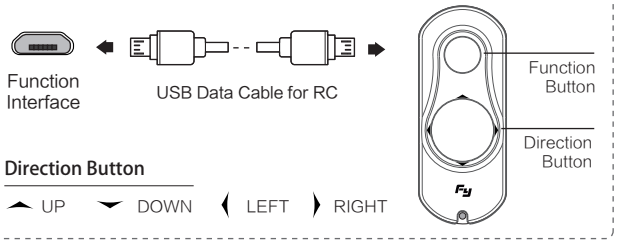
Please install the receiver properly before power on

Tip：The Remote Control will be automatically powered off to save battery if there is no operation within three minutes.

Power on / off

Operation	Power
Long press for 0.5 second	ON
Long press for 3 seconds	OFF

Wired remote control



Remote Control Operation Instructions

Operation	Explanation	Remark
Single Tap	Mode #1 Panning Mode	
Double Tap	Mode #2 Panning and Tilting Mode	
Triple Tap	Inversion Mode	Triple tap again,exit inversion mode into original status
Quadruple Tap	Reset	
Tap Button Six Times	Calibration Using Remote Control	Single tap ,exit calibration and enter standby. Wake the gimbal by pressing the function button once again
Tap Button Seven Times	Match Code Mode Wireless RC	Match code when connecting properly but still control in fail or change the receiver/wireless remote control.
Long Press For 1 Second	Mode #3 Lock Mode	
Long Press For 3 Second	Turn Off The Gimbal	

Note: The function button on the Gimbal will be disabled after connect the Remote Control

Wireless Remote Control

Steps to connect wireless remote control:

1. Open the wireless remote control.
2. Install the receiver for wireless remote control: Insert the receiver for wireless remote control into the function port of gimbal .
3. Open the gimbal: Long press the function button on gimbal for two seconds to turn on the gimbal.
4. Use the wireless remote control to control the gimbal.

Charging Connect the Micro interface of wireless remote control with 5V charger by USB cable.

Remote Control Distance 15 meters in an open environment.

Match Code Keep the gimbal powered on, restart the remote control and connect the receiver of RC to the gimbal, press the remote control function button for 7 times in 5 seconds, if the indicator on the RC flashes 5 times it means the receiver and the transmitter of RC match successfully, then customer can control the gimbal by the RC.

▲ RC needs to be match code whenever the following situations：

（1）Connecting properly but still control in fail. （2）Change the receiver or wireless remote control.

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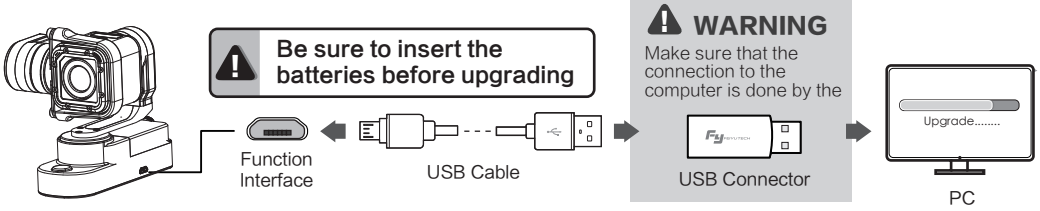
Firmware Upgrade



Firmware Upgrade Instruction

Please visit the official website of Feiyu Tech: www.feiyu-tech.com to download the USB driver, firmware upgrade software and the latest firmware. Unzip the compressed file locally to your computer. Refer to the connection diagram on how to connect the gimbal with the computer. Please follow the instructions inside the firmware upgrade package carefully, or there will be a risk of rendering the gimbal inoperable.

Attention : Please make sure that the connection to the computer is done by the USB connector.

Tilt and Level Calibration

The tilt and level settings can be calibrated through the use of the configuration software. User can adjust the tilt and diagonal rotation in small intervals to better adapt to his/her filming scene. Before any calibration, please insert the batteries into the gimbal and refer to the connection diagram to connect the gimbal with the computer.

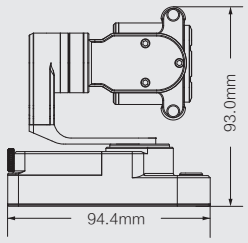
Attention : Please make sure that the connection to the computer is done by the USB connector.

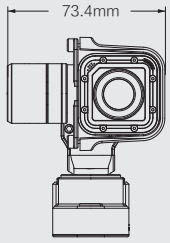
Panning Speed Adjustment

The panning speed can be adjusted through the use of the configuration software. User can adjust to the desired panning speed to better adapt to his/her filming scene. There are three settings available: “SLOW”, “NORMAL” and “FAST”. Default setting is “FAST”.

Attention : Please make sure that the connection to the computer is done by the USB connector.

Parameters





Vertical Tilting Angle	320°
Rolls Angle	100°
Horizontal Panning Angle	320°
Tilting Increments	2° /S ~ 75° /S
Panning Increments	3° /S ~ 150° /S
Weight	185.5g (Without Batteries & Camera)
Usage Time	3 ~ 4 Hours

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Initialize The Gimbal

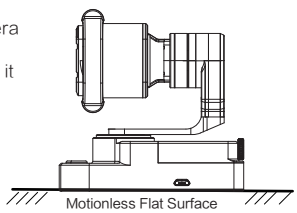
FY WGS needs to be initialized whenever the following situations are observed after power on

1. The tilt angle is not leveled with the horizontal surface.
2. The roll angle is not parallel to the horizontal surface.
3. When the gimbal is stationary, the camera does not stay stationary.

Initialization Instructions

1. Ensure gimbal is fully assembled and camera is installed properly.
2. Place the gimbal on a flat surface and keep it stationary.
3. Power on the Gimbal.
4. Wait for the gimbal to finish its initialization before resuming the use of the gimbal.

Note: When initialization is completed, the LED light will quickly flash.



ATTENTION

- ▲ Please assemble the gimbal in accordance to the diagram provided.
- ▲ Please upgrade the firmware and configuration settings with the provided USB data cable and USB cannector.
- ▲ Please charge the battery with the provided battery charger.
- ▲ Please install the camera securely before powering on the gimbal.

DISCLAIMER

FY WGS 3-Axis Wearable Gimbal is a feature-rich camera stabilizer, yet lightweight and portable.
It is prohibited for any user to use the gimbal for any illegal purposes.
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