



Wearable Gimbal 3 Axis

FY WG 3 Axis Wearable Gimbal is compatible with GoPro HERO4 / 3+ / 3 and cameras with similar dimensions. Reserved mounting space for GoPro LCD Touch BacPac

Introduction

FY WG is a lightweight, yet feature-rich, wearable 3 axis gimbal capable of capturing immersive and fully stabilized footages. It is compatible with GoPro HERO4/ 3+ / 3 (with optional mounting space for GoPro LCD BacPac) and other cameras with similar dimensions. The FY WG 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 WG. Users can attach the gimbal to any accessories supporting the GoPro three-prong mount. The FY WG also contains two 1/4"-20 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).

Install

STEP 1

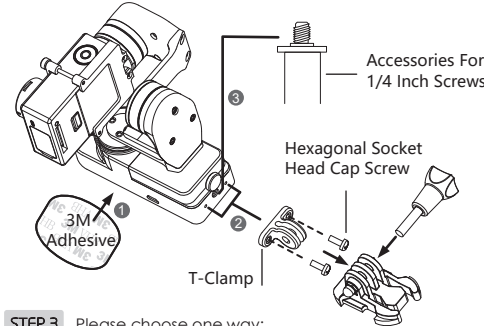
Remove the screws on the battery compartment, insert two 16340 batteries and tighten the screws.

⚠ 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.

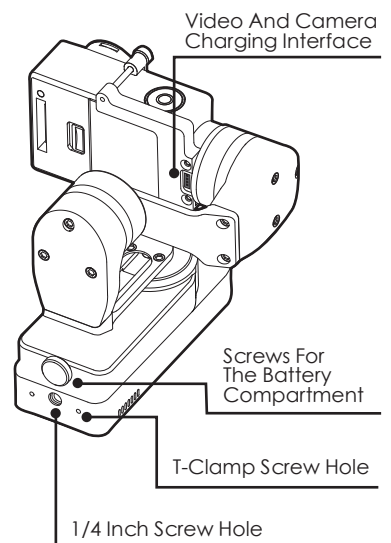
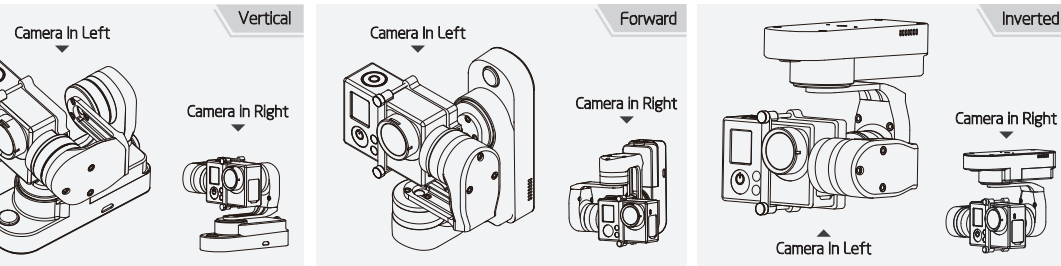
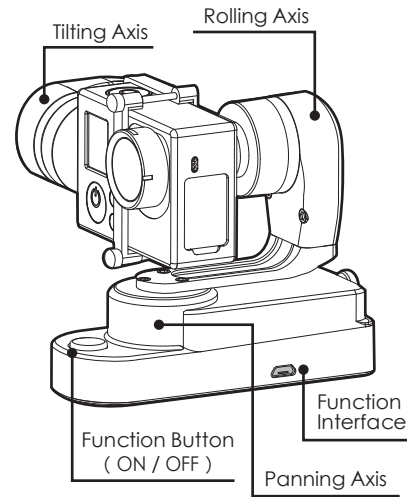


STEP 3

- Please choose one way:
- Use the 3M Adhesive to fix the bottom of the Gimbal.
 - Use with 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.
 - 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

Ensure the camera is mounted securely. Press and hold the function button for 2 seconds. The LED light will turn blue. Press the function button and hold for 3 seconds, it will be powered off.



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.

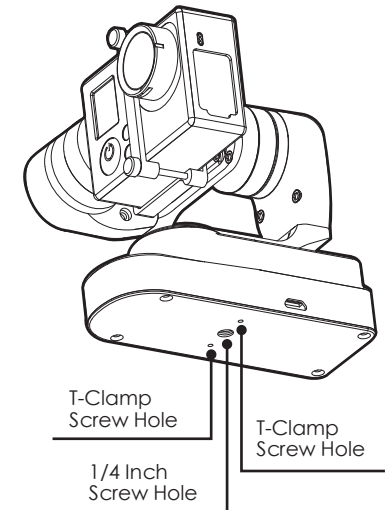
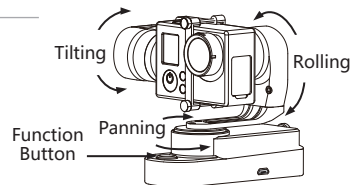
Mode #3 - Lock Mode Camera stays in its current orientation. All panning, tilting and rolls are restricted.

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 tilt 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 G4 Remote Control, tilt and level can be adjusted without the need to connect to a computer. For more information, please refer to G4 Remote Control section in the instruction manual.

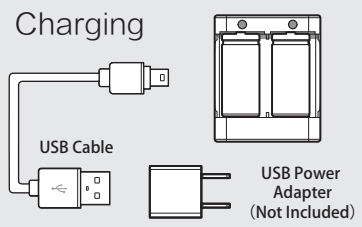
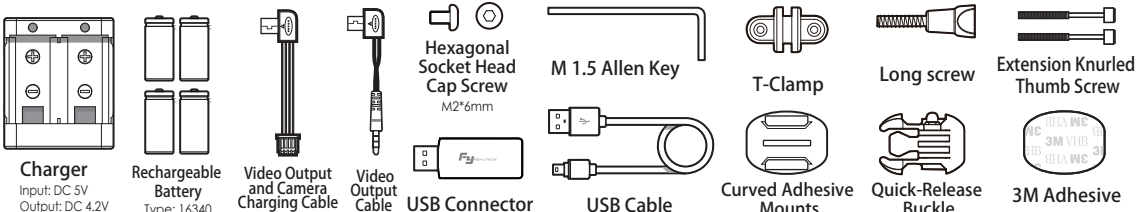


Function Button Quick Reference

Operation	LED Status	Function Explanation	Operation	LED Status	Sound	Function
Single Tap	LED Flashes Once	Panning Mode	Long Press For 1 Second	On Constantly		Lock Mode
Double Tap	LED Flashes Twice	Panning and Tilting Mode	Long Press For 2 Second	Turn On And Switch To The Mode's LED Status	Two Beeps	Power On
Triple Tap	LED Flashes Once	Inversion Mode	Long Press For 3 Second	Turn Off After A moment	Three Beeps	Shutdown
Quadruple Tap	LED Flashes Once	Reset				

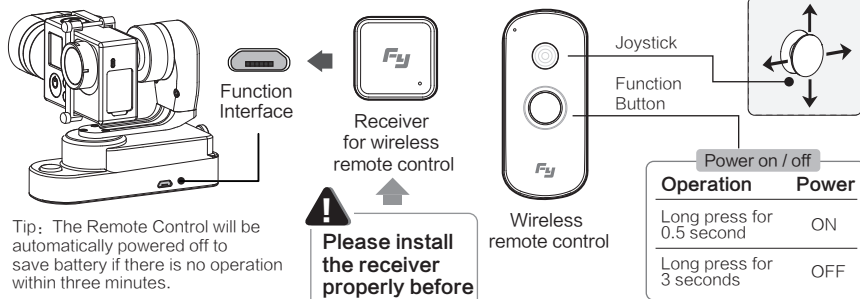
* When the gimbal is in the Inverted Mode, pressing the function button three consecutive times will revert back to the original orientation. When the battery is low, the gimbal will make three beeping sound and automatically shut down itself.

Accessories



FY Remote Control (Optional Item)

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



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

Please install the receiver properly before power on

Wireless Remote Control

Steps to connect wireless remote control:

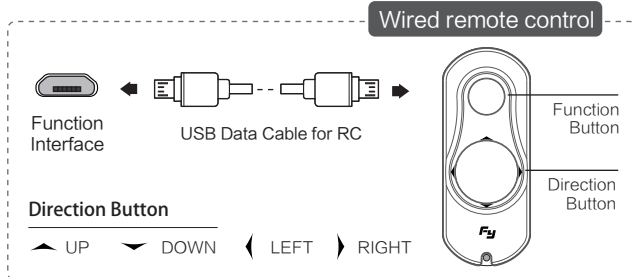
1. Open the wireless remote control: Long press the function button on wireless remote control for one second to power on.
2. Install the receiver for wireless remote control: Insert the receiver for wireless remote control into the function port of gimbal.
3. Open the gimbal: Long press the function 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.

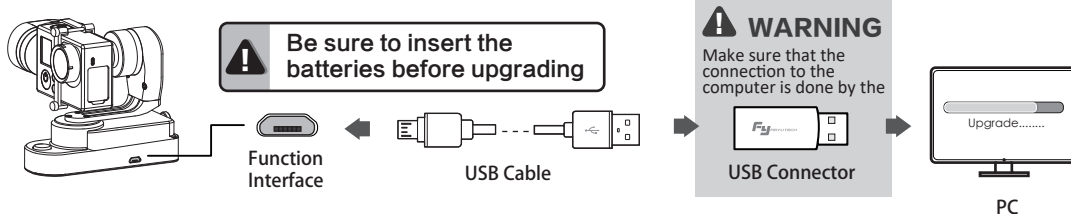


Remote Control Operation Instructions

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

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.

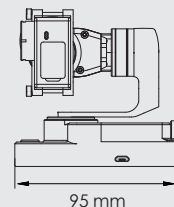
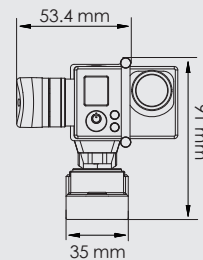
Attention : Please make sure that the connection to the computer is done by the USB connector.

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.

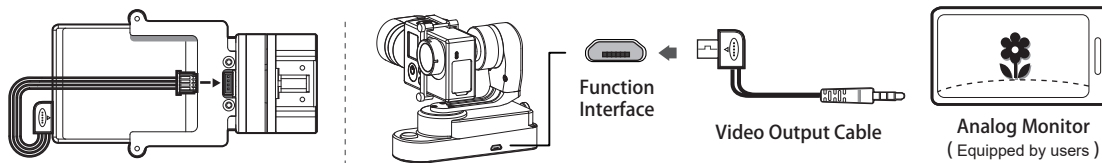
Attention : Please make sure that the connection to the computer is done by the USB connector.

Parameters



Working Voltage	6.0 V ~ 9 V
Vertical Tilting Angle	320°
Rolls Angle	100°
Horizontal Panning Angle	320°
Tilting Increments	2° /S ~ 75° /S
Panning Increments	3° /S ~ 150° /S
Static Attitude Tracking Accuracy	0.01 ~ 0.05 (Working Voltage)
Motion Attitude Tracking Accuracy	0.1 ~ 0.5 (Motor Overload<2G)
Overload Current Protection	800 mA
Weight	188 g (Without Batteries & Camera)
Usage Time	3 ~ 4 Hours
Camera Maximum Height	43.6 mm (Replaceable mounting bracket)
Camera Maximum Thickness	31.7 mm (Replaceable mounting bracket)
Camera Maximum Weight	150 g

Video and Camera Charging Interface



This interface can be output 5 voltage and receive analog video signal from GoPro. Connect the video output and camera charging cable as the above diagram can power the GoPro camera and view video signal from the GoPro camera.

After connecting the video output and camera charging cable, the analog monitor can be used as a display.

Note: The Analog Monitor are equipped by users.

Initialize The Gimbal

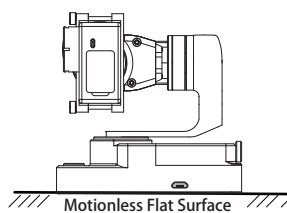
FY WG needs to be initialized whenever the following situations are observed after power on

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 Full-Axis-Lock mode, 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.



DISCLAIMER

FY WG 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. Guilin Feiyu Electronic Technology Co.,Ltd and our associates assume no liability for any accident, injury, death, loss, or other claim related to or resulting from the use of this product. In no event shall Guilin Feiyu Electronic Technology Co.,Ltd and our associates be liable for incidental or consequential damages relating to or resulting from the use of this product or any of its parts. Damage resulting from use, accident, or normal wear and tear is not covered by our warranty. Guilin Feiyu Electronic Technology Co.,Ltd reserves the right to amend this manual and the terms and conditions of this product at any time.

Everyone Can Make a Movie



FY FEIYU TECH

Please visit the official website of Feiyu Tech to get related information: www.feiyu-tech.com
Technical support: service@feiyu-tech.com

ATTENTION

Please assemble the gimbal in accordance to the diagram provided.

Please upgrade the firmware and configuration settings with the provided USB data cable.

Please charge the battery with the provided battery charger.

Please install the camera securely before powering on the gimbal.