G100
3-axis

Handheld Steady Gimbal

FY-G100 is suitable for GoPro 4/GroPro 3+/GroPro 3, also can be compatible with GoPro LCD backpack and the cameras with the same size.
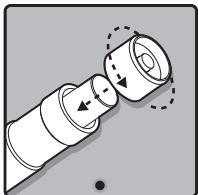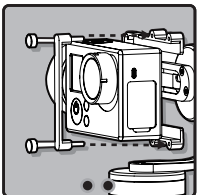
EN

FEIYU-EN-3

1 Beginner Guide

Please upgrade the firmware to V1.13 or above version.

Attention ! Please install the suitable camera first before power on the Gimbal.
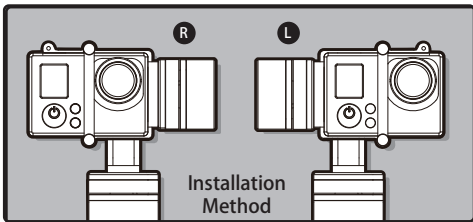
Insert The Batteries
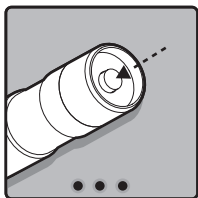Remove the power switch cap, insert two 18350 batteries into the handle.

Install The Camera
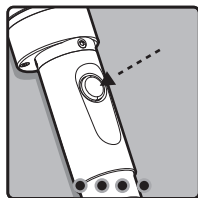Install the GoPro camera by the special Thumb Screw. And make sure it is fixed well.

R   L

Installation Method

Please choose one way to install the GoPro camera

Power On
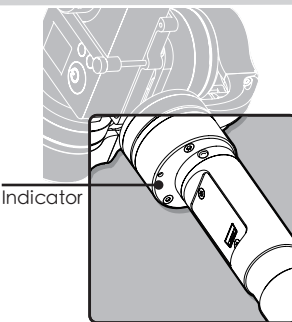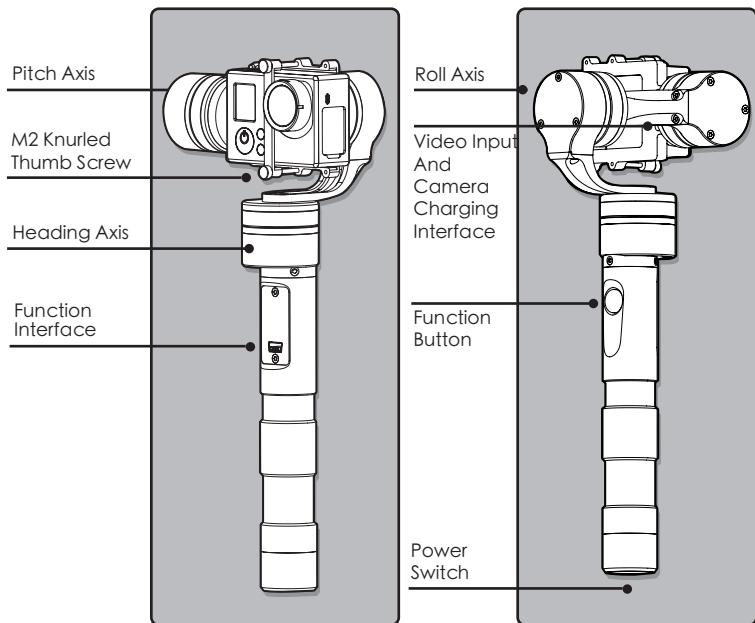Confirm the camera is installed well,then press the power button to turn on the Gimbal.

Mode Switching
When the Gimbal is working, you can press the function button to switch among the three working modes and a special working condition freely.

(Details of working modes please refer to the instructions of working modes)
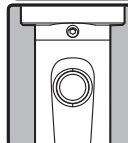
2 Product Appearance Instructions

Pitch Axis

M2 Knurled Thumb Screw

Heading Axis

Function Interface

Roll Axis

Video Input And Camera Charging Interface

Indicator

Function Button

Power Switch

Indicator Explanation

LED Status	Explain
Blue light flashes three times	Full Power
Blue light flashes twice	Enough Power
Blue light flashes once	Low Power
Blue light keeps flashing	No Power

If the indicator light flashes red, the Gimbal will not work correctly due to an error.

If any comments or suggestions please do not hesitate to e-mail us directly : service@feiyu-tech.com

3 Operation Instructions

Function Button
Use for switch the working mode and realize other function

The working mode and function can be identified by the LED status

Working Mode Instructions

Heading Follow Mode Camera Pitch and Roll Angles remain constant, heading follows the handheld position.

Heading And Pitch Follow Mode Camera Roll Angle remains constant. Heading and Pitch follow the handheld position.

Heading Lock Mode Heading, Pitch and Roll are all locked to point at one position.

Pitch   Roll   Heading
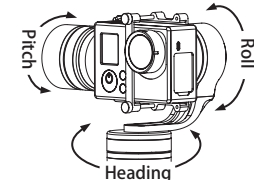
Special Working Condition (Inversion Mode)   When in any working mode, press the function button for three times in succession, the Gimbal enter into the inversion mode and switch to the Heading following mode automatically. Invert the Gimbal to capture more excited scenes easily by switching mode combination. When in inversion working condition press the function button for three times in succession to reset the Gimbal back to the original state.

Standby Mode   Press the function button for 3 seconds, then the motor will stop working and the LED of the function button will light constantly. This indicates that the Gimbal is in the standby mode. Single press the function button the Gimbal will be awakened immediately.

Manual Pulling Locking   The pitching can be adjusted 8 seconds after the Gimbal has been started. Within the Heading Follow and Heading Lock Mode the pitching can be adjusted to the desired angle manually, wait in this position up to 0.5 second until the current angle is adjusted.

Reset   Four press the function button in succession within any working mode, the gimbal will reset to the original state.

Level Calibration   The pitch and roll angle can be adjusted to level by G100 Remote Control without connect to the computer. Details of the operation please refer to chapter 6

Heading Follow Speed Mode Configuration   The follow speed of the heading can be configurate by G100 Remote Control without connect to the computer. Details of the operation please refer to chapter 6

Function Button Instructions

Operation	LED Status	Function Explanation	Operation Again	Function Of Operation Again
Single Press	Single Flashes	Heading Follow Mode	Other operation is arbitrary	
Double Press	Double Flashes	Heading And Pitch Follow Mode	Other operation is arbitrary	
Three Press	Single Flashes	Inversion Mode	Three Press again	Exit inversion mode to original state
Four Press	Single Flashes	Reset	Other operation is arbitrary	
Long Press For 1 Second	On Constantly	Heading Lock Mode	Other operation is arbitrary	
Long Press For 3 Second	On Constantly	Standby Mode	Single press again	Exit standby mode , and awaken immediately

4 Standard And Optional Accessories

Standard Accessories

USB

Mini-USB   **USB Cable**
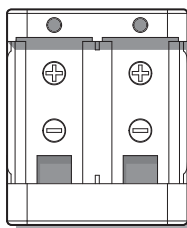
Charger
Type: 16340/18350
Input: DC 5V Min 800mA
Output: DC 4.2V

Rechargeable Battery
Type: 18350

Extension Knurled Thumb Screw

Charging cable

Video Output cable
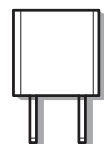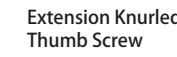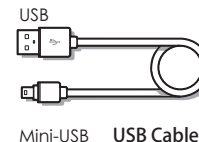
Power Adapter
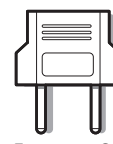
European Standard Connector

USB Connector

Correct Method For Using USB Data Cable

⚠ Please refer to the method of proper usage mentioned below. Otherwise the device itself or other equipment can be damaged

Battery Charging: Put the Mini-USB terminal of the USB cable into the Mini-USB interface of the charger and the USB terminal to the power adapter, if needed connect to the EN Connector.

Connect The Computer: Please remove the batteries first, then insert the Mini-USB terminal into the function interface on the Gimbal and the USB terminal to the USB connector. Afterwards connect the device with the computer to do firmware updates or parameter configuration. (Please connect the USB cable to the computer with the USB connector, otherwise the interface of the computer will be damaged).

Further information can be found in the chapter of the Function Interface Instructions.

Optional Accessories

Name	Function Description
Remote Control	Realize the heading & pitch angle adjustment, mode switching, level calibration and heading follow speed configuration from a distance.
Battery Extender	Extend the capacity space for battery to make the runtime longer.
Extension Bar	Spiral design of the extension bar can be perfect combination with G4 power switch; Extended length is optional, it will help to enjoy a different visual easily.
Camera Charging Cable	The Gimbal can power supply for the Gopro camera.
Video Output Cable	Through this cable the analog video signal of the Gopro camera will be send to the function interface on the Gimbal. **Please connect the analoy monitor for displaying**

5 | Function Interface Instructions

⚠ WARNING

Please Remove The Batteries Before Upgrading

Function Interface — **USB Cable** — **USB Connector** — **PC** — Upgrade.........

Attention: Make sure that the connection to the computer is done by the USB connector

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 then unzip the RAR file.Remove the batteries and refer to the connection diagram to connect the gimbal with the computer. Please refer to the manual of update operation to upgrading,otherwise the Gimbal will be abnormal.
Attention : Please make sure that the connection to the computer is done by the USB connector.

Parameters Configuration

The heading follow speed can be configurate through parameter setting software.User can adjust to the desired following speed mode according to the requirements of filming scene. Three modes for optional: "SLOW" mode, "NORMAL" mode , "FAST" mode. Default setting is "NORMAL" mode.
Attention : Please make sure that the connection to the computer is done by the USB connector.

Gimbal Calibration

The Gimbal attitude can be calibrated through parameter setting software. User can adjust the pitch and roll in a small angle to achieve more accuracy filming scene. Please insert the batteries then refer to the connection diagram to connect the gimbal with the computer for calibration.
Attention : Please make sure that the connection to the computer is done by the USB connector.

6 | G4 Remote Control Instructions (Optional Item)

USB Data Cable For RC

Function Interface

Function Button

Direction Button

Remote Control

Connect the G100 Remote Control to the function interface, heading & pitch angle adjustment and mode switching can be operated from a distance.

Note: The function button on the Gimbal will be disabled after connect the G4 Remote Control

Direction Button	▲ UP	◀ LEFT
	▼ DOWN	▶ RIGHT

Use of G100 Remote Control :

Angle Control

Within the Heading Follow Mode , pitch angle can be controlled by the "UP" and "DOWN" button on the G4 Remote Control.
Heading angle can be controlled by the "LEFT" and "RIGHT" button .

Level Calibration

Through connect the G100 Remote Control , the gimbal can make level calibration by RC without connect to the computer. Six press the function button in succession within any working mode, Gimbal will enter the Level Calibration Mode. The pitch angle can be adjusted by the "UP" and "DOWN" button, the roll angle can be adjusted by the "LEFT" and "RIGHT" button. After finish the level calibration , single press the function button on the RC, the Gimbal will exit the level calibration mode then enter the standby mode and save the parameters automatically. Single press the function button on the RC again the gimbal will be awakened immediately.

Note: Please make sure that Gimbal initialized successfully.

Heading Following Speed Mode Configurate

Hold the "RIGHT" button and four press the function button in succession at the same time, the Gimbal will accelerate the heading follow speed.
Hold the "LEFT" button and four press the function button in succession at the same time, the Gimbal will slow down the heading follow speed. When successfully configurate the heading follow mode the Gimbal will enter the standby mode and save the parameters automatically. Single press the function button on the RC again the Gimbal will be awakened immediately.
There are three heading follow speed modes for optional: "SLOW" mode, "NORMAL" mode , "FAST" mode. Default setting is "NORMAL" mode. Configuration can be done within any working mode.

7 | Video And Camera Charging Interface

Function Interface — **Analog Monitor Cable** (Equipped By Users) — **Analog Monitor** (Equipped By Users)

This interface can be output 5 voltage and input analog video signal of GoPro

Connect the camera charging cable, power supply for the GoPro camera.

Connect the video output cable, input analog video signal of GoPro camera and output via the function interface on the gimbal.

After connect the video output cable, the analog monitor connect to the function interface for displaying.

Note: The camera charging cable and the video output cable doesn't includes in the standard package, it's a optional item.

8 | Extension Bar Instructions (Optional Item)

With the special designed switch, the extension bar can be added directly. Allows to shoot the distance images more easily. Special design allows for flexible extension.

350mm

Φ 23mm

Extension Bar Diagram

9 | Initialize The FY-G4 Gimbal

Initialization Instructions

1. Install the camera properly.
2. Gimbal placed on stationary flat and keep motionless.
3. Power on the Gimbal.
4. The Gimbal is activate and it will be initialized automatically. Afterward pick up the Gimbal start working with it.

Note: The LED of the function button will fast flashing if the initialization succeed.

Motionless Flat Surface

FY-G4 needs to be initialized whenever the following situations appear after power on

1. After power on, the angle of pitch is not level with the horizon line.
2. After power on, the angle of roll is not parallel with the horizon line.
3. When the gimbal is in heading lock, the angle of heading moves frequently (heading is not stationary).

10 | Specification

Items	Min	Standard	Max	Remarks
Working Voltage	6.0V	8.4V	17.0V	
Pitch Angle	-160 (Down)	0 (Horizontal)	+160 (Up)	Handheld In Horizontal
Roll Angle	-50	0 (Horizontal)	+50	
Heading Angle	-160 (Left)		+160	Handheld In Vertical
Heading Angle	-50		+50	Handheld In Horizontal
Pitch Following Rate	2° / Sec		75° / Sec	
Heading Following Rate	3° / Sec		150° / Sec	
Static Attitude Tracking Accuracy	0.01	0.02	0.05	Gimbal In Static Mode
Motion Attitude Tracking Accuracy	0.1	0.2	0.5	Motor Overload<2G
Overload Current Protection		800mA		
Weight		265g		Without Batteries & Camera

11 | Attention

DISCLAIMER

FY-G100 Handheld Gimbal is an excellent camera stabilizer,lightweight and portable.

Prohibit any user for any illegal purpose. Users will be responsible for all behavior of purchase and use products.

The Guilin Feiyu Electronic Technology Co.,Ltd and our associates are not responsible for any damages or liabilities caused by the use of this product.

For any unknown sources or using, we will not be any service.

Feiyu Tech reserves the right to amend this manual and the terms and conditions of use the gimbal at any time.

ATTENTION

- Please correct assemble the gimbal according to the diagram .
- Please upgrading firmware and configurate parameters with the standard configuration USB date cable.
- Please battery charging with the standard configuration charger.
- Please install the camera well before power on the Gimbal.

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