3-Axis Stabilized Handheld Gimbal for Camera

Instructions

Guilin Feiyu Technology Incorporated Company
User Manual EN V1.3
1. G6 Plus Overview .......................................................... 1
2. Quick Start Guide .......................................................... 3
3. Balance the Gimbal ......................................................... 4
   Balance Adjustment of the Pan Axis ................................. 4
   Balance Adjustment of the Roll Axis ............................... 5
   Balance Adjustment of the Tilt Axis ............................... 6
4. Basic Operation ............................................................ 7
   Modes ........................................................................... 7
   Introduction of Display ............................................... 7
   Joystick - operation ...................................................... 8
   Function Button - operation ........................................... 8
   Shutter Button - operation ............................................. 8
   Setting Button - operation ............................................. 9
   Switch Camera Modes .................................................. 9
   Setup Parameter ........................................................ 9
   Horizontal Adjustment Button - operation ....................... 10
   Trigger Button - operation .......................................... 10
   Multifunction Knob - Zooming control / Follow focus / Control 3 Axis .................................. 10
   App - Download and Connecting .................................. 11
5. Advanced Operation ...................................................... 12
   Manual Lock ............................................................... 12
   Auto-rotation Mode ..................................................... 12
   Connecting to Camera .................................................. 13
   Firmware Upgrade ...................................................... 13
   Customize function button and trigger button .................. 14
   Inception mode .......................................................... 14
   Gimbal Initialization .................................................... 15
6. Specifications ............................................................... 16
1. G6 Plus Overview

Introduction of Interface and screws

1. **Thumb Screw**
   Used for fixing the camera or mobile phone to the adjustment sliding plate.

2. **Adapter Thumb Screw**
   Used for fixing the adjustment sliding plate.

3. **Micro USB Port**
   (1) Used for charging the gimbal (input 5V / 2A), the gimbal can be used while being charged, but it is not available for external power supply.
   (2) Used for firmware upgrade (computer), please refer to the firmware upgrade operation steps for details.
   Please stuff up this port by the dustproof plug when it is not in use.

4. **1/4-20 Thread Mount**
   Used for expand other accessories, such as the tripod which built-in 1/4 inch screw, extension rod and so on.

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**Accessories**

- Micro USB Cable X1
- 26650 Li-ion Battery X1
- Mount Adapter X1
Introduction of Display and Buttons

1. Display
   - Bluetooth
   - Battery Level
   - WiFi
   - Modes
   - Camera Mode

2. Joystick
   - Up
   - Left
   - Right
   - Down

Introduction of Axis and Knob

3. Function Button
   - Refer to Page 8
   - Long press: Power on / Power off
   - Single tap: Panning Mode / Lock Mode
   - Double tap: Follow mode
   - Triple tap: Rotate 180° in horizontal
   - Quadruple tap: Auto-rotation Mode
   - Five tap: Initialization

4. Shutter Button
   - Refer to Page 8
   - After connecting the gimbal to camera via Feiyu On App, shutter button can control the camera for shooting.
   - Please refer to the chapter "Connecting to camera" in page 13

5. Setting Button
   - Refer to Page 9
   - Long press: Switch the interface for camera parameters
   - Single tap: Switch camera modes / main interface
   - Please refer to the chapter "Connecting to camera" in page 13

6. Horizontal Adjustment Button
   - Refer to Page 10
   - You can control the horizon angle via the horizontal adjustment button.

7. Trigger Button
   - Refer to Page 10
   - Press and hold: Lock Mode
   - Double tap: Reset

8. Multifunction Knob
   - Refer to Page 10
   - (1) Achieve the control to the focal length of camera, such as follow focus, zoom.
   - (2) Achieve the control to the angle of three axes of the gimbal

Introduction of Other Components

1. Sliding Arm
   - Used for adjusting the up and down centre-of-gravity position of tilt axis.

2. Adapter (Clamping plate)
   - Used for fixing the camera.

3. Adjustment Sliding Plate
   - Used for adjusting the front and back position of camera so as to adjust the front and back centre-of-gravity position of tilt axis.

4. Cross Arm
   - Used for adjusting the centre-of-gravity position of roll axis.

5. Vertical Arm
   - Used for adjusting the centre-of-gravity position of pan axis.

6. Handle
   - Used for holding the gimbal by one hand.
2. Quick Start Guide

1 Install Battery

Remove the bottom cap, insert a 26650 battery and then tighten the cap.

<table>
<thead>
<tr>
<th>Type</th>
<th>26650</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Capacity</td>
<td>5000mAh</td>
</tr>
</tbody>
</table>

2 Charging

TIP Please fully charge the battery before power on the gimbal for the first time.

Charging with Micro USB cable as shown below.

3 Put the Camera / Smartphone on

Put the Camera on

Correctly place the camera on the adjustment sliding plate, and tighten it with thumb screw in the middle sliding chute.

You can also take down the adjustment sliding plate from the adapter, install it to the bottom of the camera, and then install to the adapter.

Take Down  Adjustment Sliding Plate

Unlock  Safety lock

If the camera doesn’t have the 1/4-20 screw hole, please put the camera on mount adapter, which has 1/4-20 screw hole, and then mount it following above steps.

Put the Smartphone on

Correctly place the smartphone on the smartphone adapter (Optional accessory), and tighten it with thumb screw in the middle sliding chute.

Available mobile phone width: 57~84mm

Compatible for Reference

Pocket Camera

ILDC

GoPro Sports Camera

Smartphone installation
4 Balance the Gimbal

NOTE
Unbalanced center of gravity can lead to a decrease in stability, even the camera cannot be balanced.

Power on the gimbal after the center of gravity of 3 axis is balanced.

Please refer to the follow chapter "Balance the Gimbal" for operation

5 Power on / off

NOTE
(1) Please mount the camera or smartphone before powering on the gimbal.
(2) When the battery is low, please charge the gimbal.
(3) When not in use, turn off the gimbal and then remove the battery.

Long press the function button, the display will show \[ \text{ 杨 } \] and release it when you hear the beep tone.

3. Balance the Gimbal  (Before power on )

1 Balance Adjustment of the Pan Axis

* After adjustment, be sure to tighten the pan axis knob ring

Steps

(1) Hold the handle of gimbal, keep the handle parallel to the level ground.

(2) **Loosen** the pan axis knob ring
   (Slightly loose until the vertical arm can be moved)

(3) **Move and adjust the position of vertical arm**, until the vertical arm is parallel to the level ground

(4) **Tighten** the pan axis knob ring

Vertical Arm

Handle

Level Ground

**After adjustment**
Vertical arm is parallel to the level ground
Balance Adjustment of the Roll Axis

* After adjustment, be sure to tighten the roll axis knob ring

**Steps**

(1) Stand the gimbal on level ground.
(2) **Loosen** the roll axis knob ring  
(Slightly loose until the roll arm can be moved)
(3) **Move and adjust the position of roll arm**, until the camera is parallel to the level ground.  
(Refer to lever principle)
(4) **Tighten** the roll axis knob ring

After adjustment  
Camera is parallel to the level ground
Balance Adjustment of the Tilt Axis

**Step 1**
1. Stand the gimbal on level ground.
2. **Loosen** the tilt axis knob ring
   (Slightly loose until the sliding arm can be moved)
3. **Move the sliding arm to the lowest position.**

**Step 2**
* After adjustment, be sure to tighten the thumb screw
1. **Loosen** the thumb screw on the bottom of the adapter (Clamping plate)
   (Slightly loose until the adjustment sliding plate can be moved)
2. **Move and adjust the position of adjustment sliding plate**, until the camera lens is parallel to the level
3. **Tighten** the thumb screw

**Step 3**
* After adjustment, be sure to tighten the tilt axis knob ring
1. At any pitching angle, give an angle to the camera at random.
2. **Slightly adjust the position of sliding arm**, until it keeps still without shaking
3. **Tighten** the tilt axis knob ring

After adjustment
At any pitching angle, it can keep still without shaking
4. Basic Operation

Modes

**Panning Mode** *(Default mode)*
The roll and tilt direction are fixed, and the camera moves according to the left-right movements of the user’s hand.

**Follow Mode**
The roll direction is fixed, and the camera moves according to the left-right movements, up-down movements of the user’s hand.

**Lock Mode**
The orientation of the camera is fixed.

**Reset**
Return to panning mode, three axises return to default position.

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![Modes Diagram](image)

**Introduction of Display**

<table>
<thead>
<tr>
<th>Display icon</th>
<th>Mode / Status</th>
<th>Display icon</th>
<th>Mode / Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF</td>
<td>Panning Mode</td>
<td>🕵️</td>
<td>Battery Level</td>
</tr>
<tr>
<td>AF</td>
<td>Follow Mode</td>
<td>📸</td>
<td>Camera photo shooting</td>
</tr>
<tr>
<td>LK</td>
<td>Lock Mode</td>
<td>🌟</td>
<td>Camera video shooting</td>
</tr>
<tr>
<td>🌟</td>
<td>Bluetooth is connected</td>
<td>🌟</td>
<td>WiFi is connected</td>
</tr>
<tr>
<td>✘</td>
<td>Bluetooth is not connected</td>
<td>✗</td>
<td>WiFi is not connected</td>
</tr>
<tr>
<td>SET WIFI VIA APP</td>
<td>Prompt for users to open the App settings in order to connect via WiFi</td>
<td>📡</td>
<td>Camera is not connected</td>
</tr>
</tbody>
</table>

*Please refer to the chapter “Connecting to camera” in page 13*
Joystick - operation

- **Upward**
  1. Camera lens upward
  2. Select the option above

- **Move to left**
  1. Camera lens move to left
  2. Select the option on the left
  3. Cancel

- **Move to right**
  1. Camera lens move to right
  2. Select the option on the right
  3. Confirm

- **Downward**
  1. Camera lens downward
  2. Select the option below

Function Button - operation

**Note:** The firmware upgrade may occur manual operation function and the actual product features do not match. Please find the latest manual on the official website.

<table>
<thead>
<tr>
<th>Function</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single tap</td>
<td>Panning Mode / Lock Mode</td>
</tr>
<tr>
<td>Double tap</td>
<td>Follow mode</td>
</tr>
<tr>
<td>Triple tap</td>
<td>Rotate 180° in horizontal</td>
</tr>
<tr>
<td>Quadruple tap</td>
<td>Auto-rotation Mode</td>
</tr>
<tr>
<td>Five tap</td>
<td>Initialization</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Function Button</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single tap</td>
<td>Shooting / Start shooting / Stop shooting</td>
</tr>
</tbody>
</table>

Shutter Button - operation

After connecting the gimbal to camera / smartphone via Feiyu On App, single tap it to control the recording of the camera / smartphone.

- **Single tap**
  On the main interface of the gimbal display

Please refer to the chapter "Connecting to camera" in page 13
After connecting the gimbal to camera via Feiyu On App, the setting button can switch the camera modes. Using the setting button and joystick to setup parameters.

Please refer to the chapter "Connecting to camera" in page 13
Horizontal Adjustment Button - operation

You can control the horizon angle via the horizontal adjustment button. The control angle is -30° ~ +30°

Trigger Button - operation

Press and hold: Quickly follow
Double tap: Reset

In the panning mode or follow mode, press and hold the trigger button to enter quickly follow, release it to return previous mode.

Return to panning mode, tilt, roll and pan axis return to initial level.

Multifunction Knob - Zooming control / Follow focus / Control 3 Axis

Single tap: Switch adjustment option
Rotate: Adjust by rotating
Long press: Select the device you want to control

Control Camera

Default

Long press the multifunction knob

Control Gimbal

Default

Display

Zoom + Default
Follow Focus*

Explanation

Zooming control
Follow focus

* After connecting your camera
Please refer to the chapter "Connecting to camera" in page 13

Display

Pan Control
Roll Control
Tilt Control

Explanation

Control the pan axis rotation
Control the roll axis rotation
Control the tilt axis rotation
App - Download and Connecting

Download and Install Feiyu ON App

Please download Feiyu ON at your smartphone app store or can the QR code below.

* Requires iOS 9.0 or later, Android 6.0 or later.

Connect Feiyu ON App

1. Power on the gimbal.
2. On smartphone, enable bluetooth and open Feiyu ON App. Login or register, follow instruction and connect to the gimbal.

Once the connection is successful, the gimbal can be controlled on the App, including remote direction, switching mode, setting parameters and etc.
5. Advanced Operation

Manual Lock

Camera can be manually positioned while in panning mode, follow mode or lock mode. Both the pan axis and tilt axis can be manually set up.

Manually move camera to desired position, and hold for half a second. New tilt and/or pan positions are automatically saved.

Take the tilt axis setting for example:

Auto-rotation Mode

The G6 Plus gimbal can easily create constant speed movements in the auto-rotation mode. This mode can be used for recording both regular video and motion timelapse photography. For better performance, attach gimbal to the FeiyuTech tripod, or other tripod, to keep it completely still.

Set rotation speed in Feiyu ON App

Both the pan and tilt directions can be rotated.

Connect to the Feiyu ON App and select desired speed from the auto-rotation mode rate option in the settings menu.

<table>
<thead>
<tr>
<th>G6 Plus Rotation Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>9s/turn 18s/turn 24s/turn 30s/turn 1min/turn 2min/turn 4min/turn 8min/turn 15min/turn 30min/turn 1h/turn (Default) 4h/turn 8h/turn</td>
</tr>
</tbody>
</table>

(1) Enter auto-rotation mode

Enter auto-rotation mode by quadruple tapping the function button.

(2) Set rotation start position

Record the first position (rotation start position) by manually moving camera to desired position. Hold in position for half a second. Single tap the function button to record rotation start position.

(3) Set rotation end position

Record the second position (rotation end position) by manually moving camera to desired position. Hold in position for half a second. Single tap the function button to record rotation end position.

(4) Start auto rotation movements

The gimbal automatically restores to the start position, while the tilt axis and pan axis start rotating at a constant speed according to pre-set speed to end position, repeat step (2) (3) to start again.

Exit

Double tap Trigger button

Exit the auto-rotation mode and reset
Connecting to Camera

G6 Plus gimbal can connect to the camera by Feiyu ON App.

Operations available after connecting to the camera:

<table>
<thead>
<tr>
<th>Button</th>
<th>Operation</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting Button</td>
<td>Single tap</td>
<td>Single tap in the main interface of the gimbal display can switch to the camera modes</td>
</tr>
<tr>
<td>Shutter Button</td>
<td>Single tap</td>
<td>On the main interface of the gimbal display, single tap for photo shooting / start shooting / stop shooting</td>
</tr>
</tbody>
</table>

Steps of connecting to camera:

1. Turn on your sports camera's WiFi (2.4GHz)
2. Successively select "Settings" -- "Parameters Settings" --"WiFi Settings" on Feiyu ON App
3. Select camera model
4. Select your camera connection name and enter the correct connection password of your camera
5. Waiting for connecting
6. Connect successfully

If icon 🔄 appears on the display screen, it means the gimbal failed to connect to the camera, try to restart gimbal or camera, or reconnect according to above steps.

If the WiFi is not connected for a long time, please restart the camera's WiFi.

Firmware Upgrade

Upgrade the firmware through the Feiyu ON App.

1. Click the icon 🔄
2. Select upgrade type.
3. Follow the prompts to upgrade the firmware.

Upgrade type introductions:

Gimbal update: Repair / update or newly add gimbal control / function / parameter and etc.

Keyboard update: Repair / update or newly add button/touch screen/interaction functions, update more compatibility cameras which can be controlled through WIFI, repair few bugs about camera control through WIFI, and etc.

Bluetooth firmware update: Repair / update or newly add Bluetooth functions, update more compatibility cameras, and etc.

LED icons update: Repair or update the icons in the screen. （Support for AK series gimbal only）

USB Hub update: Repair / update or newly add control cameras/follow focus through USB cable, repair the bugs about camera control, and etc.（Support for AK4500/AK3000 only）
Customize function button and trigger button

The following operations can only be made with Gimbal firmware V1.026 or above, and Keypad board firmware V1.10 or above.

Inception mode

The following operations can only be made with Gimbal firmware V1.026 or above, and Keypad board firmware V1.10 or above.

Set up the button

Customize function (mode) button as "Inception mode" through Feiyu ON App.

(1) Select - Advanced settings - Mode Button Settings
(2) Select double tap, triple tap or quadruple tap and customize its function to "Inception mode"

For example, select triple tap to be "inception mode".

Operation

(1) Tap the mode button as you customized, triple tap function button for instance, to enter the Inception mode, the camera would turn up automatically with the upper right corner of screen indicate "DM".
(2) Hold the gimbal horizontally, and turn the joystick to left or right to make the lens moving in circle for taking inception footage.
(3) Double tap trigger button to reset the gimbal and go back to default pan mode.
Gimbal Initialization

You can initialize your gimbal when:

1. When camera is not level
2. If not used for a long period of time
3. In case of extreme temperature variations

Adjusting Steps

1. Tap the function button for 5 consecutive times and hear the "beep" sound, and the motor will stop working and "Initing" shows up.

2. Place the gimbal on the table unmoved, and the gimbal automatically detect whether or not it is placed on a static flat surface, and then its initializing will start automatically showing "Initing" on the display, and "Success" will be displayed after the initializing has been successfully completed.

3. After the initialization is done, single tap the function button to wake up and return to the main interface.

NOTE: If the initialization is not successful for a long time, long press the function button to turn off the gimbal, restart it and then initialize.
## Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>G6 Plus 3-Axis Stabilized Handheld Gimbal for Camera</td>
</tr>
<tr>
<td>Max. Tilting Range</td>
<td>260°</td>
</tr>
<tr>
<td>Max. Rolling Range</td>
<td>320°</td>
</tr>
<tr>
<td>Max. Panning Range</td>
<td>360°</td>
</tr>
<tr>
<td>Tilting Speed</td>
<td>2°/s ~ 75°/s</td>
</tr>
<tr>
<td>Panning Speed</td>
<td>3°/s ~ 150°/s</td>
</tr>
<tr>
<td>Operation Time</td>
<td>9 Hours</td>
</tr>
<tr>
<td>Weight</td>
<td>663g (Not including the battery, camera, camera lens, etc.)</td>
</tr>
<tr>
<td>Payload</td>
<td>800g (In center of gravity balanced state)</td>
</tr>
<tr>
<td>Compatible Cameras for Reference</td>
<td>Sony RX100 / Sony a6300 (16-50 or 28-70mm) / Sony a6500 (16-50 or 28-70mm) / Canon M10 (15-45mm) / Canon G3X, ect.</td>
</tr>
<tr>
<td></td>
<td>Sony RX0 / GoPro HERO series sports cameras</td>
</tr>
<tr>
<td></td>
<td>Fit for smartphone with smartphone adapter(Optional accessory)</td>
</tr>
</tbody>
</table>
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Due to software and hardware improvements, your actual product might differ from the descriptions and pictures in this user manual. You can get the latest user manual from the official website.

For more information, please visit our official website

DISCLAIMER

Prohibit any user for any illegal purpose. Users will be responsible for all behaviors of purchase and use products. The Company assumes no liability for any risks related to or resulting from the debug and use of this product (including the direct, indirect or third-party losses).

For any unknown sources of using, we will not be at any services.

The updating and changes of product firmware and program may cause changes in function descriptions in this user manual, please read the instructions carefully before upgrading the firmware and use the corresponding user manual.

You can get the latest user manual from the official website: www.feiyu-tech.com

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