1. Product Overview

* The showing smartphone is only for reference

Tilting axis

Rolling axis

Panning axis

1/4 inch screw hole

USB port

Handle

1/4 inch screw hole

SPG Live

3-Axis Stabilized Handheld Gimbal for Smartphone

Rolling

Tilting

Panning 360°

Indicator

Joystick

Function button (ON / OFF)

Bluetooth shutter
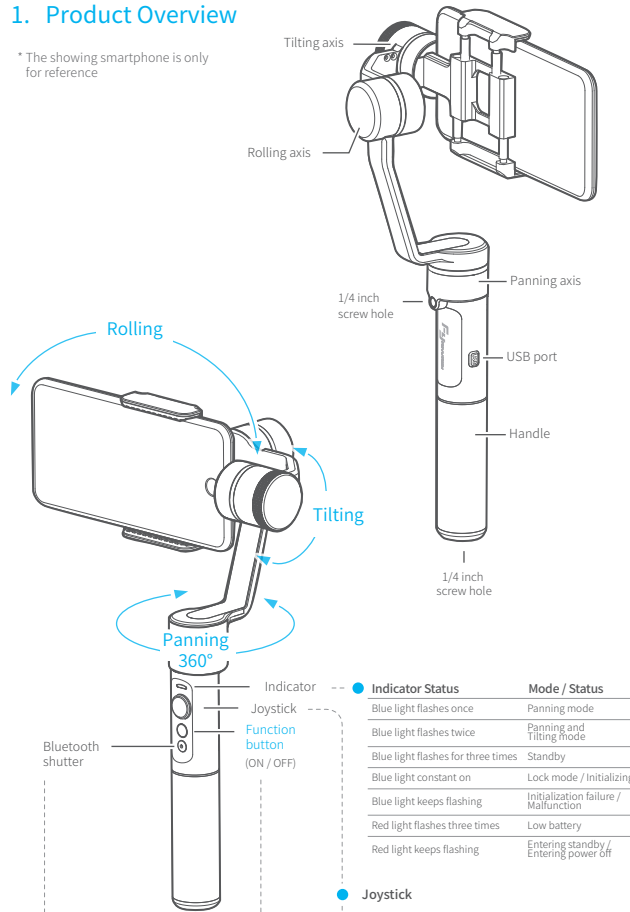
Indicator Status	Mode / Status
Blue light flashes once	Panning mode
Blue light flashes twice	Panning and Tilting mode
Blue light flashes for three times	Standby
Blue light constant on	Lock mode / Initializing
Blue light keeps flashing	Initialization failure / Malfunction
Red light flashes three times	Low battery
Red light keeps flashing	Entering standby / Entering power off

Joystick

Joystick	Camera lens
Up	Down
Down	Up
Left	Left
Right	Right

Function Button

You can using the function button to switch the working mode, power on or power off the gimbal.

Please refer to "Modes / Functions".

ON: Long press Function Button and release it until the green light is on.
OFF: Long press Function Button and release it until the red light changes from quick flashing to constant.

Bluetooth Shutter   Bluetooth name: FY_SPGLive_xx

Tips: (1) Make sure the volume "+" key of your smartphone can control the shooting.
(2) Android devices: Android 4.3 and above，the hardware of smartphone support bluetooth 4.0 / BLE protocol
After connecting with bluetooth , the button can be used as shutter function and the gimbal indicator will blinks a green light every 10 seconds.

Connecting steps:
(1)Turn on the bluetooth of your smartphone.   (2) Connect your smartphone with " FY_SPGLive_xx ".
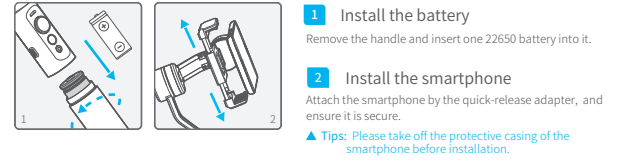(3) It can act as a mobile phone camera shutter after a successful connection. 10 pieces of pairing info can be stored in this product.

When you change your smartphone, please first shutdown Bluetooth of the previous one, then start Bluetooth pairing for the new one.

Bluetooth pairing information clear: In boot-up state, long press the Bluetooth Shutter of the gimbal until the red light is on to clear all the bluetooth pairing info. After clearing, smartphone paired previously need to clear " FY_SPGLive_xx " first, then shutdown the Bluetooth of smartphone and reopen it to pair anew.
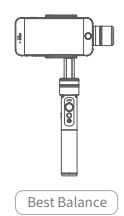
Using App: You can perform various settings and operations via specified smartphone app when the bluetooth is paired.

2. User Guide

⚠️ **Attention !**
(1) Please install the smartphone before powering on the gimbal
(2) Please turn off the power when the gimbal is not in use, then remove the smartphone

1 Install the battery
Remove the handle and insert one 22650 battery into it.

2 Install the smartphone
Attach the smartphone by the quick-release adapter, and ensure it is secure.

▲ **Tips:** Please take off the protective casing of the smartphone before installation.

3 Balance Adjustment
In order to achieve in a better performance of the gimbal, please try to adjust the smartphone installation to the best balance.

Best Balance

How to balance adjustment

If the smartphone inclines to the left, please adjust it to the right to the optimal balance status.

If the smartphone inclines to the right, please adjust it to the left to the optimal balance status.

No tolerance

Heavy Counter Weight

1mm Counter Weight

If there is no tolerance between smartphone and tilting axis, but the smartphone still inclines to the left, please replace the heavy counter weight or add the 1mm counter weight.

If there is no tolerance between smartphone and tilting axis, but the smartphone still inclines to the right, please replace the light counter weight or remove the 1mm counter weight.

4 Power on / off

Power on： Long press Function Button and release it until the green light is on.

Power off： Long press Function Button and release it until the red light changes from quick flashing to constant.

▲ **Attention:** Turn the gimbal on after ensuring the smartphone is secure.

⚠️ If the battery power is too low, the red light will flash 3 times every 5 seconds. Please shut down the gimbal in time, and recharge or replace the battery.

3. Modes / Functions

Working Modes

Panning Mode
The phone can move to left or right smoothly along with the handheld moving. The tilting and rolling directions fixed.
* Boot default mode: Panning mode

Panning and Tilting Mode
The phone can move to left or right and tilt up and down smoothly along with the handheld moving. The rolling directions fixed.

Lock Mode
The phone stays in its current orientation. The panning, tilting and rolling direction are all fixed.
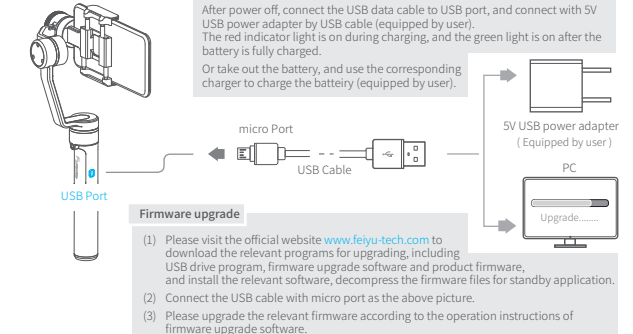
Other Functions

Vertical Shooting
Move the gimbal to the right (or left) slowly as picture，if the angle between tilling axis motor and panning axis motor is less than 30°, click the function button to switch to vertical shooting. Vice versa. * Applicable to the firmware V1.46 and above version.

One of Vertical shapes:

or   or

≤30°   30°≥

Click   Click

Reset
Reset the tilting axis of the gimbal to initial orientation and initial mode.

Standby
In standby mode, keep the gimbal in power-up state, the motor stops working, the indicator light flashes for three times, and single tap again the function button to wake up the gimbal.

Mode / Function Operation Instructions

Function Button	Function	Explanation
Single tap	Panning Mode / Lock Mode	Single tap to switch between panning mode and lock mode
Double tap	Panning and Tilting Mode	Under panning and tilting mode, single tap to switch to lock mode
Triple tap	Rotate 180°in horizontal	Make the lens rotate 180 °
Quadruple tap	Reset	Reset the tilting axis of the gimbal to initial orientation and initial mode
Long press until the red light flashes quickly	Standby	Single tap again to awake the gimbal, or triple tap to initialize the gimbal

4. USB Port

Charging
After power off, connect the USB data cable to USB port, and connect with 5V USB power adapter by USB cable (equipped by user).
The red indicator light is on during charging, and the green light is on after the battery is fully charged.
Or take out the battery, and use the corresponding charger to charge the battery (equipped by user).

micro Port

USB Port

USB Cable

5V USB power adapter (Equipped by user)

PC

Upgrade.......

Firmware upgrade
(1) Please visit the official website www.feiyu-tech.com to download the relevant programs for upgrading, including USB drive program, firmware upgrade software and product firmware, and install the relevant software, decompress the firmware files for standby application.
(2) Connect the USB cable with micro port as the above picture.
(3) Please upgrade the relevant firmware according to the operation instructions of firmware upgrade software.

5. Gimbal Horizontal Angle Adjustment (Initialize the gimbal)

The horizontal angle needs to be adjusted whenever the following situations happen to the gimbal

(1) The tilt angle is not leveled with the horizontal surface.
(2) The roll angle is not parallel to the horizontal surface.
(3) Under lock mode, the panning angle drifts.

Adjusting steps:

(1) In boot-up state, long press the Function Button until the red light flashes quickly to enter standby status, the blue light will flash 3 times periodically.

(2) Lay the gimbal on a static flat surface and triple tap the Function Button. Initialization is successful when the blue light changes from constant on to flashing 3 times periodically.

When the initialization failed, the LED indicator will flash quickly, repeat step (2) to reinitialize.

6. Parameters

			Package List	
Titling Angle	320°		Product model	Quantity
Rolling Angle	320°		SPG Live	1
Panning Angle	360°		Batteries (Type:22650)	1
Titling Increments	2°/s ~ 75°/s		USB cable	1
Panning Increments	3°/s ~ 150°/s		Light counter weight	1
Usage time	8 Hours		Heavy counter weight	1
Adaption	iPhone series / HUAWEI P9 / HUAWEI P9 Plus / Mi 5 / MEIZU MX6 / SAMSUNG NOTE 5 / S7 or other smartphones with the similar dimensions		1mm counter weight	1
			User manual	1
Weight	355g (not including battery and smartphone)		Warranty card	1

Attention
• Please correctly assemble the gimbal in accordance with the diagram.
• Please install the iPhone before powering on the gimbal.
• When the gimbal is not in use or placed on the table, please ensure it is powered off.

Create More Possibilities

For more information, please visit our official website www.feiyu-tech.com
Support Email: service@feiyu-tech.com

www.feiyu-tech.com

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