Falcon User Manual

INKEE

Contents

Introduction

Falcon is a hand-held stabilizer specially designed for cameras, which supports most of Action Cameras on the existing market, Through the three-axis motion compensation to stabilize the Action Camera to get a stable effect.

Product Contents
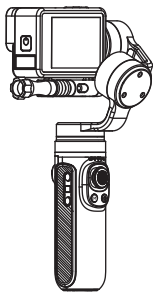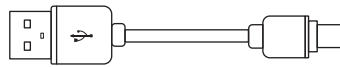
Stabilizer x1	Charging Cable x1	Tripod x1
Screw x1	Hexagon Wrench x2	Screw to fix camera x1
Storage Bag(at the bottom of the package)x1	Quick Start Guide x1	
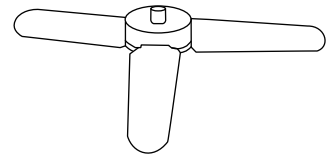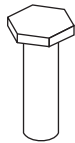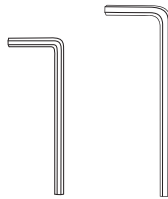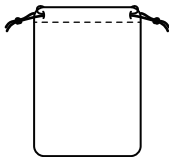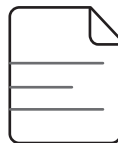
Falcon diagram

Roll Axis

Left and Right Balance Adjustment Lock

Pan Axis

Status Indicator light

Shoot Button

Joystick

REC Button

Time-lapse Button

ON/OFF Button/ Power Display Button

Mode Button

Handle

Tilt Axis

Front and Rear Balance Adjusting Lock

Camera Mounting Plate

Charging Interface

Screw

Trigger Button
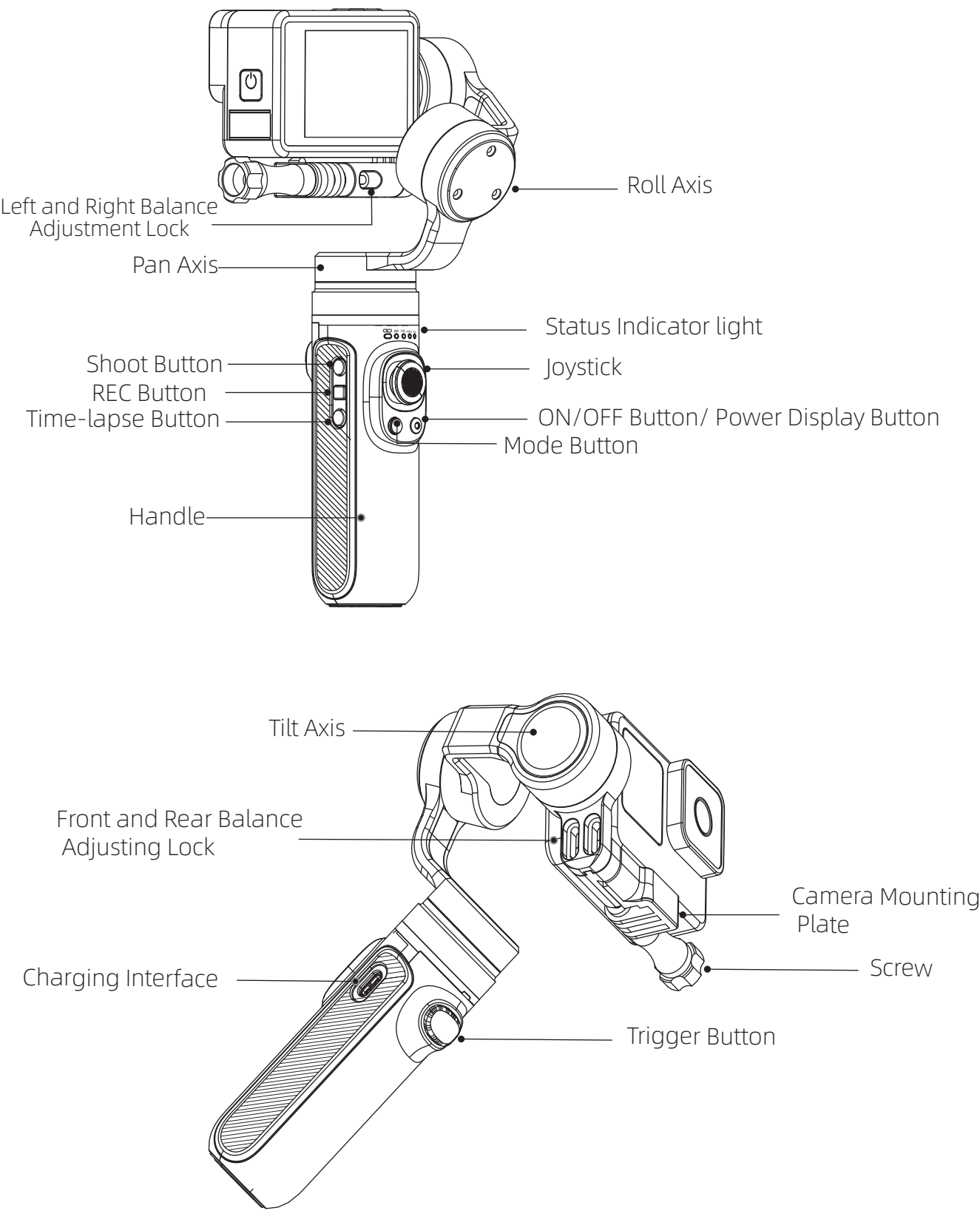
• Camera not included.

Product Usage

Charging

Use TYPE-C cable to charge. The status indicator is red when charging while the green light is always on when fully charge.

- -
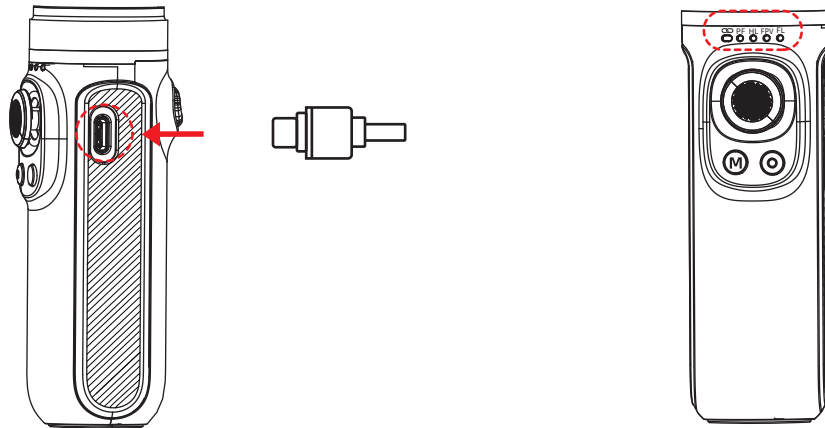
⚠ Note : • Make sure to fully charge the stabilizer when use for the first time.
- Please charge the stabilizer immediately if the power is too low and the red-light flashes slowly.
- Turn off the power if not in use.

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Installation of Action Camera

Take GoPro HERO9 as an example:
① Pull apart the bottom mounting buckle of the action camera and install it on the stabilizer.
② 2)Insert the screw into the hole corresponding to the stabilizer and then tighten the screw.
  (*If the installed camera is GoPro hero 8 or GoPro hero 9, it may cause camera lock virtual position. Please adjust the position of the camera)
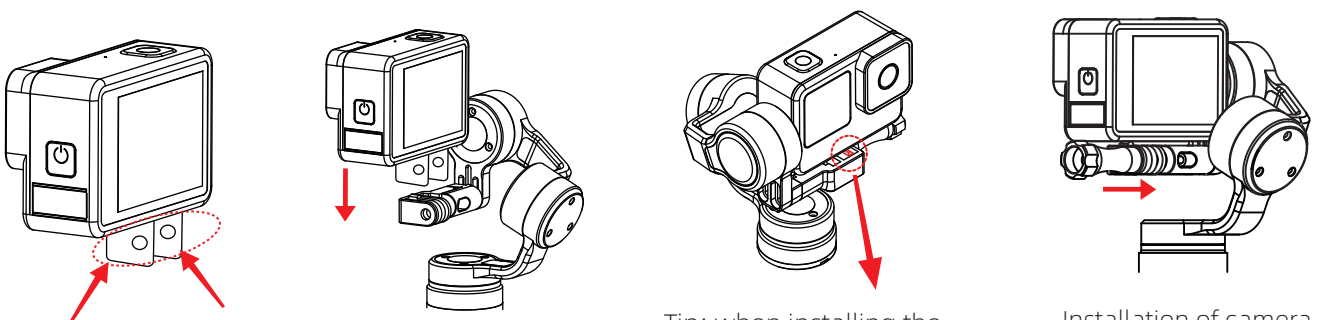
Tip: when installing the camera, keep the camera as close as possible to the camera mounting base.

Installation of camera is completed.

Balance Adjustment

1. Left and Right Balance Adjustment Lock

Determine the center of gravity of the camera. If the camera tilts to the left, it means that the center of gravity of the camera is to the left. Loosen the left and right balance adjustment locking screw ①, and move the mounting base and the camera to the right until it can keep level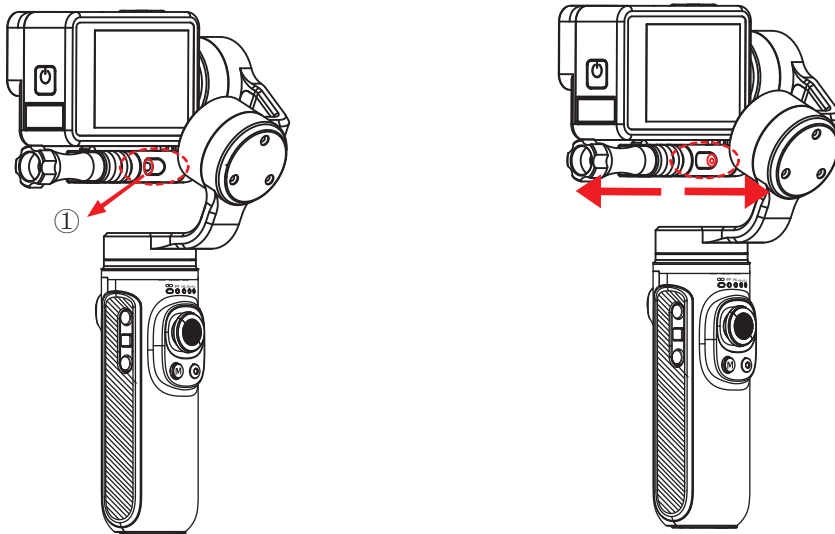 with the ground when it is still; If the camera is tilted to the right, move the mounting base and the camera to the left until it is horizontal with the ground when it is still, and then tighten the screw.

2.Front and Rear Balance Adjustment

Flip the camera so that the lens is vertically up. Determine the center of gravity of the camera. When the camera lens is tilted forward, the mounting base and the camera should be moved backward until it can keep level with the ground when it is still, and then the screw can be tightened; If the camera lens is tilted backward, the mounting base and the camera should be moved forward until it can keep level with the ground when it is still, and then the screw can be tightened.
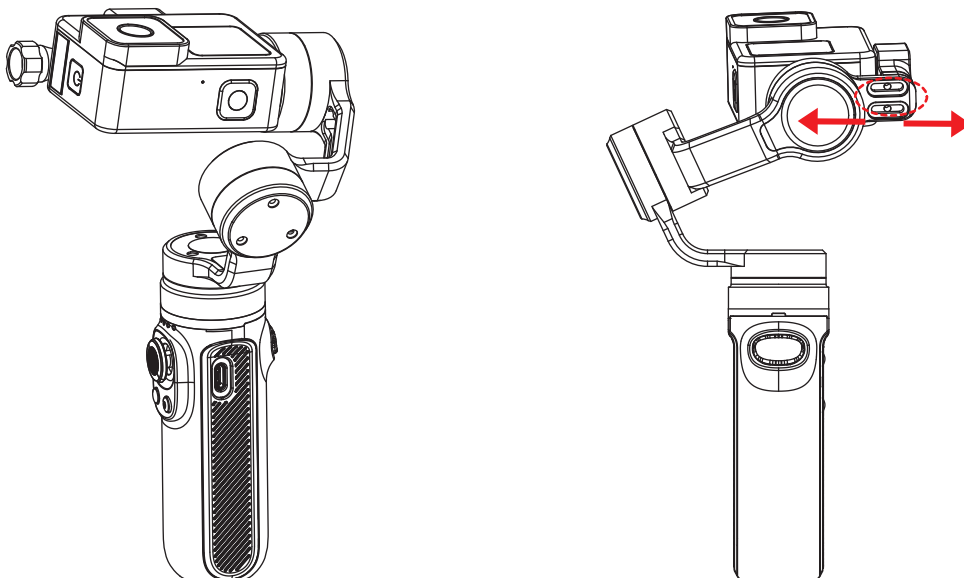
Power Button

① Under the condition of power on or off, Long press two seconds the power button to turn on or turn off the gimbal.

② Under the condition of power on or off, single press the power button to display the power of stabilizer.

③ In the boot state, double press the power button into standby mode, and then single press any button to restore the working state of the stabilizer.

④ In the boot state, continuously and quickly press eight times to clear the remote-control pairing. Too slow will trigger standby.
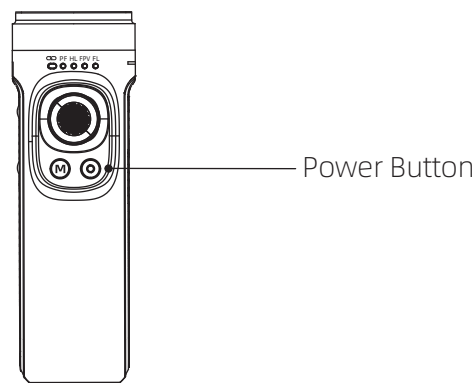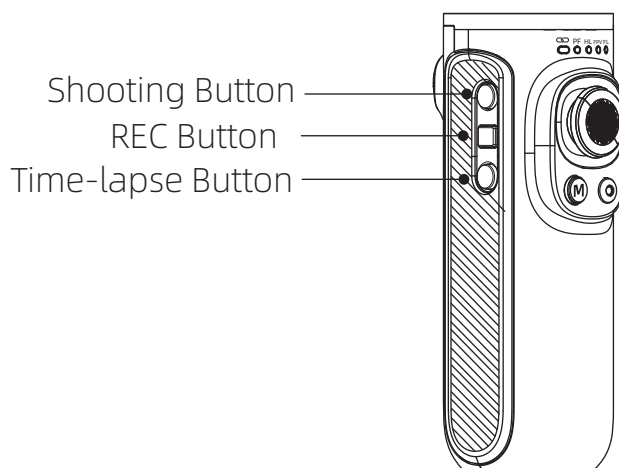
Power Button

⚠ Note: The Action Camera can only be turned on after it is firmly installed.

Shutter Button

Shooting Button: Single press to shoot
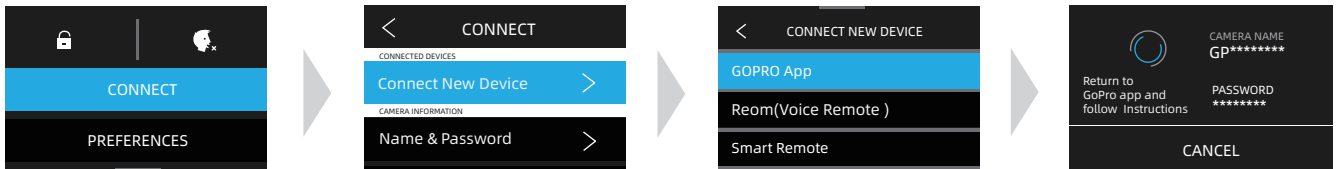
REC Button: Single press to start recording or stop.

Time-lapse Button: Single press the button to start time-lapse shooting or stop.

Shooting Button

REC Button

Time-lapse Button

Connect to device

* Turn on the gimbal before connect to a device.

① Pull out the Selection Box from top to bottom, Click on "CONNECT",

② Click on "Connect New Device", ③ Click on "GOPRO APP".

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CONNECT	
PREFERENCES	

← CONNECT
CONNECTED DEVICES
Connect New Device ❯
CAMERA INFORMATION
Name & Password ❯

← CONNECT NEW DEVICE
GOPRO App
Reom(Voice Remote)
Smart Remote

	CAMERA NAME GP********
Return to GoPro app and follow Instructions	PASSWORD ********
	CANCEL

* If the above operation fails to connect the device, remove the pairing and make the following steps, and once again repeat the above steps.

① Pull out the selection box from top to bottom, click on "CONNECT",

②Click on "Reset Connections ", ③ Click on "RESET".

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CONNECT
PREFERENCES

CONNECTED DEVICES
CAMERA INFORMATION
Name & Password ❯
Reset Connections ❯
Wireless Connections ⏻

RESET CONNECTIONS
Clear your connection list (reconnect GoPro to the required device)
CANCEL | RESET

ALL CONNECTIONS RESET
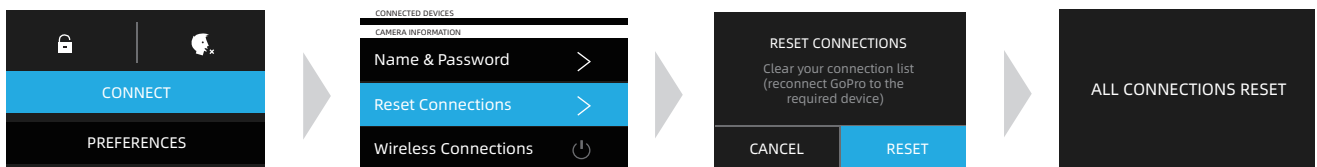
Function Operation

Mode Function

① Following Mode

Following Rotation	Following Rotation	Following Rotation
Pan Following Mode	Pan and Tilt Following Mode	Full Following Mode
Single press Mode Button	Single press the Mode Button again	Single press the Mode Button again

② Lock Mode

Locked direction
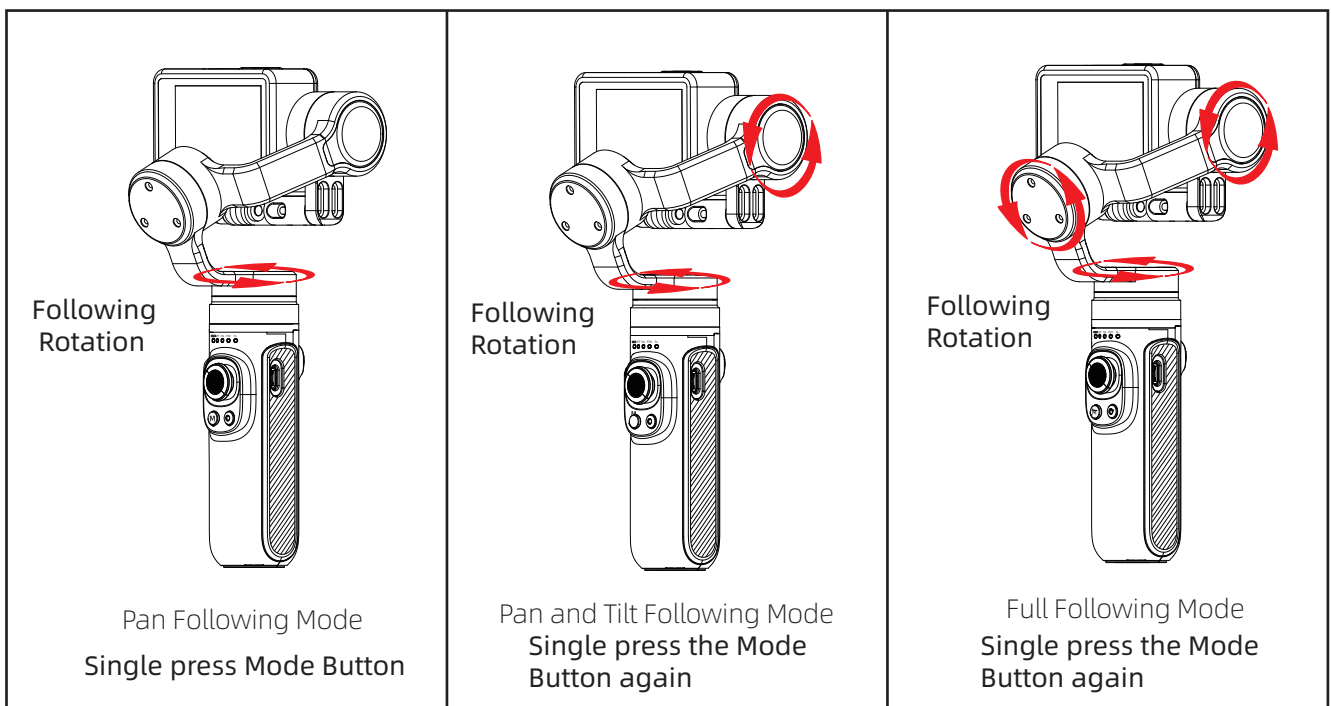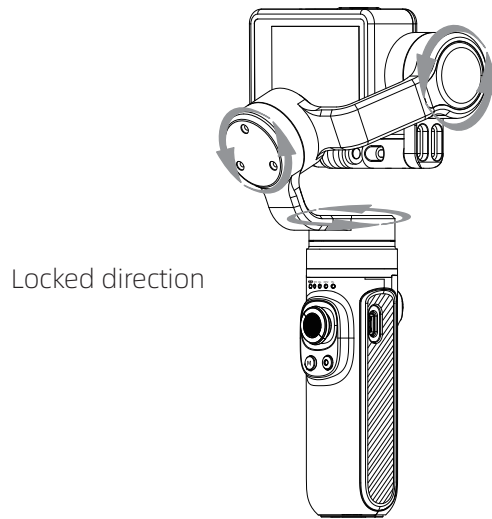
Pan and Tilt Locked Mode
Long press trigger button

⚠ The red circle indicates that the motor follows the movement of the handle to change the angle, while the gray circle indicates that the motor locks the angle and does not follow the movement of the handle.

③ Vertical shooting Mode and Flashlight Mode

Double click to enter vertical shooting mode, double click again to ener Flashlight Mode. Single click to exit to HL mode.
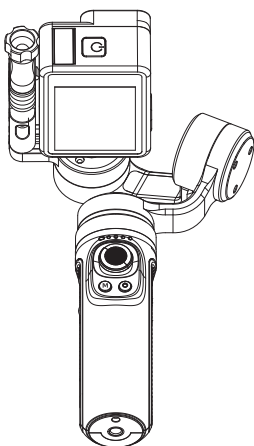
Vertical Shooting Mode   Flashlight Mode

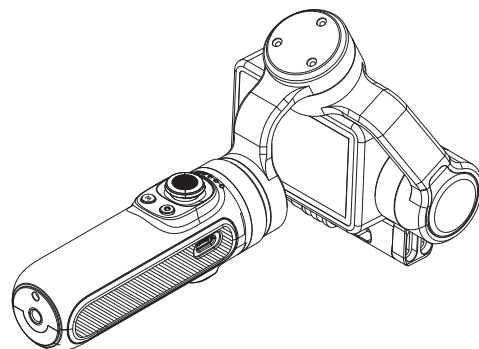| Mode	Description
Pan Follow (PF)	Tilt axis and roll axis keep the same direction, and the lens rotates with the direction of the handle.
Horizontal Lock (HL) (Default Mode)	Roll axis remains horizontal, and the lens rotates in the direction of the handle.
First Person View (FPV)	The lens follows the projection direction of the handle to simulate the first-person visual effect.
Flashlight Mode (FL)	When the handle is parallel to the ground, vertical shooting with 360 rotation can be carried out.
Global Lock (GL)	Press and hold the trigger button to enter into full lock under PF/HL mode.
Vertical Shooting	Assist the camera to shoot vertically.

Four-directional Joystick Operation

Status Indicator Light

Four-directional Joystick

Mode Button

ON/OFF Button/ Power Display Button

Up

Left   Right

Down

Joystick Operation	Description
Push upwards /downwards	Tilt axis rotates up or down
Push left/right	Pan axis rotates left or right.

Mode Switch Button

1、Illustration

① Single click to switch PF-HL-FPV mode.

② Double click to enter vertical shooting mode, double click again to ener Flashlight Mode. Single click to exit to HL mode.

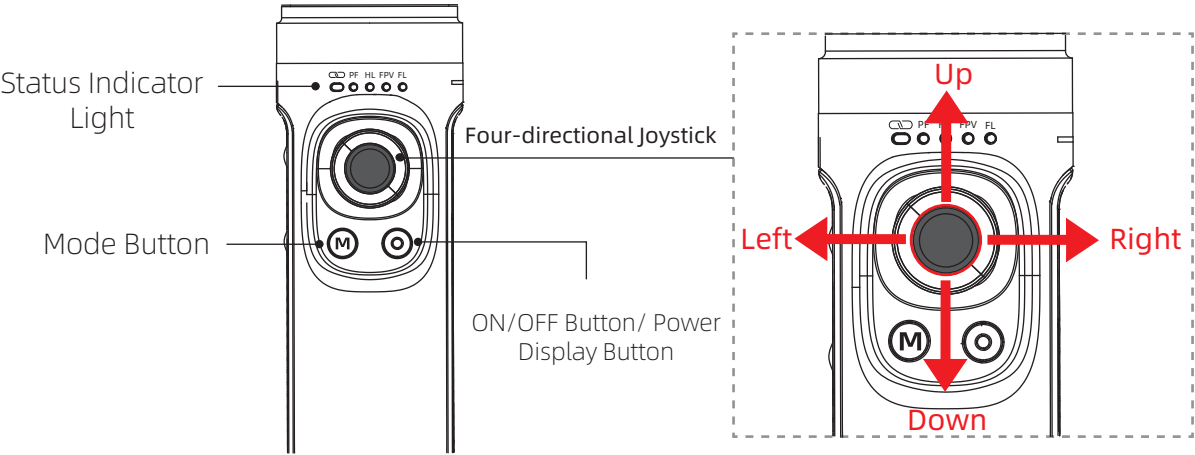③ Long press the Trigger Button to enter GL Mode(Lock Mode), release to back to previous mode(GL Mode works only under PF or HL Mode).

2、The current mode of the stabilizer can be identified by the status of the indicator light.

PF Pan Following	HL Pan/Tilt Following	FPV Three axis all Following
Vertical Mode (the indicator light flashes)	Flashlight Mode	Lock Mode
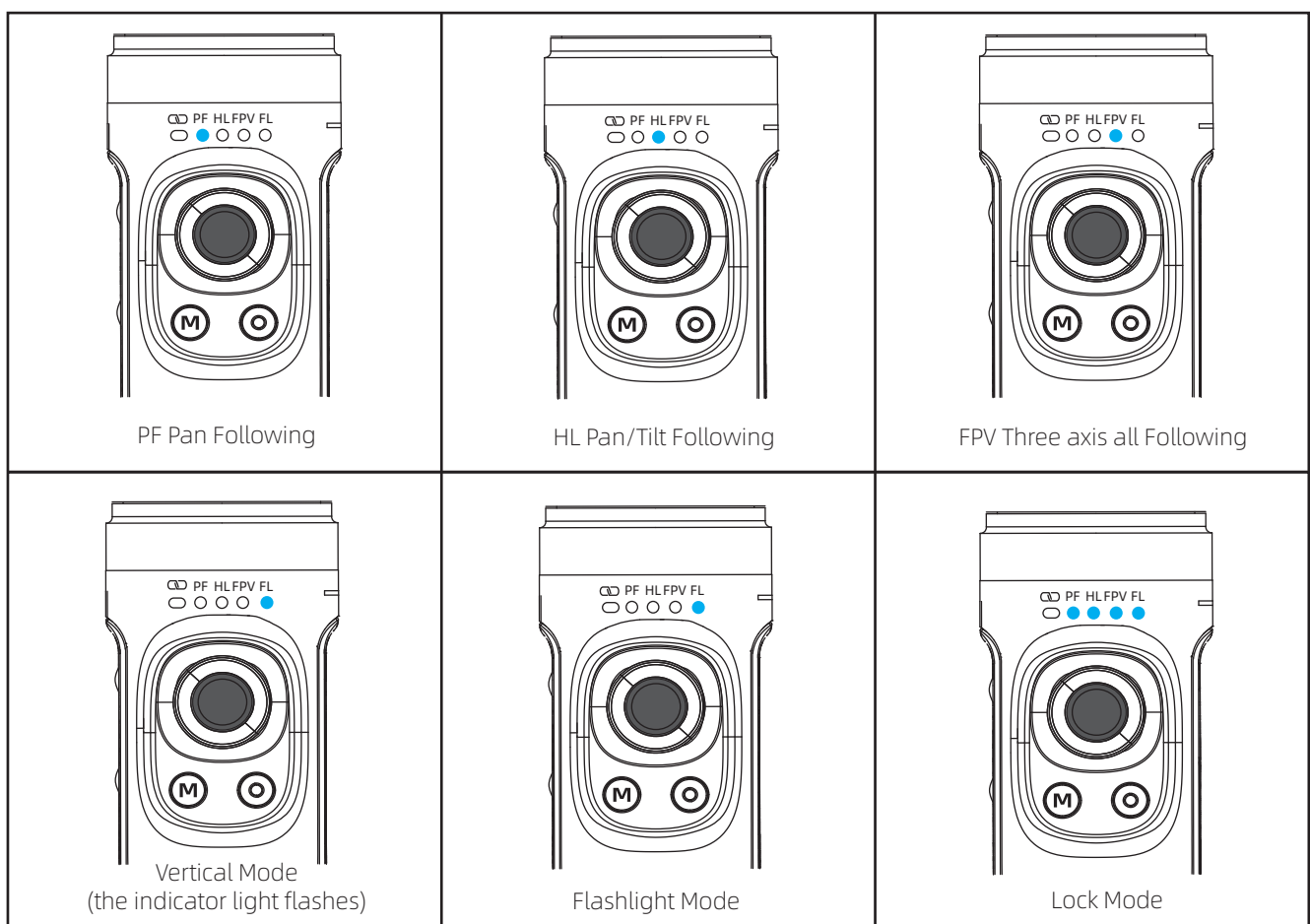
Trigger Button Operation
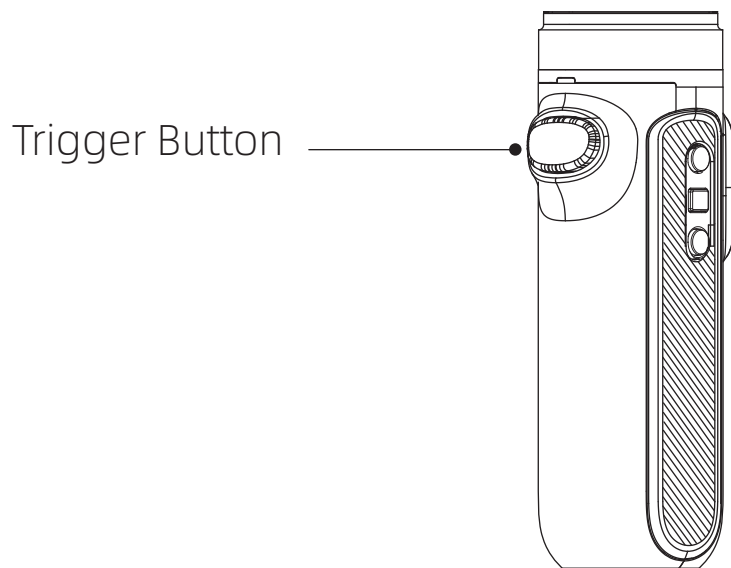
Trigger Button ⎯⎯⎯⎯⎯⎯●

Trigger Button Operation	Description
Press and hold	Into GL mode (release will back to previous mode)
Double press	Angle reset (Tilt axis and Pan axis return to initial position)
Three-times press	Selfie mode (Pan axis rotate 180 relative to initial position, Tilt axis reset at the same time)

Manual Lock

Grasp the camera and pull it to the specified angle in the tilt direction, stay for half a second and then lock the current angle.
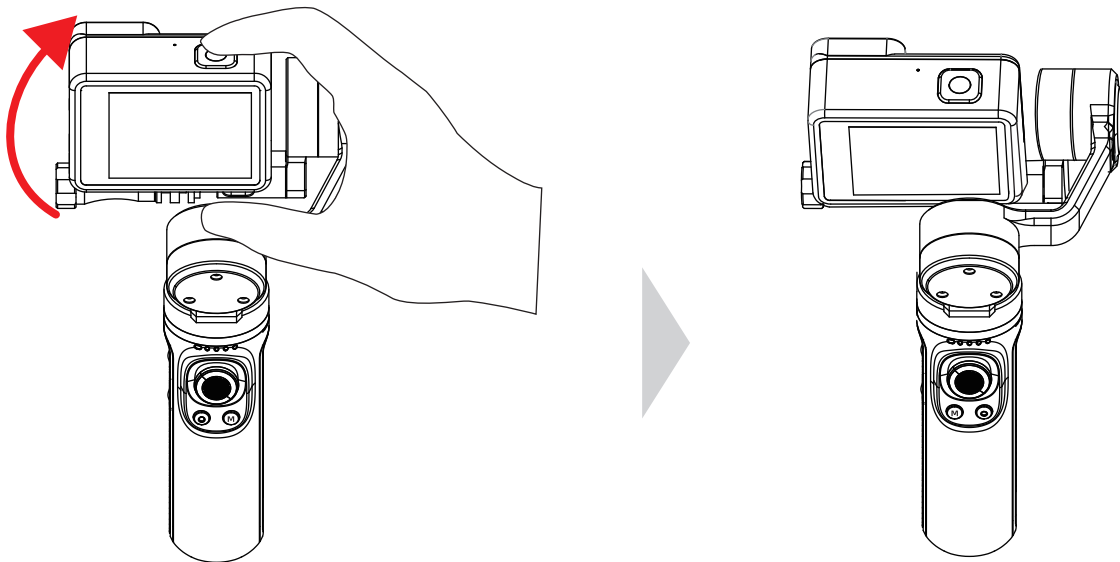
Indicator Light Status

Indicator Light Status	Description
Blue LED Light	In shutdown and standby mode, the current power is 0-25%, 25-50%, 50-75%, 75-100% from the left.
	Represent the mode state after Turning on, in proper sequence from left to right are: PF mode, HL mode, FPV mode, Flashlight mode(FL), under Lock mode(GL) the LED all bright, Vertical Shooting Mode (FL flashes).
Green LED Light	Display the Bluetooth connection status. It is always on when the Bluetooth is connected while it is always off when no connection. After pairing is cleared, the light will flash slowly during the Bluetooth scanning, if there is connected then always on if not then off light.
Red LED Light	Display the current upgrade status. The red-light flashes rapidly during upgrade, and it will turn off after three seconds when upgrade completed. When the power is lower then 10% the red-light flashes slowly, Red light flashing indicates upgrade failure

Disclaimer

> **⚠ Warning** The contents mentioned in this article are related to your safety, legal rights, and responsibilities. Please read them carefully and set up and use this product correctly according to the instructions. If you do not follow the instructions and warnings in this article, it may cause harm to you and the people around you and damage the product or the products around you. Any illegal use by any user is prohibited. The user will be responsible for all actions of purchasing and using the product. For this product, the company does not bear all the risks and responsibilities (including direct, indirect, or third-party losses) of the end customers during the debugging and use of this product. Our company will not provide any service for any products obtained from abnormal channels or for unknown purposes.

Note:

- Ensure that the motor rotation is not blocked by external force during and after the stabilizer is powered on.
- Make sure that the stabilizer is not exposed to water or other liquids.
- Do not disassemble the whole stabilizer. If it is disassembled carelessly and causes abnormal operation, please send it back for re-debugging. All the expenses arising therefrom shall be borne by the customer.
- Long time continuous operation may cause the surface temperature of the motor to rise, please operate with caution.
- It is strictly forbidden to fall or collide. Falling or colliding the stabilizer may damage it and cause abnormal operation. In case of abnormal work caused by falling or collision, please contact the after-sales department in time.

Storage and Maintenance

- Please keep this product out of the reach of children and pets.
- It is forbidden to place the product near the heat source (furnace or heater, etc.) and in the car in hot weather.
- Please store in a dry environment.
- Do not overcharge or over discharge the battery, otherwise it will cause damage to the cell.
- Do not use this product in too high or too low temperature environment.

FAQ

1、How to connect to GoPro?

① Gimbal: Continuous and fast "click eight times the power button of the gimbal".

② Gopro: need to "reset connection."

③ GoPro Hero 5: connect - > connect new device -- >GoPro application.

  GoPro Hero 6: connect - > connect new device - >GoPro application.

  GoPro hero 7: connect > connect new device - >GoPro application

  GoPro hero 8: connect > connect new device - >GoPro application

  GoPro hero 9: connect > connect new device - >GoPro application

④ After GoPro is connected to the gimbal, the connection indicator light of the gimbal will be always on.

2、Why cannot the gimbal turn on?

It maybe that the power of the gimbal is too low. Please charge for 10 minutes and then turn it on.

3、The gimbal boots vibrating?

①Check whether the installation is leveled and whether the screws are tightened. If the screws are not tightened, the gimbal may vibrate.

②If the firmware is older, please update the firmware.

4、Why does not it take effect when you press the button to take a picture, record a video or delay a photo?

Since switching from one mode to another may only trigger the mode switching without triggering the operation, please press the corresponding mode again to trigger the operation (for example, switching from the photographing mode to the video mode, the gimbal only switches to the video mode without performing the video operation, so you need to press the video button again, GoPro camera can perform recording operation).

5、What is the reason that the boot is still crooked after the installation of the gimbal?

① If the installed camera is GoPro hero 8 or GoPro hero 9, it may be caused by the virtual position of the camera lock, please adjust the position of the camera.

②Connect the gimbal to the Falcon app and perform "static calibration" and "horizontal calibration".

6、Which GoPro Action cameras are compatible with?

①Cameras can be installed: DJI Osmo action, GoPro hero 9 / 8 / 7 / 6 / 5 / 4, Sony RX0, YI, SJCAM and other similar size and weight motion cameras;

② Installable and controllable camera: GoPro hero 9 / 8 / 7 / 6 / 5.

Product Parameter
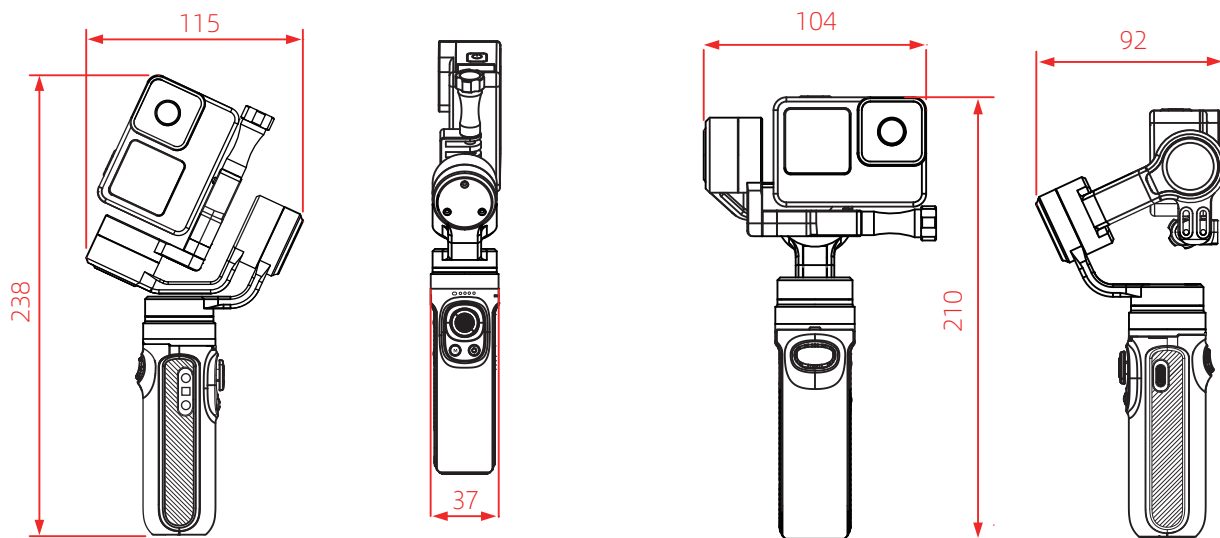
Product Dimension:	238mm×115mm×37mm (Folded Status) 104mm×210mm×92mm (Service Status)
Product Name:	Gimbal Stabilizer for Action Camera
Product Material :	Aluminium Alloy
Charging Mode:	5V2A
Charging Voltage:	5V2A
Bluetooth Version:	Bluetooth 5.0
Battery Capacity:	2500mAh
Energy:	9Wh
Product Load:	200g
Endurance Time:	Laboratory stationary placement test results are 9 hours.
Product Weight:	310g (Battery included and Tripod is not included.)
Bluetooth Device Name:	INKEE 061 + Last four digits of serial number
Remote control distance :	Within 10M

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Latest version of the User Manual is available at Official Website:
https://www.in-kee.com/en/falcon/

This manual is subject to update without prior notice. If you have
any questions or suggestions about the manual, please contact
us at the following email address:
info@in-kee.com

Official website QR code   WeChat Subscription