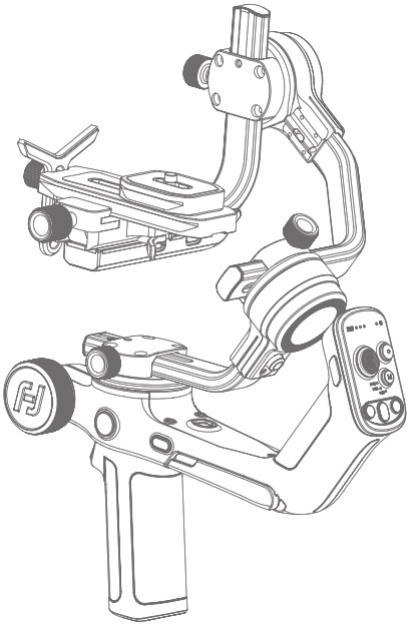
FeiyuTech SCORP-C 3 Axis Gimbal Stabilizer Instructions

Axis Gimbal Stabilizer Instructions



Tutorial Videos

https://www.feiyu-tech.com/play/136.html

Contents hide

Introduction

Feiyu SCORP-C is a professional 3-axis stabilized handheld gimbal for DSLR and mirrorless cameras developed by Guilin Feiyu Technology Incorporated Company. It is compatible with popular DSLR and mirrorless cameras on the market.
Feiyu SCORP-C is designed with a button area, multifunction knob, and touch screen, which can switch follow modes, control the rotation, image transmission transmitter, and the parameters settings by one hand. The camera shutter cable is equipped for controlling the photo taking, video recording, and focusing directly at the handle.
Feiyu SCORP-C also comes with a camera control port, image transmission port, and 2 extension ports, which support connecting the focus motor and other extension devices at the same time.

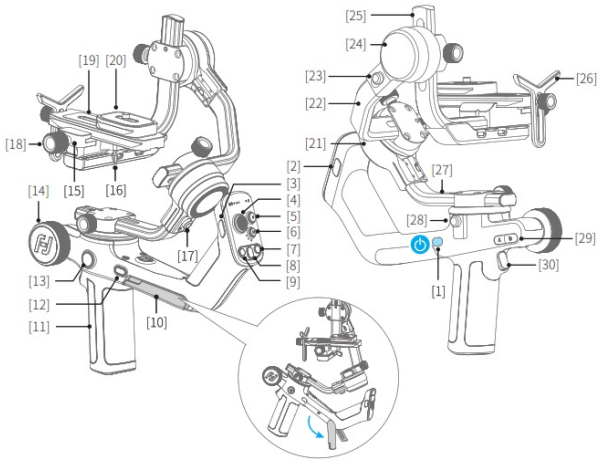
Tutorial

http://www.feiyu-tech.cn/play/

The tutorial videos can be watched at FeiyuTech official website or scan the QR code.

Overview

* Not include a camera.



[1] Power button
[2] Motor auto-tune button
[3] Portrait button
[4] Joystick
[5] Shutter button
[6] Mode button
[7] R button
[8] Auto rotation button
[9] L button
[10] Kickstand
[11] Handle
[12] FPV button
[13] Knob function switching button
[14] Multifunction knob
[15] Fixed plate slider
[16] Slider lock
[17] Roll lock
[18] Quick-release plate safety lock
[19] Quick-release plate
[20] Arca quick release plate
[21] Roll axis
[22] Cross arm
[23] Tilt lock
[24] Tilt axis
[25] Slide arm
[26] Lens holder
[27] Cross arm
[28] Pan lock
[29] A/B button
[30] Trigger button

Download the App

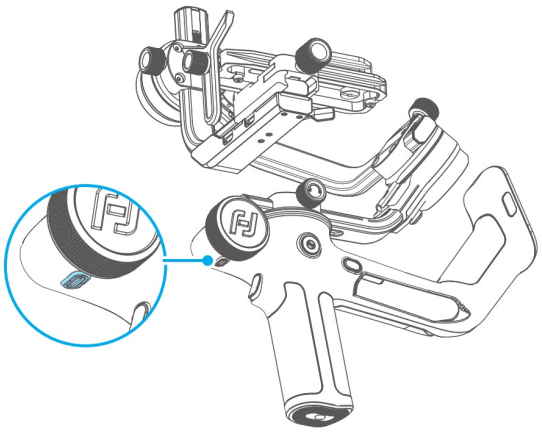
iOS
https://apps.apple.com/cn/app/feiyu-scorp/id1568214103

Android
https://cdn1.feiyuech.com/dl/app/feiyu_scorp.apk

Scan the QR code to download the app, or search for **"Feiyu SCORP"** in the App Store or Google Play. * Requires iOS 9.0 or above, Android 6.0 or above.

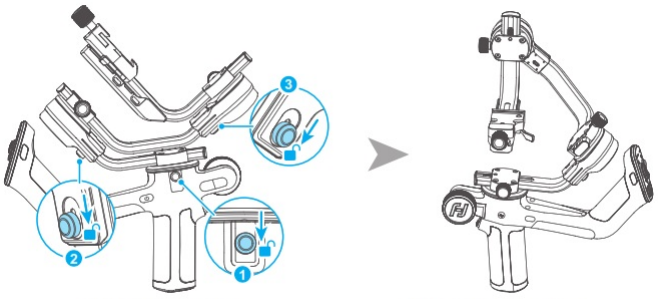
Getting started

1. **Charging**



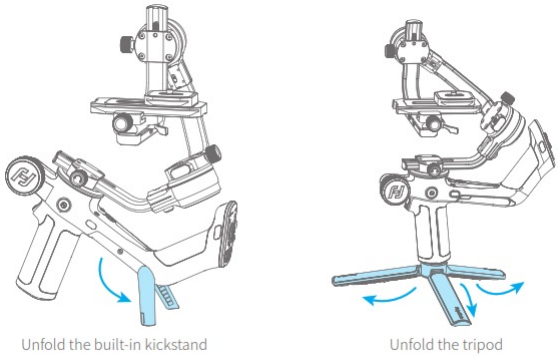
Please fully charge the battery before powering on the gimbal for the first time. Charging with USB 2.0 to Type-C cable, supports quick charge.

2. **Adjust the gimbal to a gimbal balancing position**



The gimbal is folded by default, please unlock all three axes and adjust the gimbal to gimbal balancing position, and then lock the three axes

3. **sing support stand**

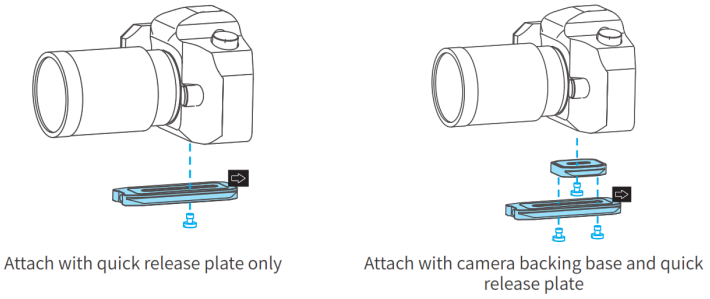


Users can unfold the built-in kickstand or install a tripod to place the gimbal on a flat surface.

Mounting the Camera

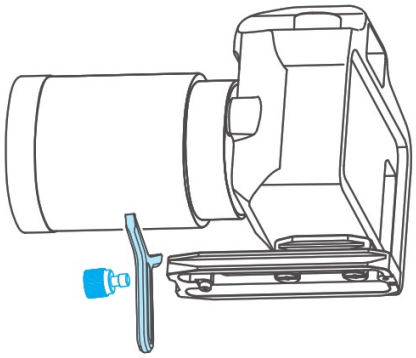
Before mounting the camera, make sure the camera is ready for shooting (Install the camera lens, and the lens cover should be removed, the memory card and battery needs to be inserted to the camera, and the battery is fully charged) , complete all the steps which mentioned in chapter “2. Getting started” and the gimbal is adjusted to gimbal balancing position. Make sure the gimbal is powered off or in sleep mode before mounting the camera.

1. **Attach the quick release plate and camera backing base(Optional)**



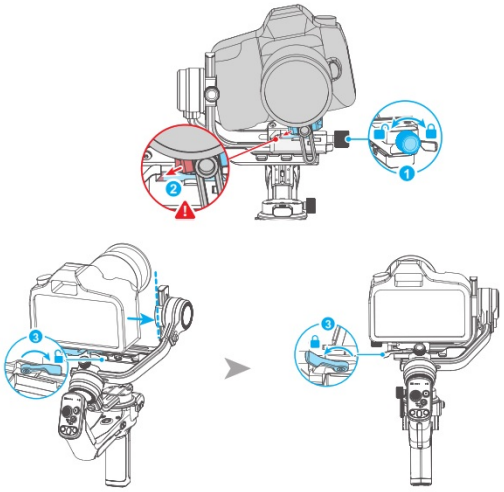
Attach the quick release plate to the camera by tightening the screw. User can choose to attach the camera backing base if needed (For example, when using a long or heavy lens). Attach the camera backing base to the camera,then attach it to quick release plate by tightening 2 screws.

2. **Install lens holder (Optional)**



Install the lens holder on the quick release plate if needed, the rubber of the lens holder must be directly under the lens. It is recommended to use the lens holder when using a long or heavy lens.

3. **Mount camera on a gimbal**



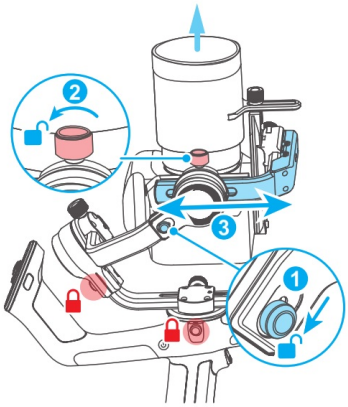
Unlock the quick-release plate safety lock ①, install the plate with the mounted camera into the slot ② in direction of the icon, and lock the safety lock ① once the camera is roughly balanced. It is recommended to push the camera against the tilt axis. Unlock the slider lock ③ to move the camera left or right according to the camera's width, then lock the slider lock ③.

Gimbal Balancing

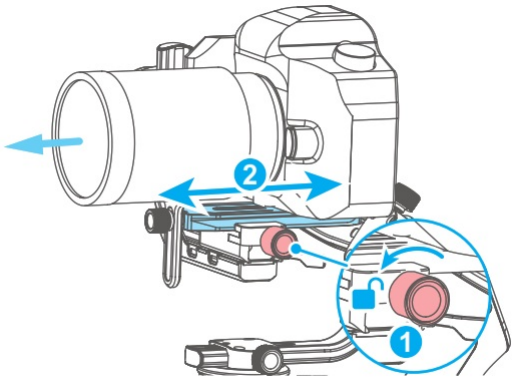
Please balance the gimbal before shooting. Make sure the camera and lens are ready for shooting, and the gimbal is powered off or in sleep mode before balancing. It is recommended to hold up the camera first, then move the slide arm, cross arm and vertical arm. Tutorial Videos

Tutorial Videos **https://www.feiyu-tech.com/play/136.html**

1. **Balancing the tilt axis**
   1. Balancing the vertical tilt

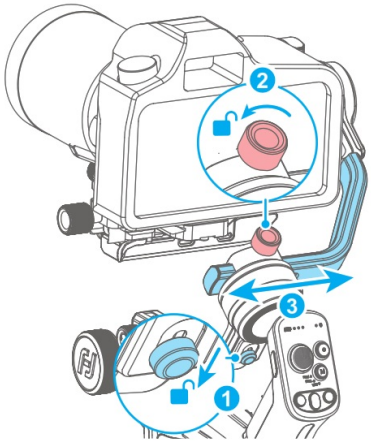


a. Unlock the tilt lock ① , and loosen the slide arm lock knob ② .
b. Rotate the tilt axis so that the camera lens is pointing upward. Check the direction in which the lens tilts.
c. If the lens tilts to one side, then the camera is that side heavy, move the slide arm ③ to the opposite direction, until the camera is steady pointing upward.
d. Tighten the slide arm lock knob ② while holding the camera.
2. Adjust depth for the tilt axis



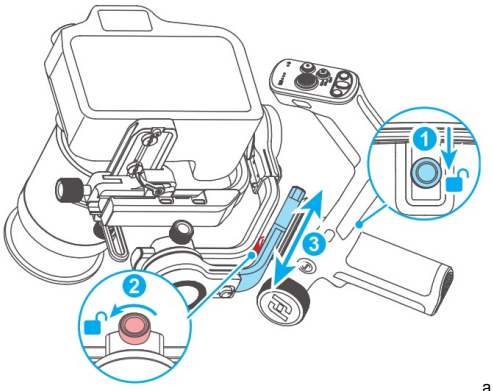
a. Rotate the tilt axis so that the camera lens is pointing forward. Check the direction in which the lens tilts.
b. If the lens tilts to one side, then the camera is that side heavy, unlock the quick release plate safety lock ① and then move the quick release plate to the opposite direction, until the camera is steady pointing forward.
c. Lock the quick release plate safety lock ① while holding the camera. The tilt axis is balanced when the camera is steady while tilted up or down by 45° .

2. **Balancing the roll axis**



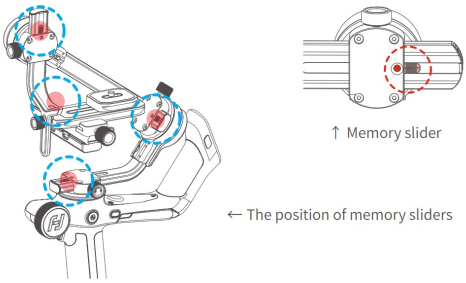
a. Unlock the roll lock ①, and check the direction in which the camera tilts.
b. If the camera tilts to one side, then the camera is that side heavy, loosen the cross arm lock knob ② and then move the cross arm to the opposite direction, until the camera can stay still and horizontal to the ground.
c. Tighten the cross arm lock knob ②. The roll axis is balanced when the camera can stay still and horizontal to the ground.

3. **Balancing the pan axis**



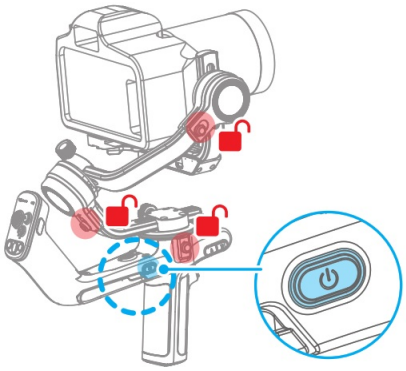
a. Unlock the pan lock ① . Hold the tripod, and tilt the gimbal forward until it is horizontal to the ground.
b. If the camera tilts to one side, then the camera is that side heavy, loosen the vertical arm lock knob ② and then move the vertical arm ③ to the opposite direction, until the camera can stay still and horizontal to the ground.
c. Tighten the vertical arm lock knob ②. The pan axis is balanced when the camera can stay still and horizontal to the ground.

4. **Using the memory slider**



Feiyu SCORP-C comes with a memory slider which can make balancing easier. After balancing the gimbal, move the memory slthe ider to the hole in axis, and make the red dot on the memory slider exposing the hole, in order to mark the current position.
Next time, If the objects which users mount are the same, users can just move the axis to the position which can make the red dot exposed from the hole to make the gimbal balanced.

Power ON/ OFF

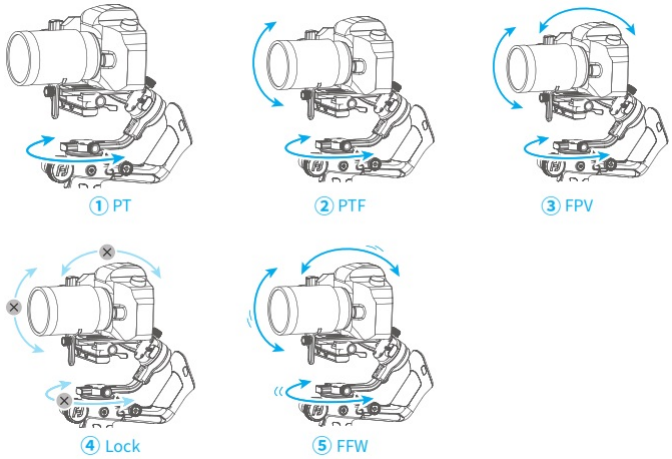


1. ⚠Before powering on the gimbal, make sure you have a balanced gimbal and unlocked all three axes.
2. If you haven't unlocked all the 3 axes, the gimbal will enter sleep mode to protect itself. Please single tap the power button to wake up the gimbal after unlocked all the 3 axes.

! Please set motor power first after powering on a gimbal for the first time or after changing a new camera/lens.
Long press the power button and release it when you hear the beep sound to power on/ off.

Function/Modes introduction

1. **Follow modes introduction**

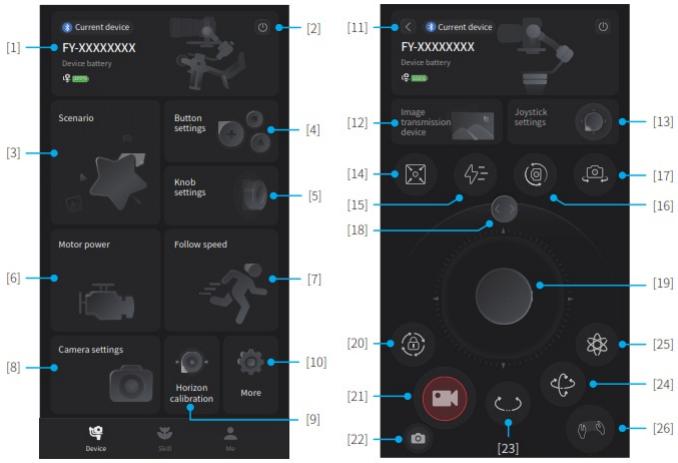


① **PF** (Default mode)
Pan follow, only the pan axis follows the movement of the user's hand.
② **PDF**
Pan and tilt follow, where both the pan and tilt axes follow the movement of the user's hand, but the roll axis does not.
③ **FPV**
Pan, tilt and roll follow, where all 3 axes follow the movement of the user's hand.
④ **Lock**
All 3 axes do not follow the movement of the user's hand, the gimbal keeps the direction of the camera fixed.
⑤ **FFW**
Flash follows, where all 3 axes follow the movement of the user's hand in a high follow speed.

2. **Other function introduction**
Auto rotation
The camera will auto-rotate to shoot according to the rotation speed and direction set by users. It can be used to achieve the image rotating scene which has been used frequently in the movie Inception.
Portrait mode
Enter portrait mode for recording portrait video or live streaming.
Selfie mode
The camera turns 180° horizontally, and selfie-shooting is available.
Track video
Record track video according to the waypoints which have been set via Feiyu SCORP App .
Manual lock
Manually move the camera to the desired position, and hold for half a second. New tilt /pan positions are automatically saved.

App Connecting

7.1 Connect with Feiyu SCORP APP
(1)Turn on the gimbal
(2)Turn on the smartphone Bluetooth, run the Feiyu SCORP APP, and tap the top of the home page to connect the gimbal.
After the connection succeeds, it's easy to control the gimbal via APP, including controlling the pan and tilt axis angle with the virtual joystick, switch modes, set motor power/ camera parameters/follow speed, set other functions, and parameters, and updating the firmware.
7.2 Function introduction of APP



1. **Gimbal control access**
   Display the product name and device battery of the current connecting gimbal, tap to enter gimbal operation interface, which allows user to use virtual joystick to control gimbal, switch follow modes, recenter gimbal, and adjust horizontal angle manually. When not connected to the gimbal, prompt user to connect with the gimbal.
2. **Disconnect the device**
   Tap to disconnect the current connecting device.
3. **Scenarios**
   Provide auto rotation (can be used to achieve the image rotating scene which has been used frequently in the movie Inception), panorama, timelapse (Motionlapse/Static timelapse/Hyperlapse), track video and other usage scenarios for the user.
4. **Button settings**
   Set the function when pressing and holding the trigger button. Set auto focus time, and attitude change time for the A/B button.
5. **Knob settings**
   Set the control object for the multifunction knob, can be set as control axes, control electronic focus, control focus motor. Set damp, speed, smooth, sound and indicator light for two knobs in “More”.
6. **Motor power settings**
   Adjust tilt, roll, and pan axes motor power manually or use auto-tune function to tune the motor power automatically (Recommended).
   ⚠Please set motor power first after powering on a gimbal for the first time or after changing a new camera/lens.
7. **Follow speed**
   Select different preset gimbal follows speed profiles: Slow/Med/Fast or custom follow speed and dead zone.
8. **Camera settings**
   Can set camera aperture, shutter speed, and ISO parameters after connecting with the camera.
9. **Horizon calibration**
   Calibrate the gimbal with the auto-calibration function(Recommended) or adjust it manually (When not in FPV or FFW mode).
10. **More**
    Set boot silent, disable selfie, manual lock, check firmware information and update firmware, and restore the default settings.
11. **Back**
    Tap to return to the home page.
12. **Connect with an image transmission device**
    Tap to connect the image transmission device.
13. Joystick settings Can set the joystick speed for controlling the pan/tilt axis, and the joystick as pan axis/tilt axis inverted.
14. **Recenter**
    Tap to recenter the gimbal.
15. **Flash follows (FFW)**
    Tap to enter Flash follow.
16. **Portrait mode**
    Tap to enter portrait mode.
17. **Selfie mode**
    Tap to enter selfie mode.
18. **Adjust horizontal angle**
    Slide the slider to control the roll axis to adjust the current horizontal angle.
19. **Virtual joystick**
    Use a virtual joystick to control the pan and tilt axis.
20. **Lock mode**
    Tap to enter lock mode.
21. **Shutter**
    Tap to start/stop recording or take a photo.
22. **Switch between photo/video mode**
    Tap to switch between photo/video mode
23. **Pan follow (PF)**
    Tap to enter pan follow (PF) mode.
24. **Pan and tilt follow (PTF)**
    Tap to enter pan and tilt follow (PTF) mode.
25. **FPV**
    Tap to enter FPV mode.
26. **Motion sensing mode**
    Tap to enter motion sensing mode which can control the pan and tilt axis to follow the movement of the smartphone, can not switch follow modes in motion-sensing mode (PF/PTF/FPV/Lock).

Operation

8.1 Button operation

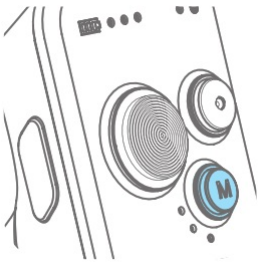
1. **Power button**

Long press: Power on/off

Single tap: Wake up

Double-tap: Enter sleep mode

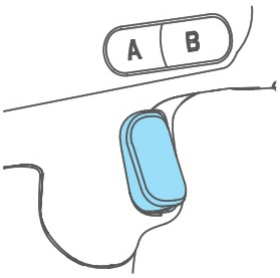
2. **Mode button**



Single tap: Switch among Lock/PF/PTF/ FPV/ FFW mode (Switch in turn)

Tap five times: Horizon calibration(Single tap to wake up after calibration is completed)

3. **Trigger button**

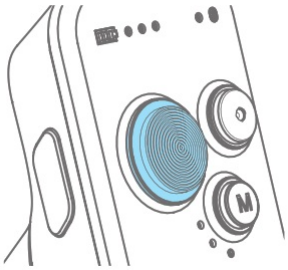


Double-tap: Recenter

Triple tap: Enter/Exit selfie mode (Pan axis turns 180°)

Press and hold: PTF (Release to exit) You can custom the function via the APP

4. **Joystick**



Push: Control the movement of the tilt and pan axes.

5. **Shutter button**

Press halfway: Focus

Single tap (Fully): Start/stop recording

Long press (Fully): Take photo

6. **Auto rotation button**

Single tap: Enter auto-rotation mode

Single tap again: (1) Exit auto-rotation mode (When the gimbal is not rotating) (2) Pause the rotation (When the gimbal is rotating)

7. **L button**

Single tap: Turn left continuously

Single tap again: Switch rotating speed (Switch cyclically among Slow/Med/Fast orderly, the preset speed is Med) Active in auto rotation mode

8. **R button**

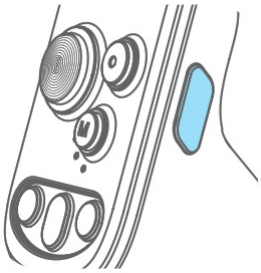
Single tap: Turn right continuously

Single tap again: Switch rotating speed (Switch cyclically among Slow/Med/Fast orderly, the preset speed is Med) Active in auto rotation mode

9. **Portrait button**

Double-tap: Enter/Exit portrait mode

10. **Motor auto-tune button**

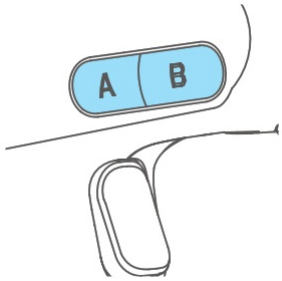


Long press for 5s: Enter motor power auto-tune process Gimbal start auto-tunes motor power after a long beep, and the long beep sound ring again after autotuning is completed.

11. **button**

Single tap: Enter/Exit FPV mode

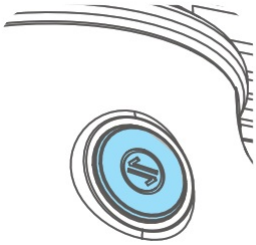
12. **A/B button**



Long press: Mark the current position as A/B

Single tap: Return to the position A/B that you have marked Can be used to mark axes/focus position.

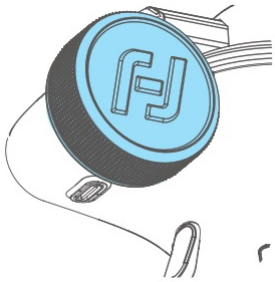
13. **Knob function switching button**



Single tap: Switch the control object while controlling the movement of the 3 axes (Tilt/ Pan/Roll)

Long press: Switch the control options of the Multifunction knob in turn (The movement of the 3 axes/Electronic focus/Focus motor)

14. **Multifunction knob**



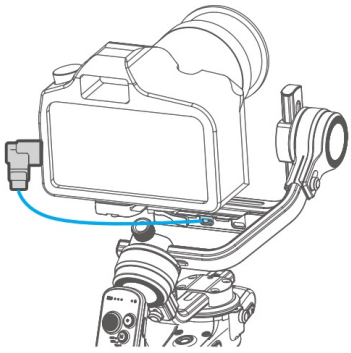
Turn (1) Control the movement of the roll, tilt, and pan axes.

(2) Control focus.

(3) Contol focus motor.

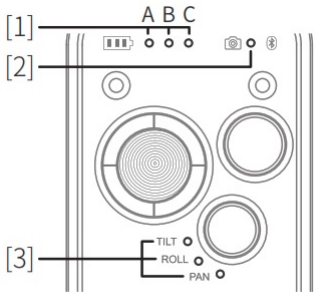
Set the current control option as an option (1) or (2) or (3) by long-press the knob function switching button or swipe up in a home page.

*Need to connect with the camera. Refer to the camera compatibility list on: **https://www.feiyu-tech.cn/feiyu-scorp-c/**



Connect camera with shutter cable

8.2 Indicator



1. Battery indicator A/ B/C
2. Camera/Bluetooth indicator
3. Follow status indicator

TILT = Tilt axis
ROLL= Roll aims
PAN = Pan axis
The indicator is on which means the corresponding axis follows the e movement of the user's hand.

Camera/Bluetooth indicator instruction

Camera connection	Bluetooth connection	Indicator
√	√	
√	x	
x	√	
x	x	

Follow status indicator instruction

Mode	Mode	Mode	Mode
Lock	○	○	○
PF	○	○	●
PDF	●	○	●
FPV	●	●	●
FFW	●●●	●●●	●●●
Auto rotation	●	●	●

Battery indicator instruction

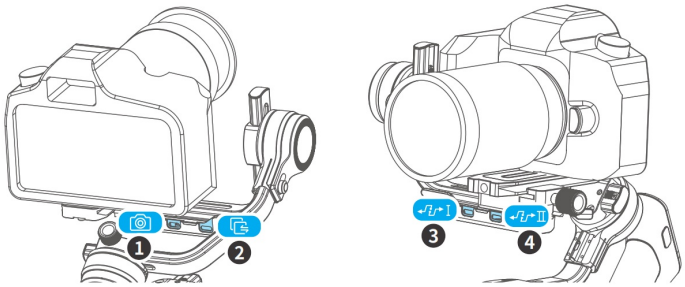
Battery level	**ABC**
100%	●●●
80%	●●◐
60%	●●○
40%	●○◐
20%	●○○
10%	○○
Low power, will auto-power off	●○○

Icon:

●/●/◐/●	Light of the corresponding color is on	●●▭ ●●▭	Blue light keeps flashing twice
○	Light is off	●●▬ ●●▬	Blue light flashes twice then grow
●●●	Blue light flashes quickly		solid blue for 1.5s keeps repeating

8.3 Control ports

There is a camera control port, an image transmission port, and 2 extension ports on the fixed plate e, to connect focus motor and other extension devices.



① Camera control port
② Image transmission port
③ Extension port 1/Focus motor port 1
④ Extension port 2/Focus motor port 2

Specifications

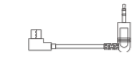
Product name	Feiyu SCORP 3-Axis Camera Handheld Stabilizer
Product model	Feiyu F2
Max. Tilt Range	+120° ~ -201°
Max. Roll Range	+215° ~ -106°
Max. Pan Range	360°
Weight	About 1200g
Payload Capability	About 2500g (Well-balanced)
Battery life	13 Hours
Battery	2500mAh
Operating Voltage	6.8V-8.4V
Compatible Cameras	Sony, Canon, Nikon, Panasonic cameras etc. (Please download the detailed manual for the specific compatible camera and lens)

Accessories

USB 2.0 to Type-C
×1

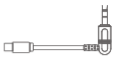
Type-C to Micro(A03)
×1

Type-C to Type-C (C02)
×1



Type-C to TRS2.5 (T02)
×1

Type-C to Multi
Sony shutter cable
×1



Type-C to 2.5mm Panasonic
shutter cable (DC2.5mm)
×1

Tripod
×1

Quick release plate
×1

Camera backing base
×1

Lens holder
×1

Lens holder screw
×1

Camera fixed screw
×3

Notice

1. Make sure motor spinning is not blocked by external force when the product is powered on.
2. The product DO NOT contact water or other liquid if the product is not marked waterproof or splashproof. Waterproof and splash-proof products DO NOT contact seawater or other corrosive liquid.
3. DO NOT disassemble the product except marked detachable. It need send to FeiyuTech after-sales or an authorized service center to fix it if you accidentally disassemble it and cause abnormal work. The relevant costs are borne by the user.
4. Prolonged continuous operation may cause the product surface temperature to rise, please operate carefully.
5. DO NOT drop or strike the product. If the product is abnormal, contact Feiyu After-sales support.

Storage and Maintenance

1. Keep the product out of the reach of children and pets.
2. DO NOT leave the product near heat sources such as a furnace or heater. DO NOT leave the product inside of a vehicle on hot days.
3. Please store the product in dry environment.
4. DO NOT overcharge or overuse the battery, otherwise, it will cause damage to the battery core. It does not use the product for a long time, please charge it at least once within one month
5. Never use the product when the temperature is too high or too low.

FCC regulatory conformance:
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

NOTE
The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.
RF Exposure
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

Website

Facebook

https://www.facebook.com/feiyutech

https://www.facebook.com/feiyutech

Youtube

Twitter

https://www.youtube.com/user/FeiyuChannel

http://www.twitter.com/feiyutech

Instagram

https://www.instagram.com/FeiyuTech

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Documents / Resources

FeiyuTech SCORP-C 3 Axis Gimbal Stabilizer [pdf] Instructions
SCORP-C, 3 Axis Gimbal Stabilizer, Gimbal Stabilizer

FeiyuTech Scorp-C 3-Axis Gimbal Stabilizer [pdf] User Guide
FEIYUF2C, 2AHW7-FEIYUF2C, 2AHW7FEIYUF2C, Scorp-C 3-Axis Gimbal Stabilizer, Scorp-C, 3-Axis Gimbal Stabilizer, Gimbal Stabilizer, Stabilizer

References

- FeiyuTech - Official Website
- Feiyu SCORP C , -
- Teaching video