



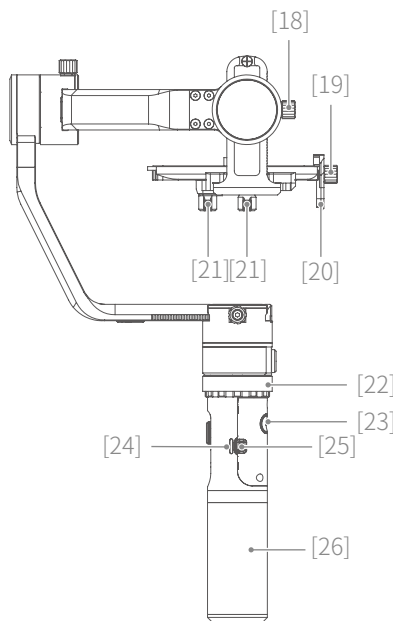
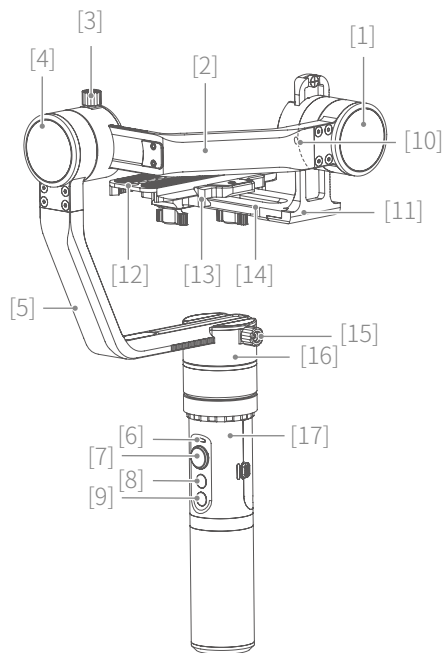
a2000

3-Axis Gimbal for Mirrorless and DSLR Cameras

Guilin Feiyu Technology Incorporated Company

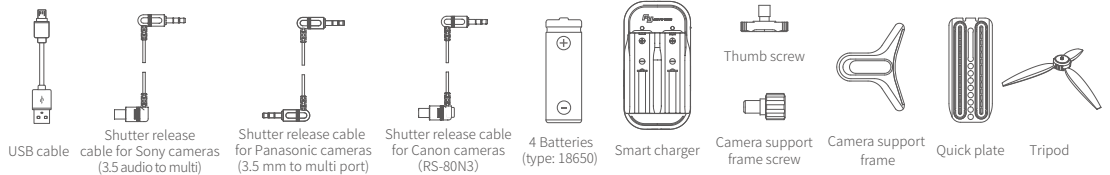
User Manual EN V2.3

1. Product Overview



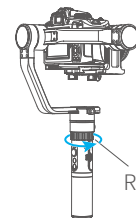
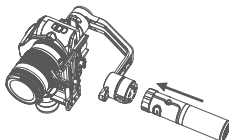
- [1] Tilting axis
- [2] Cross arm
- [3] Rolling lock screw
- [4] Rolling axis
- [5] Vertical arm
- [6] Status indicator
- [7] Joystick
- [8] Function button
- [9] Shutter button
- [10] Shutter cable socket
- [11] Sliding arm
- [12] Quick plate
- [13] Adjustment skateboard
- [14] Adapter(Clamping plate)
- [15] Panning lock screw
- [16] Panning axis
- [17] Socket connector
- [18] Tilting lock screw
- [19] Camera support frame screw
- [20] Camera support frame
- [21] Thumb screw
- [22] Retaining ring
- [23] Trigger button
- [24] Charging indicator
- [25] USB interface
- [26] Handle

Included Accessories



Installation Way

Single Handle



Retaining ring

Advanced Accessories (double-hand foldable set)

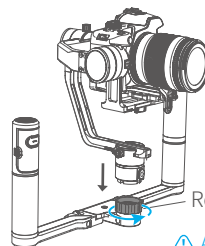
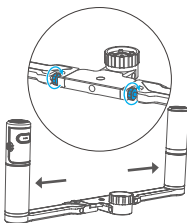
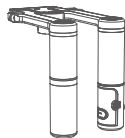


1/4-20
inch screw



Cold shoe
mount

Double-Hand Foldable Set (optional)



Retaining ring

⚠ After installation, please
tighten the retaining ring

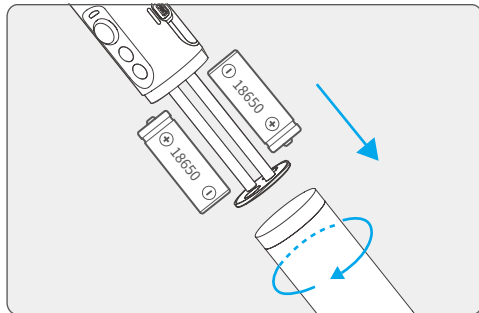
2. User Guide

Attention: please read the following instructions before turning on the power on the gimbal

1 Insert the Batteries

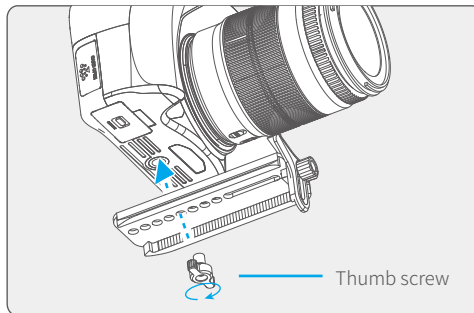
Prior to use, please be sure to fully charge the batteries.

Remove the handle, insert 2 pcs 18650 batteries and tighten the handle.



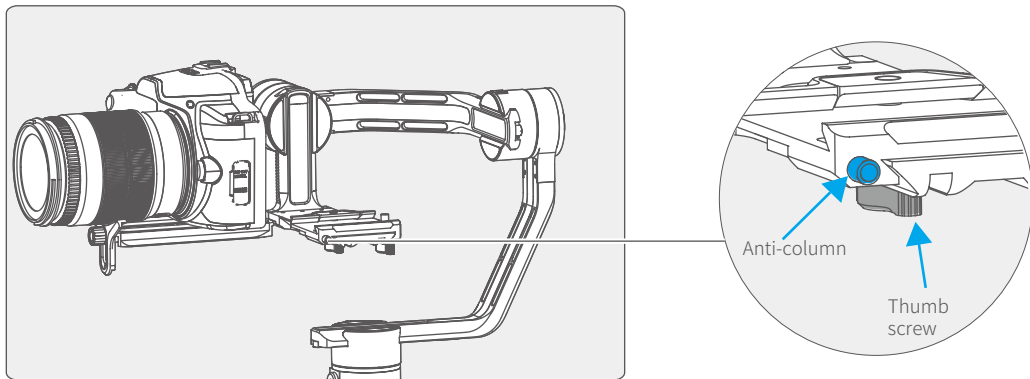
2 Attach Camera

(1) Remove the quick plate from the gimbal. Insert the provided 1/4-20 screw into a mounting hole on quick plate. For a front-heavy camera (i.e. bigger, heavier lens), select a mounting hole closer to the back end of the quick plate to ensure proper balance.



*The screw is screwed into the threaded holes on the quick plate.

- (2) After installing the camera, press and hold the anti-column, place the quick plate with mounted which the camera is mounted on the clamping plate, and tighten the screws.



3 Balance Adjustment

Adjust the centre of gravity balance of the three axis (see section [9. Balance Adjustment](#) for details) then turn on the gimbal.



Note: centre of gravity imbalance can lead to stable performance degradation, and may not balance the camera.

4 Power On/Power Off

Power on: press and hold the function button until the green light on and you hear the tone.

Power off: press and hold the function button until the red light changes from quick flashing to constant and you hear the tone.

3. Modes / Functions

Operating Instructions

| Function button | Function | Explanation |
|-----------------|--------------------------|---|
| One tap | Panning Mode | Default mode |
| Two taps | Panning and Tilting Mode | Under panning and tilting mode, control the rolling axis by moving the joystick to the left or right, and the control angle is - 30 °~+ 30° |
| Three taps | Rotate horizontal 180° | Make the camera lens rotate 180 °(the current mode of work does not change) |
| Four taps | Autorotation Mode | Both the panning and tilting directions can be rotated |
| Five taps | Initialization | After the initialization succeeds or fails, you can click the function button to wake up the gimbal |
| Trigger button | Function | Explanation |
| Long press | Lock | In the panning mode or panning and tilting mode, press and hold lock shortcuts to enter the lock mode, release to return before mode |
| Two taps | Reset | Return to panning mode, tilting and rolling to return to initial level |

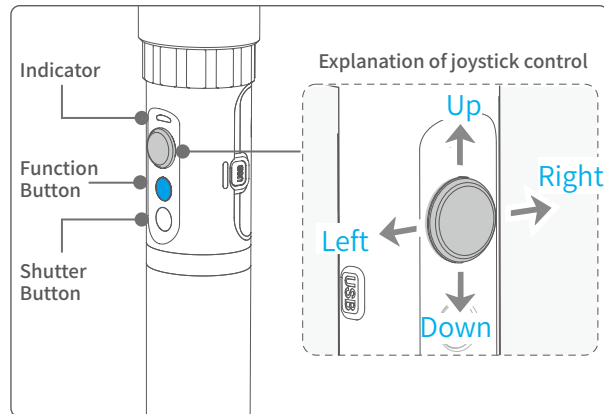
Explanation of LED Indicator Status

The current mode of the gimbal can be identified by the indicator status.

| LED indicator status | Mode / status |
|-------------------------------|--------------------------------------|
| Blue light flashes once | Panning Mode |
| Blue light flashes twice | Panning and Tilting Mode |
| Blue light constant on | Lock mode / initialize the gimbal |
| Blue light keeps flashing | Initialization failure / malfunction |
| Red light flashes three times | Low battery |
| Red light keeps flashing | Entering power off |



In case of low battery the indicator light will flash red three times every 5 seconds. Please charge gimbal or replace batteries.



Working Modes

Panning Mode (default mode)

Tilting and rolling direction are fixed, and the camera lens moves according to the handle movement.

Panning and Tilting Mode

The rolling direction is fixed, and the camera lens moves according to the hand movement.

Lock Mode

The orientation of the camera is fixed.

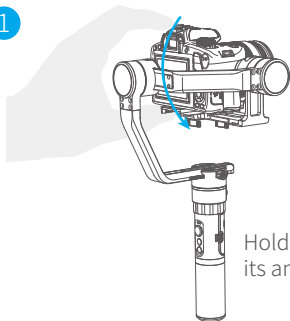
Reset

Return to panning mode, tilting and rolling to return to initial level.

Manual Lock

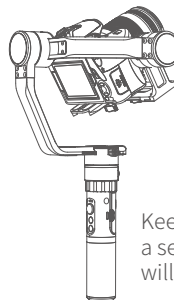
Pull to the required angle and hold for half a second to lock in that position. (The tilting axis and panning axis in lock mode can be manual. The tilting axis can be manually locked in the panning mode.) Take the tilting axis as an example:

1



Hold the camera and change its angle in tilting axis direction.

2



Keep this position for half a second, the current angle will be locked manually.

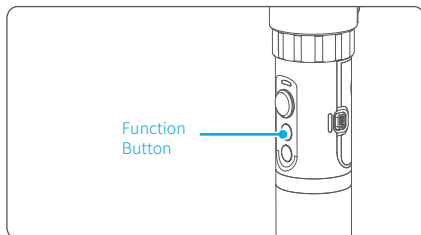
Autorotation Mode

With camera, delay photography function can be used to achieve mobile delay photography.

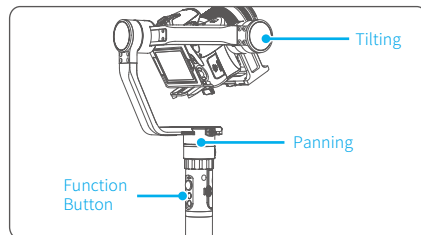
1. The speed setting is made by Feiyu ON App.

| a2000 Rotate Speed | | | | | | | | | | | | |
|--------------------|-------------------|-------------------|-------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|-------------------------|----------------|----------------|
| 12 seconds / turn | 18 seconds / turn | 24 seconds / turn | 30 seconds / turn | 1 minute / turn | 2 minutes / turn | 4 minutes / turn | 8 minutes / turn | 15 minutes / turn | 30 minutes / turn | 1 hour / turn (default) | 4 hours / turn | 8 hours / turn |

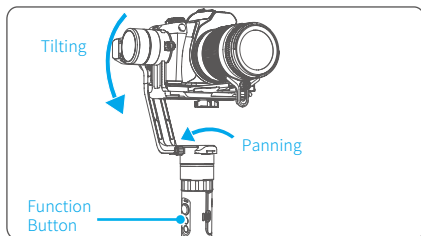
Note: both the panning and tilting directions can be rotated.



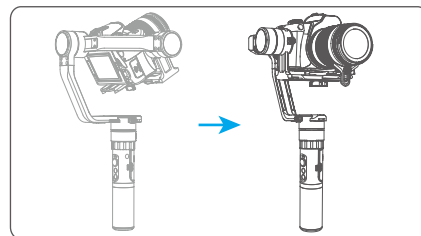
2. Four taps on function button, gimbal will enter the autorotation mode .



3. Set the gimbal start rotation position: pull the tilting axis or panning axis to the start position by hand,click the function button to record the start position.



4. Pull the gimbal (which can be rotated more than one turn) to the rotation path you want to set, and then click the function button to record the end position.



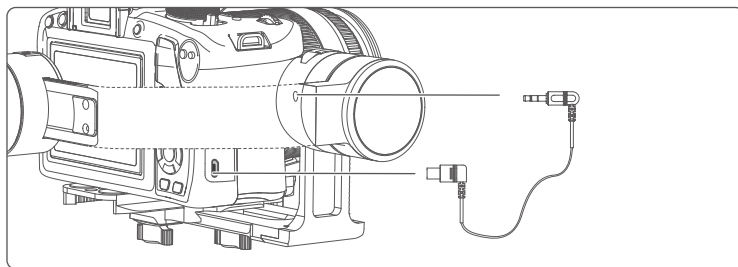
5. The gimbal will go to the start position and start the autorotation function.

Exit operations:

- 1.Click the function button to exit the autorotation mode during automatic rotation.
- 2.Two taps the trigger button to exit the autorotation mode during setting the automatic rotation.

Photograph

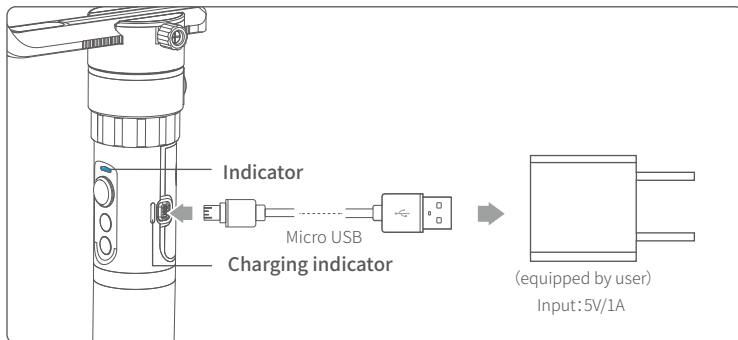
The shutter button can take pictures via the shutter release cable.



Manual photograph: click the shutter button to focus, click again within 3s to take pictures. If there is no operation within 3 seconds, the focus state is cleared.

Automatic continuous shooting: shutter button long press 3s or more, gimbal "drop" sound and enter the automatic continuous shooting mode, the default 5s shot once. One tap the shutter button to exit the automatic continuous shooting mode. (you can enter the Feiyu On App to setting the photographic interval time.)

4. Charging



Explanation of Charging Indicator Status

| LED status | Mode / status |
|---|--|
| Blue light on, red light off | Stop charging |
| Blue light and red light are flashing (If the two batteries voltage difference between the larger, the process takes a long time) | The voltage of two batteries balance adjustment |
| Blue light and red light | charging |

5. Download and Connect App

1 Download "Feiyu ON" and Install It.

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.



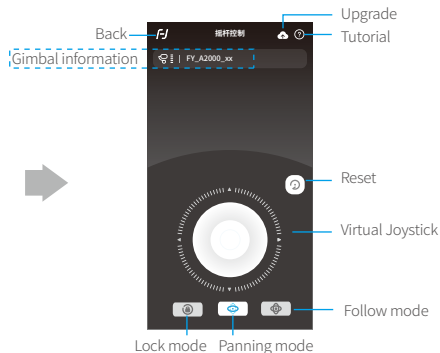
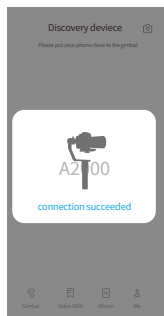
iOS Version



Android Version

2 Connecting App

Start the App on your smartphone, follow the instructions to connect the Feiyu On App with gimbal via bluetooth.



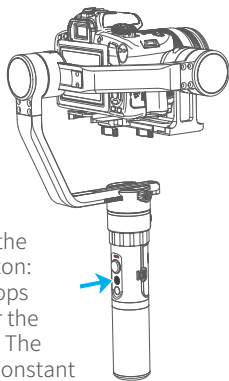
6. Gimbal Initialization

You can initialize your gimbal when:

- (1) Camera is not level
- (2) If not used for a long time
- (3) In case of extreme temperature variations

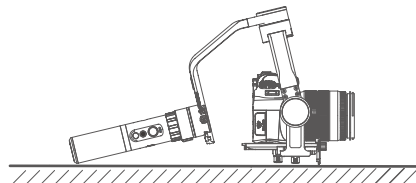
Adjusting steps:

1



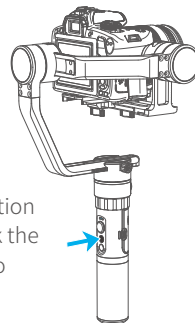
Five taps on the function button: the motor stops working after the voice "drop". The blue light is constant on.

2



Place the gimbal on a flat surface. The gimbal will automatically initialize when it detects the non movement. The blue light will flash three times and initialization ends, otherwise, the initialization fails.

3



After the initialization is successful, click the function button to wake up.

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.

7. Firmware Upgrade

Upgrade the firmware through the Feiyu ON App.

(1) Click the icon 

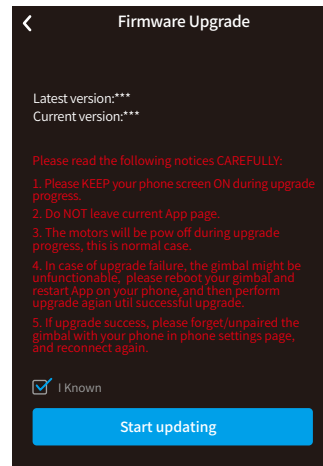
(2) Select upgrade type.

(3) Follow the prompts to upgrade the firmware.

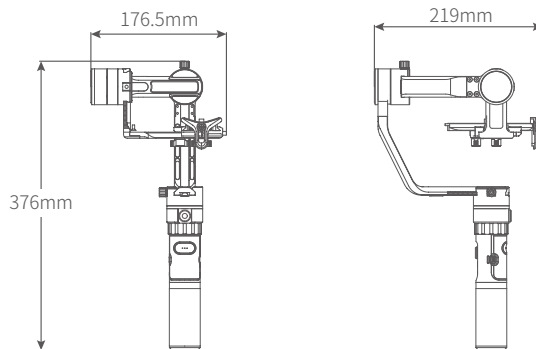
Upgrade type introductions:

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.



8. Parameters



| | |
|--------------------|--|
| Titling Angle | 360° |
| Rolling Angle | 360° |
| Panning Angle | 360° |
| Tilting Increments | 2°/s ~ 75°/s |
| Panning Increments | 3°/s ~ 150°/s |
| Life Time | 12 Hours (center of gravity balance) |
| Load weight | 250g~2500g |
| Adaption | Sony NEX-5N/NEX-7 and other N-series, SONY A7RII / ILCE-7R / ILCE-5100, Panasonic LUMIX GH4, Canon 5D Mark III (with standard lens), and other cameras with similar dimensions with weight less 2500g (the camera weight including the accessories of lens and etc.) |
| Weight | 1111.5g(not including the accessories of batteries,camera,camera lens and etc.) |

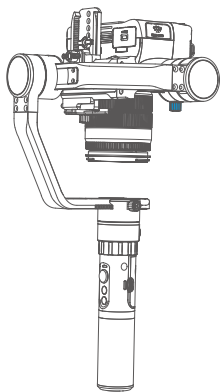
9. Balance Adjustment

STEP 1 Balance Adjustment of the Tilting Axis

Adjust the center of gravity of the camera in two steps to the axis of rotation of the tilting axis.

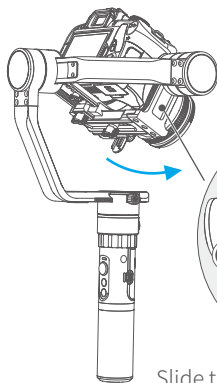
- (1) Adjust the center of gravity position of the tilting axis up and down: point the camera lens down, adjust cross arm to maintain the level, as shown in figure ①, let go and observe the state of rotation. Adjust the balance via adjust the sliding arm up and down (refer to figure ② ③).

* After adjustment, be sure to tighten the lock screw.



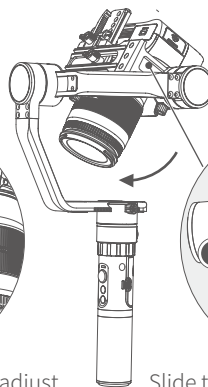
Normal vertical

①



Slide the sliding arm up to adjust

②



Slide the sliding arm down to adjust

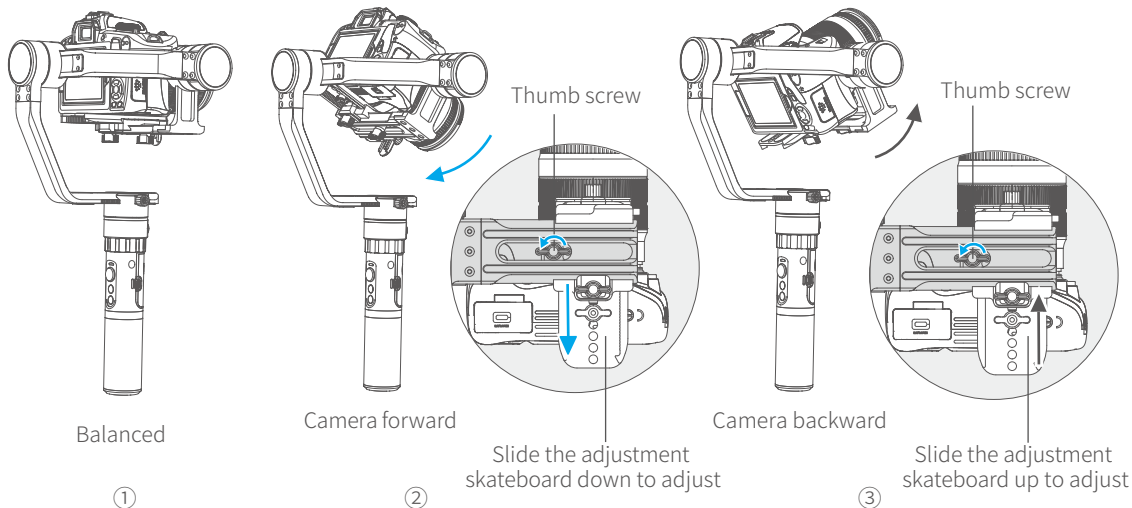
③

Camera backward

- (2) Adjust the center of gravity position of the tilting axis forward and backward: point the camera lens horizontal forward, adjust cross arm to maintain the level as shown in figure ①, let go and observe the state of rotation.

Loosen the screw on the bottom of the camera and adjust the balance by sliding the adjustment skateboard up and down at the bottom of the camera (refer to figure ② ③).

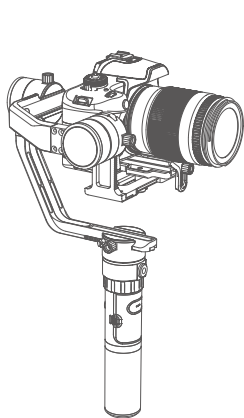
* After adjustment, be sure to tighten the lock screw.



STEP 2 Balance Adjustment of the Rolling Axis

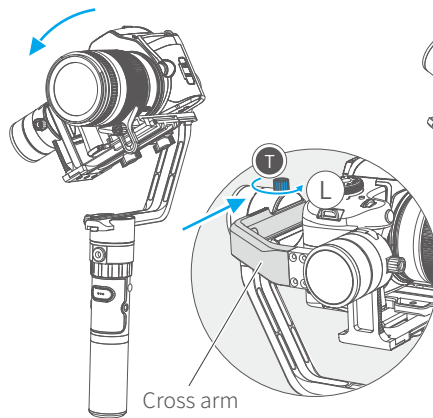
When the balance adjustment of tilting axis completed, the balance of the rolling axis can be adjusted: keep the gimbal socket connector vertical to the ground with the hand-held control handle as shown in figure ①, leave the gimbal powered off and observe the balance. Loosen the lock screw and slide the cross arm left and right to adjust the roll (refer to figure ② ③).

* After adjustment, be sure to tighten the lock screw.



Balanced

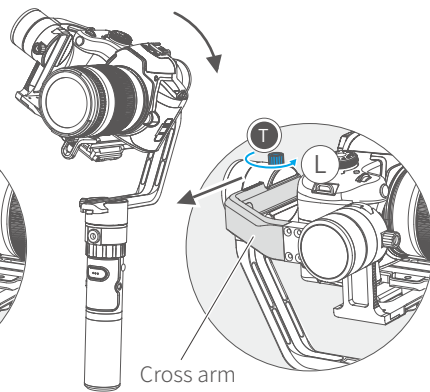
①



Cross arm

Slide the cross arm right to adjust

②



Cross arm

Slide the cross arm left to adjust

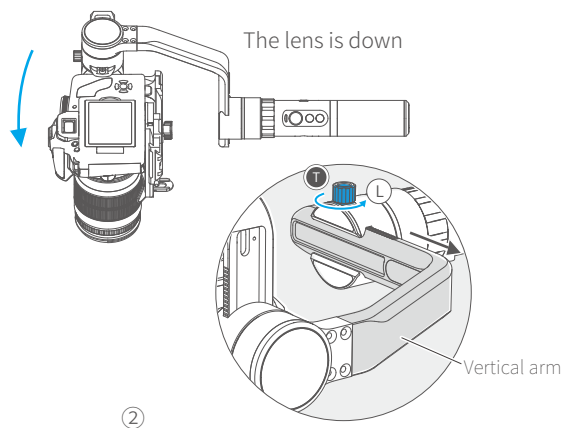
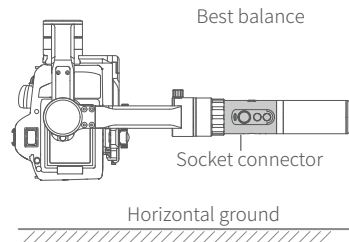
③

STEP 3 Balance Adjustment of the Panning Axis

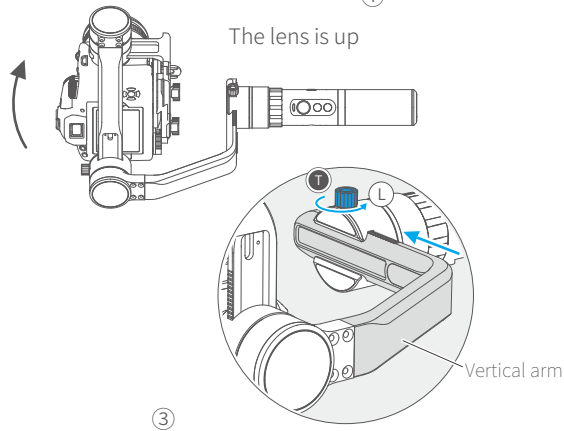
When the balance adjustment of tilting axis and rolling axis is completed, the balance of the panning axis can be adjusted. Keep the gimbal socket connector in the horizontal position, adjust hand-held panning axis as shown in figure ①, let go and observe the state of rotation.

Loosen the lock screw on the panning and slide the vertical arm forward and backward to adjust (refer to figure ② ③).

* After adjustment, be sure to tighten the lock screw.



Slide the vertical arm backward to adjust



Slide the vertical arm forward to adjust

DISCLAIMER

Any use for illegal purposes prohibited. Users are responsible for 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.

Updating and changes of product firmware and program me 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.

Attention

- Please correctly assemble the gimbal in accordance with the diagram.
- Please install the camera before turning on the gimbal.
- When the gimbal is not in use or placed on the table, please ensure it is powered off.
- Remove the battery when not in use for a long time.

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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

