



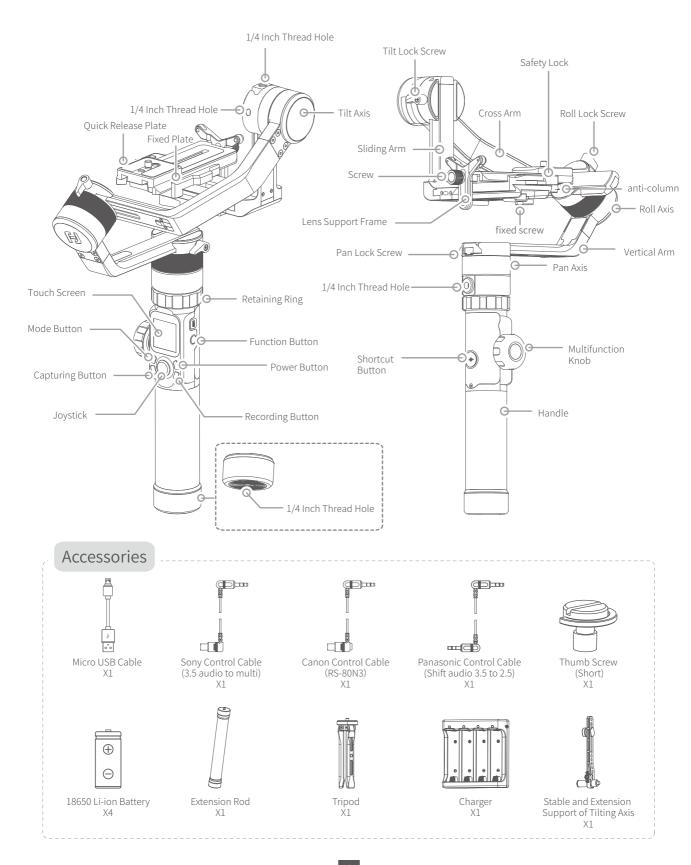
3-Axis Stabilized Handheld Gimbal for Camera

— Instructions —

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1. Product Overview



2.Installation

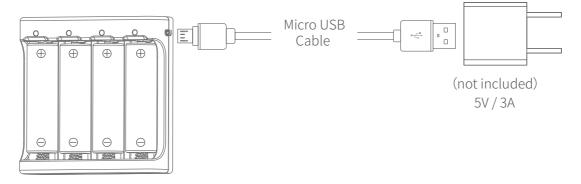
TIPS

- (1) Please mount the camera 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 batteries.

2.1 Battery Charging

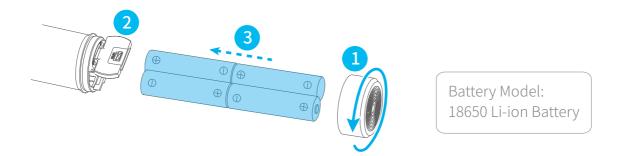
Please fully charge the batteries before powering on the gimbal for the first time.

Charge the batteries with the charger.



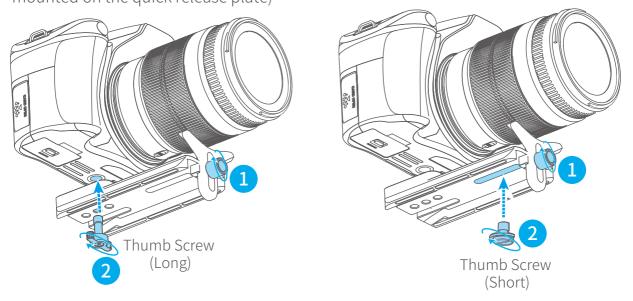
2.2 Battery Installation

Remove the tail cap, open the batteries compartment, and install the batteries correctly.

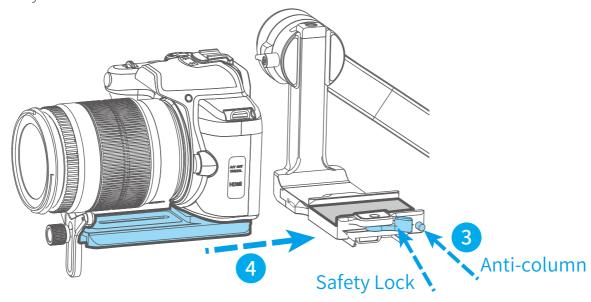


2.3 Camera Installation

- 1. Lock the lens support frame with the screw to the quick release plate;
- 2. Use the thumb screw to lock the camera from the bottom slot of the quick release plate, and slightly adjust the lens support frame after locking the camera; (Select the long/short thumb screw according to the position of the camera to be mounted on the quick release plate)



- 3. Press and hold the anti-column;
- 4. Place the quick release plate on the fixed plate, loosen the anti-column and tighten the safety lock.

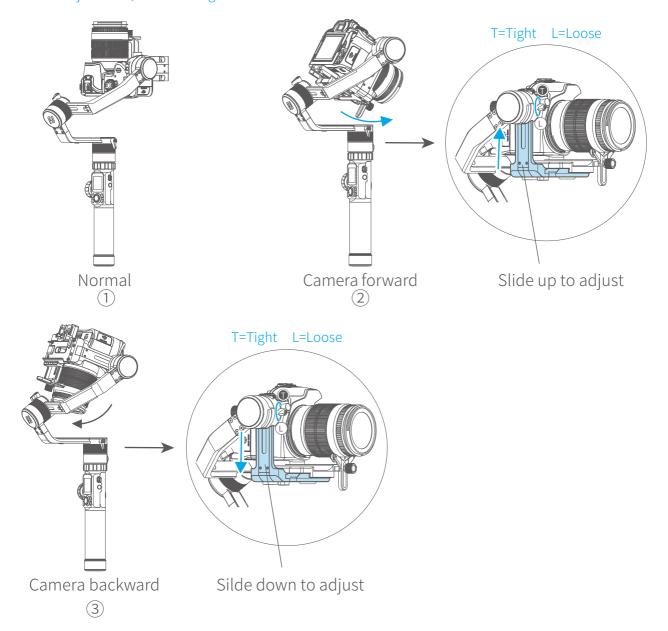


3. Gimbal Balancing

3.1 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.

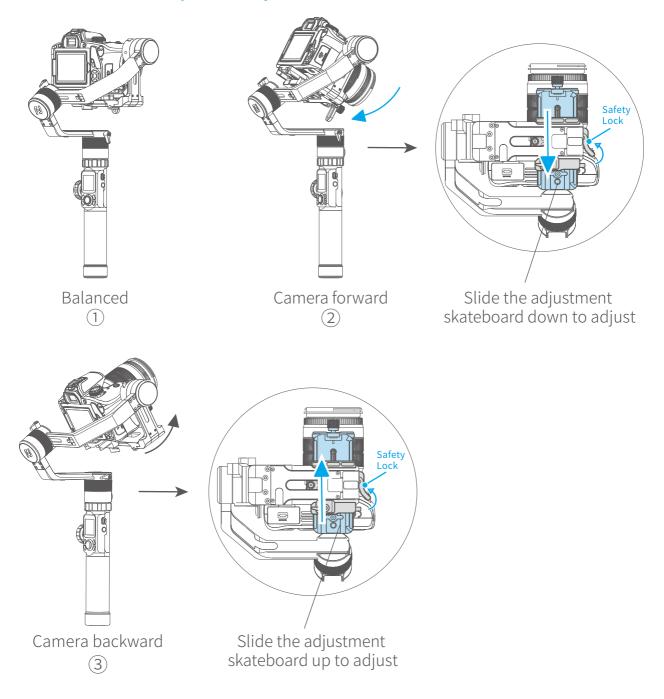
- (1) Adjust the center of gravity position of the tilting axis up and down: point the camera lens up, adjust cross arm to maintain the level, as shown in figure ①, let go and observe the state of rotation. Adjust the balance via adjust the sliding arm up and down (refer to figure ② ③).
- * After adjustment,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



(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 safety lock on the right side of the camera, and adjust the balance by sliding up and down the quick release plate on the bottom of the camera (refer to Figure ② ③).

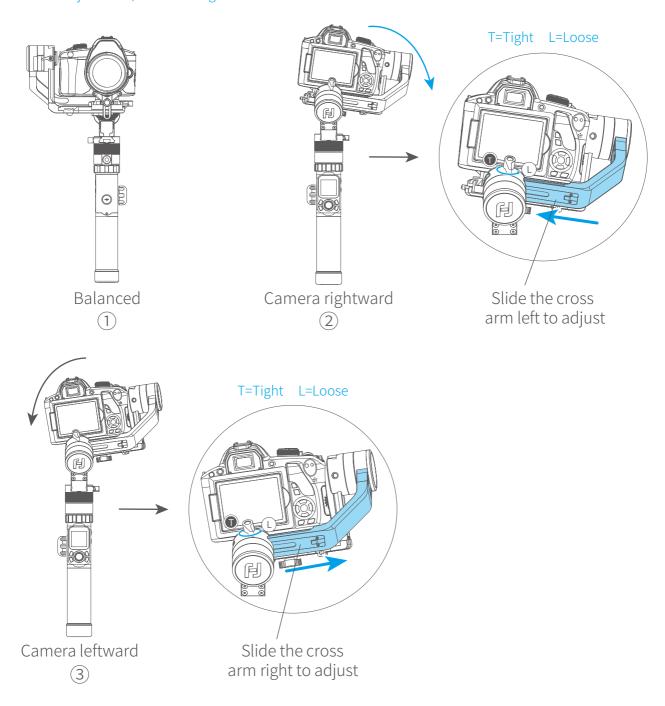
*Be sure to fasten the safety lock after adjustment.



3.2 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.

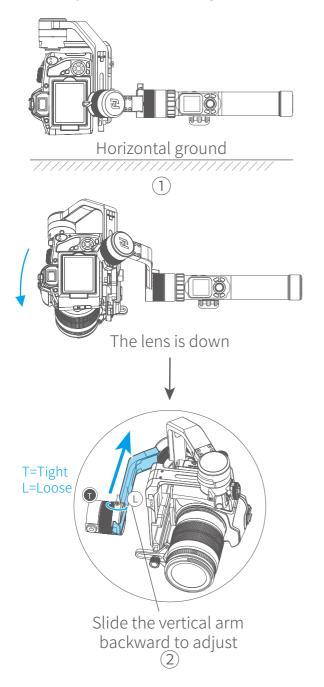


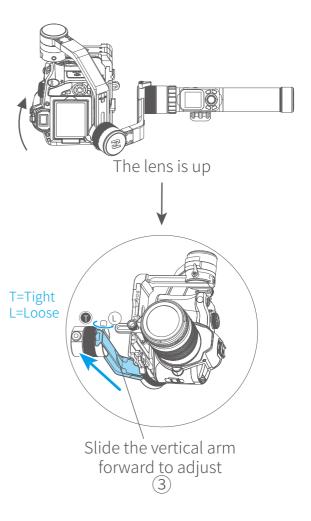
3.3 Balance Adjustment of the Panning Axis

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.





4.AK4000 Function / Operation

4.1 Handle - Function / Operation

1.Touch Screen

- * Click the option to switch or select the function mode, and slide the screen to the left or right to switch the page.
- Single tap the power button in the panning follow mode to enter the panning follow mode and rolling follow (rolling follow angle ≤ 60°).
- Single tap the power button in the follow mode to enter the follow mode and rolling follow (rolling follow angle ≤ 60°).
- Single tap the power button in the lock mode to enter the lock mode and rolling follow (rolling follow angle ≤ 60°).
- Long press or lock functions of multifunction knob, single press the multifunction knob / or to restore the functions

Screen interface









Display icon	Mode / Status
হ	WiFi is connected
<u></u>	WiFi is not connect
*	Bluetooth is connected
*	Bluetooth is not connect
Ē	Battery Level
	Camera mode
	Camera is not connect
	Zoom status
	Follow focus status

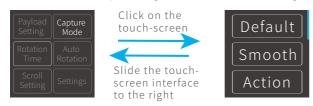
Display icon	Mode / Status	
HF	Panning Mode	
TF	Follow Mode	
AF	All follow mode	
LK	Lock Mode	
HF-R	Panning Mode + Rolling follow	
TF-R	Follow Mode + Rolling follow	
LK-R	LK-R Lock Mode + Rolling follow	
C	Tilt Axis	
<u>^</u>	Roll Axis	
Ç	Pan Axis	

Screen interface

The load setting is performed according to the camera.



Select the corresponding scene mode according to the shooting scene.



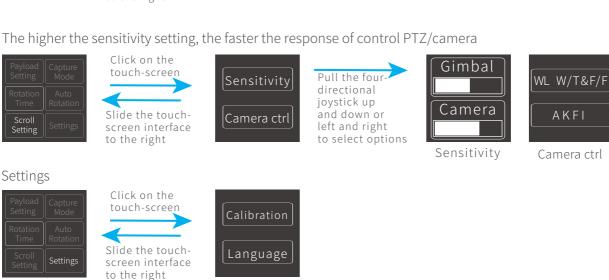
The maximum time setting of PAN and TILT is less than 8 hours, and the maximum time setting of INVL and DWELL is 59 seconds.* PAN/TILT>INVL>DWELL

Please refer to the chapter "Auto-rotation Mode" in page 14



Enter auto-rotation mode





2. Mode Button

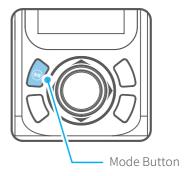
Note: The firmware upgrade may occur manual operation function and the actual product features do not match. Please find the latest manual on the official website.

Panning Mode /

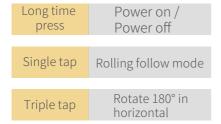
Single tap to switch between panning mode and lock mode

Under follow mode, single tap to switch to panning mode

Triple click All follow mode Enter all follow mode



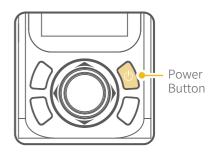
3. Power Button



Long time press the power button, and release it when the display show

Angle limit 60°

The roll and tilt direction are fixed, the pan direction rotate 180 °



4. Capturing Button

Manual capturing

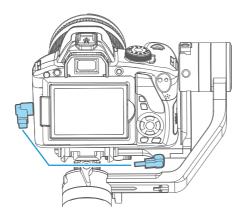
Single click the camera button to focus and single tap again within 3 seconds to take photos. When there is no operation within 3 seconds after clicking for focus, the focus state shall be cleared.

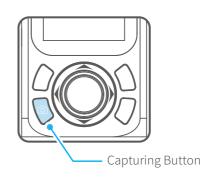
* Need to connect to the camera shutter cable or connect to the camera WiFi.

Self-timer

Press and hold the camera button, the gimbal will make a "beep" sound and enter the automatic continuous shooting mode; it shoots once for every 5 seconds by default. Single tap the camera button to exit the automatic continuous shooting mode (you can enter the Feiyu On App to set the continuous shooting interval).

* Need to connect to the camera shutter cable.



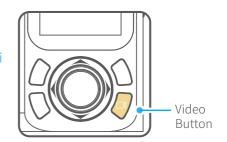


5.Recording Button

* Need to connect to the shutter release cable or the camera WiFi (for Camera with WiFi function).

Single tap

Start shooting / Stop shooting



6.Shortcut button

Long time press

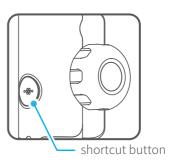
Fast follow mode

Double tap

Reset

Long time press the shortcut button, enter the fast follow mode.

Double tap the shortcut button, return to panning mode, tilt,roll and pan axis return to initial level.



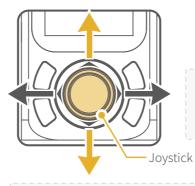
7. Joystick

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



Move to right

- (1) Camera lens move to right
- (2) Select the option on the right

Downward

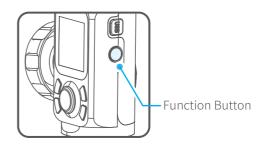
- (1) Camera lens downward
- (2) Select the option below

8. Function Button

Single tap Return / Lock / Unlock

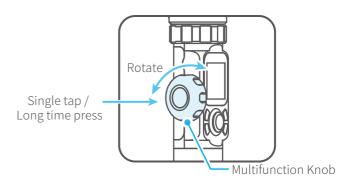
On other interfaces, single tap the function button to return to the main interface.

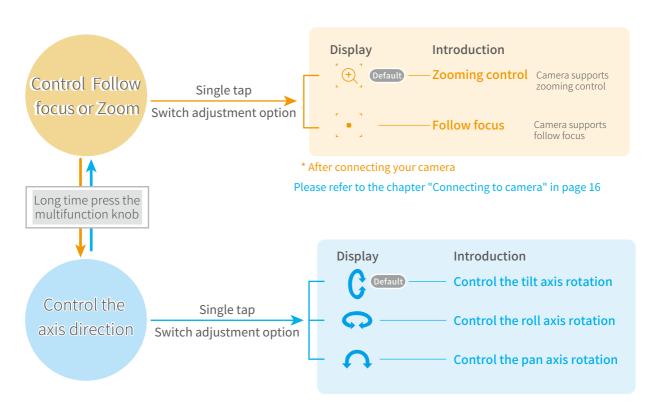
Single tap the function key on the main interface to enter the locked/unlocked state.



9. Multifunction Knob

Rotate	Control the current axial rotation / follow focus and zoom
Long time press	Switch between the follow focus & zoom options and the axial options
Single tap	Switch adjustment option





4.2 Function

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, updown movements of the user's hand.

Rolling Follow Mode

The pan and tilt direction are fixed, and the camera moves according to the left-right movements of the user's hand.

All Follow Mode

The camera moves according to the user's hand.

Lock Mode

The orientation of the camera is fixed.

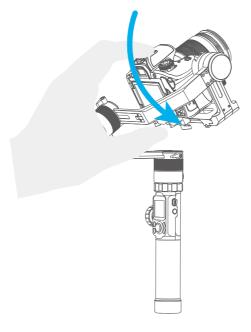
Reset

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

Manual Lock

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

(Camera can be manually positioned while in panning mode ,follow mode or lock mode.) Take the tilt axis setting for example:



Auto-rotation Mode

Auto-rotation Mode Parameter Setting

Method 1. Enter the Feiyu ON App to set the auto-rotation mode parameters.

Enter the parameter setting interface to select the auto-rotation mode for setting. The maximum time setting for panning and tilting rotation time is less than 8 hours, and the maximum setting time for photographing stop time and photographing interval is 59 seconds.

(Note: The photographing interval setting must be greater than the photographing stop time and less than the panning rotation time or the tilting rotation time.)







Method 2. Set the auto-rotation mode parameters by entering the rotation time interface through the display screen.

Adjust and control the options via the touch screen or by pulling the four-directional joystick up and down or left and right



Display icon	Mode / Status	Minimum time setting	Maximum time setting
PAN(T1)	Panning axis rotation time period	00:00:00	07:59:59
TILT (T2)	Tilting axis rotation time period	00:00:00	07:59:59
INVL(t)	Photographing interval	00:00:00	00:00:59
DWELL(P)	Photographing waiting time	00:00:00	00:00:58

* T1/T2>t>P

PAN: Time required for the panning axis to rotate from the start point to the end point.

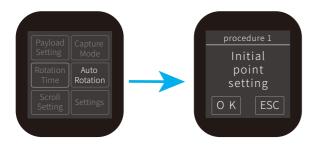
TILT: Time required for the tilting axis to rotate from the start point to the end point.

INVL: The time between the end of the previous shooting and the end of the next shooting.

DWELL: Gimbal stop time after issuing a photographing command.

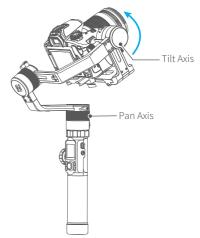
Auto-rotation mode setting

(1) Select auto-rotation to enter the auto-rotation mode on the display interface.



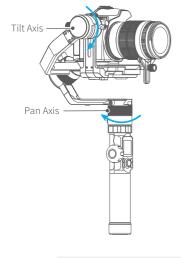
(2) Set rotation start position

Rotate the panning axis or tilting axis to the start position and stay for half a second, and click OK option on the screen to record the start position.



(3) Set rotation end position

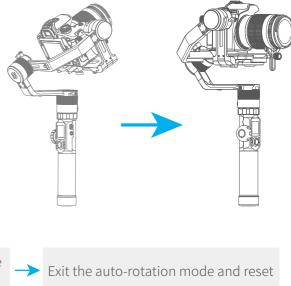
Rotate the panning axis or tilting axis to the end position and stay for half a second, and click OK option on the screen again to record the end position.





(4) Start auto rotation movements

The gimbal automatically returns to the start position, the tilting axis and panning axis start to rotate to the end position according to the set parameters, and the gimbal automatically resets after completion.



5.App - Download and Connecting

5.1 Download and Install Feiyu ON App

* Requires iOS 9.0 or later, Android 5.0 or later



iOS Version



Android Version

5.2 Connecting App

- 1. Turn on the mobile phone Bluetooth and start the gimbal;
- 2. Open the App, and connect to AK4000 according to the App prompts. After the connection is successful, you can control AK4000 on the App.





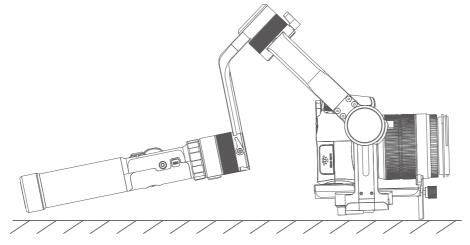


6.Advanced Operation

6.1 Gimbal Initialization

You can initialize your gimbal when:

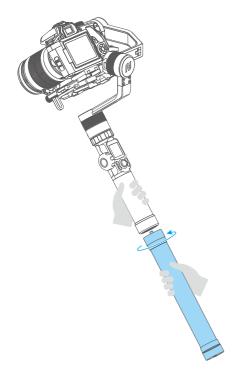
- (1) When camera is not balance.
- (2) If not use for a long period of time.
- (3) In case of extreme temperature variations.
- (1) Select system settings on the display screen to enter the gimbal calibration.
- (2) Place the gimbal on the table, and the gimbal automatically initializes. If the display screen prompts that the calibration is successful, the initialization ends, otherwise the initialization fails.



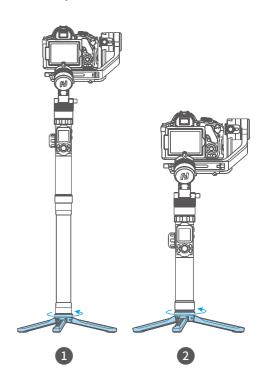
(3) After the initialization is successful, slide the display screen interface to the left/right or click the "ESC" key on the screen to wake up.

6.2 Accessories expansion

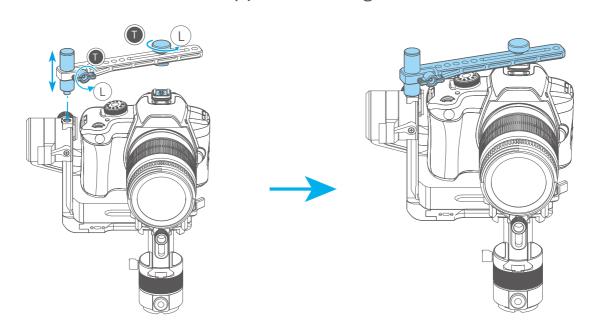
1. Extension Rod



2. Tripod

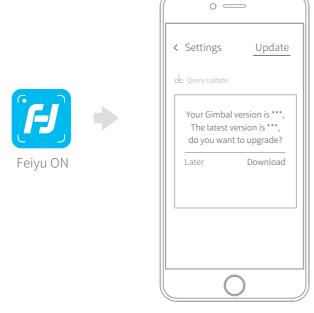


3. Stable and Extension Support of Tilting Axis

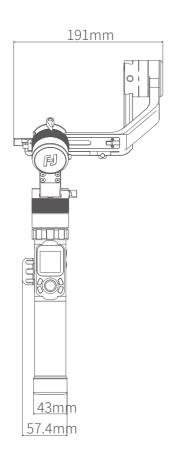


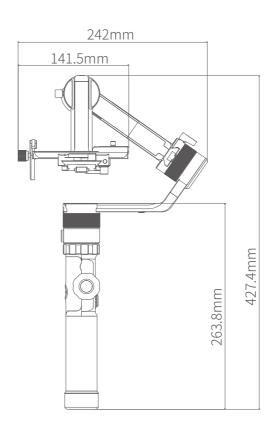
6.3 Firmware Upgrade

Connect the gimbal to the Feiyu ON App, to upgrade the firmware through the App.



7. Specifications





Max. Tilting Range 230°

Max. Rolling Range 360°

Max. Panning Range 360°

Tilting Speed $2^{\circ}/s \sim 75^{\circ}/s$

Panning Speed 3°/s ~ 150°/s

Operation Time 12Hours

Weight About 1436g (not including the batteries)

Payload 4000g (In center of gravity balanced state)

8. Compatible Cameras for Reference

Brand	Model	Can be equipped with a lens
	Canon 5DMarkIV	Canon EF 100mm f/2.8L IS USM+Camera hood
		Canon EF 135mm f/2L USM+Camera hood
		Canon EF 85mm f/1.2 L II USM+Camera hood
		Canon EF 50mm f/1.2L USM+Camera hood
		Canon EF 35mm f/2 IS USM+Camera hood
		Canon EF 35mm f/2 IS USM+Camera hood
		Canon EF 50mm f/1.2L USM+Camera hood*
	Canon 1D X Mark II	Canon EF 85mm f/1.2 L II USM+Camera hood*
Canon		Canon EF 135mm f/2L USM+Camera hood*
		Canon EF 100mm f/2.8L IS USM+Camera hood*
	Canon5DMarkIII	Canon EF 85mm f/1.2 L II USM+Camera hood
		Canon EF 24-105mm f/4L IS USM
	Canon6DMarkII	Canon EF 85mm f/1.2 L II USM+Camera hood
		Canon EF 16-35mm f/2.8L II USM
		Canon EF 24-105mm f/4L IS USM
		Canon EF 50mm f/1.2L USM+Camera hood
,		
Nikon	Nikon D500	NikonAF-S 105mm f/2.8G IF-ED VR
		NikonNikkor 18-140mm f/3.5-5.6G ED VR
Nikon		
Nikon	NikonD7500	NikonNikkor 18-140mm f/3.5-5.6G ED VR

^{*} Tips: The camera needs to be close to the tilting motor.

Brand	Model	Can be equipped with a lens
		Sony E 50mm F1.8
	Sony α9	Sony E PZ 18-105mm F4 OSS
		Sony FE 85mm F1.8
		Sony FE 35mm F1.4
		sony FE 24-240mm F3.5-6.3
	Sony α7R2	SonyVario-Sonnar T* 24-70mm f/2.8 ZA SSM
Sony	Sony α6500	SonyFE 28-70mm f/3.5-5.6 OSS
		Sony E 50mm F1.8
		Sony E PZ 18-105mm F4 OSS
		Sony FE 85mm F1.8
	Sony α7R3	Sony FE 35mm F1.4
		sony FE 24-240mm F3.5-6.3
		Sony FE 24-105mm f/4 G OSS
		Sony FE 12-24mm f/4.0 G

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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.