

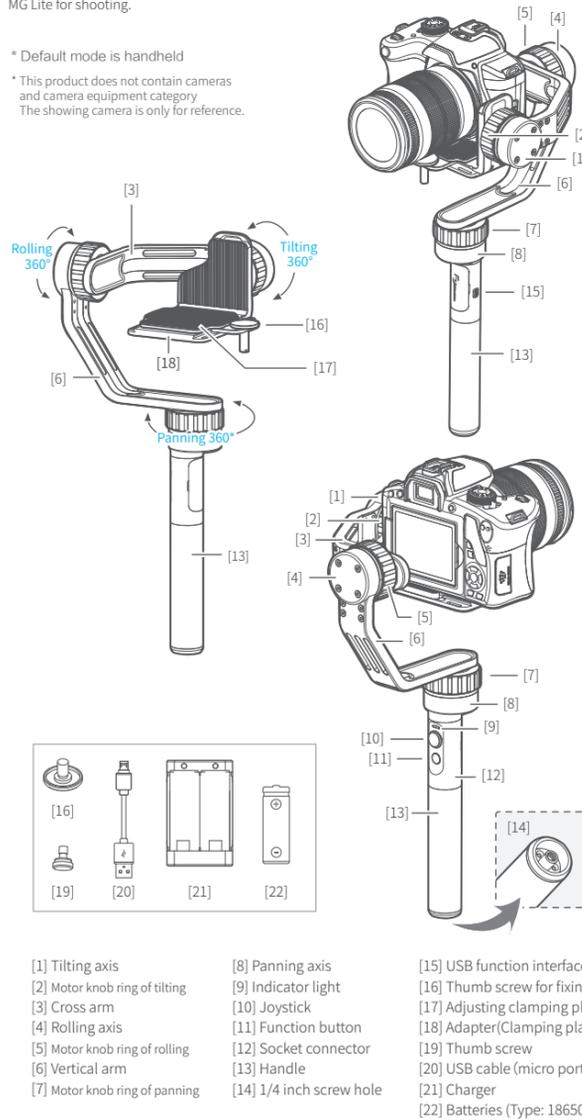
MG Lite

3-Axis Gimbal for Mirrorless Camera

1. Product Overview

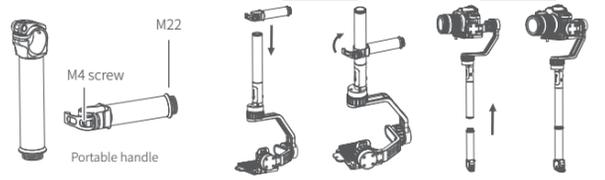
MG Lite is one kind of 3-axis handheld gimbal especially for mirrorless cameras. Simple and clean design integrated strong operation function, easy to switch among more using ways. Panning / Tilting / Rolling 3-axis 360 degrees coverage, giving you ultimate experience while using the MG Lite for shooting.

- * Default mode is handheld
- * This product does not contain cameras and camera equipment category. The showing camera is only for reference.



- [1] Tilting axis
- [2] Motor knob ring of tilting
- [3] Cross arm
- [4] Rolling axis
- [5] Motor knob ring of rolling
- [6] Vertical arm
- [7] Motor knob ring of panning
- [8] Panning axis
- [9] Indicator light
- [10] Joystick
- [11] Function button
- [12] Socket connector
- [13] Handle
- [14] 1/4 inch screw hole
- [15] USB function interface
- [16] Thumb screw for fixing lens
- [17] Adjusting clamping plate
- [18] Adapter (Clamping plate)
- [19] Thumb screw
- [20] USB cable (micro port)
- [21] Charger
- [22] Batteries (Type: 18650)

Optional Accessories



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2. Installation

Attention: Please complete the following instructions before power on the gimbal

1 Insert the batteries

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

2 Installation of adjusting clamping plate

Adjusting clamping plate light slip along the slideway to the suitable position. If use a long lens, please install the thumb screw for fixing lens [16] after installing the adjusting clamping plate.

Attention

As the stabilizer comes with boot self-test function, such as the balance adjustment is less than ideal, or due to the intensity adjustment does not fit and other reasons cause the stabilizer vibration is too large, the gimbal will automatically enter the Standby mode.

3 Installation of the camera

Correctly place the camera to the adjusting clamping plate, fixing it by the thumb screw [19] through the screw holes on the bottom of the adjusting clamping plate. Adjust the adjusting clamping plate to make the camera close to the tilting motor, fixing the adjusting clamping plate by the thumb screw [19]. If a long lens, the long lens close to the thumb screw for fixing lens [16].

Warm tip: If the first time to use or replace the camera / lens, or change the camera position, weight, size, appearance, it is only fixed, without tightening the middle screw too tight, in order to facilitate the balance after adjustment.

4 Camera balance adjustment

In order to achieve the desired effect of the gimbal, the first time to use or replace the camera / lens, or change the camera position, weight, size, appearance, please adjust the balance.

Please refer to the "Balance Adjustment" section.

5 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 green light changes from quick flashing to constant.

Warm tip: 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. Balance Adjustment

- Please mount the adjusting clamping plate, camera lens, memory card, etc. and then remove the lens cover before the balance adjustment.
- Simply loosen the Motor knob ring, the adapter or cross arm or vertical arm to move without all wring out.

STEP 1 Balance adjustment of the tilting axis

(1) Adjust the center of gravity of the camera's vertical position in tilting axis

- Mount the camera on the adjusting clamping plate, fix the tilting, rolling position, and keep it at the horizon level, and turn the lens down. Observe the camera status.
- If the camera leans to front or back, then loosen the motor knob ring (shown at right), and adjust the camera to the opposite position, until the camera can mount properly.

As shown, if the camera is tilted toward A1, the fixed plate live A2 direction, if tilted toward B1, the adapter should be live B2 direction.

c. Be sure to tighten the Motor knob ring after the adjustment (shown at right).

(2) Adjust the center of gravity of the camera's horizon position in tilting axis, after the adjustment of the center of gravity in vertical position.

- The screws on the bottom of the adapter in a relaxed state. Fix the tilting, rolling position, and keep it at the horizon level. Make the camera lens forward. And observe the camera status.
- If the camera leans to front or back, then move the camera to the opposite position, until the camera can mount properly.

As shown, if the camera is tilted toward A1, the camera live A2 direction, if tilted toward B1, the camera should be live B2 direction.

c. After the adjustment tighten the screws on the adapter and the lens retaining ring.

STEP 2 Balance adjustment of the rolling axis

Adjust the center of gravity of the camera's horizon position in rolling axis, after the adjustment of the center of gravity in tilting axis.

- Fix rolling position manually and keep the camera at the horizon level, leave hold of it and observe the camera status.
- If the camera leans to left or right, then loosen the motor knob ring (shown at below), and adjust the cross arm to the opposite position of the cross arm, until the camera keep the current position after adjustment.

As shown, if the camera is tilted toward A1, move the cross arm to A2 direction, if tilted toward B1, move the cross arm to B2 direction.

c. Be sure to tighten the motor knob ring after the adjustment (shown at below).

Explanation of joystick control

Joystick	Camera lens
Up	Up
Down	Down
Left	Left
Right	Right

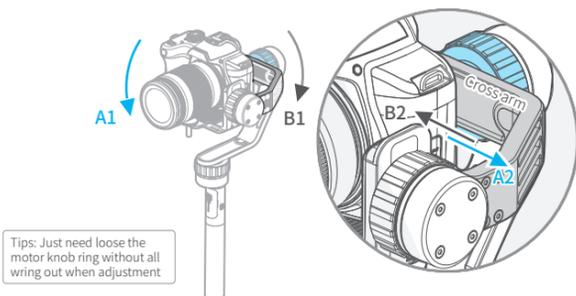
STEP 2 Balance adjustment of the rolling axis

Adjust the center of gravity of the camera's horizon position in rolling axis, after the adjustment of the center of gravity in tilting axis.

- Fix rolling position manually and keep the camera at the horizon level, leave hold of it and observe the camera status.
- If the camera leans to left or right, then loosen the motor knob ring (shown at below), and adjust the cross arm to the opposite position of the cross arm, until the camera keep the current position after adjustment.

As shown, if the camera is tilted toward A1, move the cross arm to A2 direction, if tilted toward B1, move the cross arm to B2 direction.

c. Be sure to tighten the motor knob ring after the adjustment (shown at below).

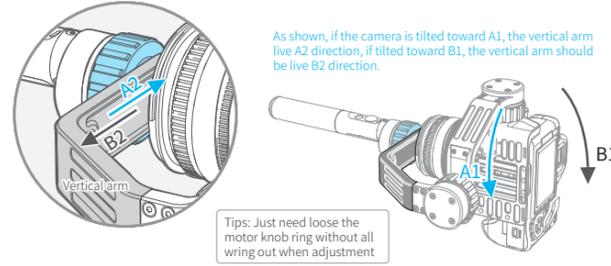


Tips: Just need loose the motor knob ring without all wring out when adjustment

STEP 3 Balance adjustment of the panning axis

Adjust balance of the panning after the balance adjustment of the tilting and rolling.

- Keep the socket connector of the gimbal parallel to the ground, refer the right picture: leave hold of it and observe the camera status.
 - If the camera leaning left or right, loosen the Motor knob ring (shown at below), adjust the vertical arm to leaning opposite direction, until the camera keep the current position after adjustment.
- c. Be sure to tighten the Motor knob ring after the adjustment (shown at below).



As shown, if the camera is tilted toward A1, the vertical arm live A2 direction, if tilted toward B1, the vertical arm should be live B2 direction.

Tips: Just need loose the motor knob ring without all wring out when adjustment

STEP 4 Camera adaptation parameter adjustment

After finishing the stabilizer balance adjustment, turn on the gimbal for a testing, please refer to point 5 in "Installation" chapter.

If there is a slight vibration happen on the panning / rolling / tilting axis after power on the gimbal, it means the adaptation parameters needs to be adjusted.

Tips:

- After power on, You can adjust the adaptation parameter of the corresponding axis while operation the function corresponding keys (as shown below). the led will keep flashing in the adjust mode.
- If the panning axis / rolling roll / tilting axis from side to side, then move up the joystick to increase the adaptation parameter.
- If the motor has felt the feeling of holding the handle, then move down the joystick to decrease the adaptation parameter.
- After the shock rocker disappeared please release button and click Save function parameters.



Function Button	Adjusted Axis
Tap button for five times	adjust for panning axis
Tap button for six times	adjust for rolling axis
Tap button for seven times	adjust for tilting axis

4. Operation

Function Button Indicator light

- Power on / off
- Switch the working mode
- Realize other functions

Identify the current mode of the gimbal by the indicator lights

Explanation of LED indicator status

LED 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 / Initialize the gimbal
Blue light keeps flashing	Initialization failure / Malfunction
Red light flashes three times	Low battery (please charge or change the batteries)
Red light keeps flashing	Entering standby / Entering power off

Operating Instructions of Function Button

Operation	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 camera lens rotate 180°
Quadruple tap	Reset	Reset the tilting axis of the gimbal to initial orientation and initial mode
Long press for 1 second	Standby	Single tap again to awake the gimbal, or triple tap to initialize the gimbal
Long press for 3 seconds	Power off	

Working Modes

Panning Mode

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

Lock Mode

The camera stays in its current orientation. The panning, tilting and rolling direction are all fixed.

Other Functions

Reset

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

Standby

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

5. Gimbal Horizontal Angle Adjustment (Initialize the gimbal)

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

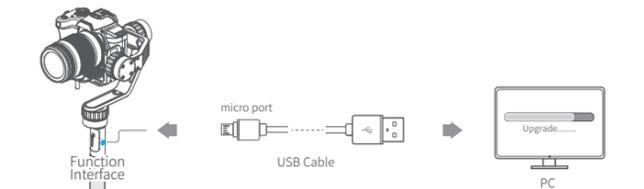
- The tilt angle is not leveled with the horizontal surface.
- The roll angle is not parallel to the horizontal surface.
- Under lock mode, the panning angle drifts.

Adjusting steps:

- 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.
- 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. Firmware Upgrade



Upgrade steps

- 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.
- Connect the USB cable with micro port as the above picture.
- Please upgrade the relevant firmware according to the operation instructions of firmware upgrade software.

7. Parameters

Tilting / Rolling / Panning	360°
Tilting Increments	2°/s ~ 75°/s
Panning Increments	3°/s ~ 150°/s
Usage Time	6 Hours
Adaption	Sony NEX-5N/NEX-7 and other N-series, SONY ATR1 / ILCE-TR / ILCE-5100, Panasonic LUMIX GH4, Canon 5D Mark III (with standard lens), and other cameras with similar dimensions with weight less 1630g (The camera weight including the accessories of lens and ect.)
Weight	887g (Not including the accessories of batteries, camera, camera lens and ect.)

How to Charge

Connect the Micro-USB port of the USB cable with the charger, and the USB port with 5V USB power adapter.

Package List

Product model	Quantity	Product model	Quantity
MG Lite gimbal	1	USB cable (micro port)	1
Handle	1	Charger	1
Adjusting clamping plate	1	Batteries (type:18650)	4
Thumb screw for fixing lens	1	User manual	1
Thumb screw	3	Warranty card	1

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.

You can get the latest user manual from the official website: www.feiyu-tech.com

Feiyu Tech 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.
- Users will be responsible for all behaviors of purchase and use products.
- Please install the camera, complete the installation and balance adjustment before power on the gimbal.
- Please charge the battery with the standard charger.
- When the gimbal is not in use or placed on the table, please ensure it is powered off.



Please visit the official website of Feiyu Tech to get related information: www.feiyu-tech.com
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