

JOBY®

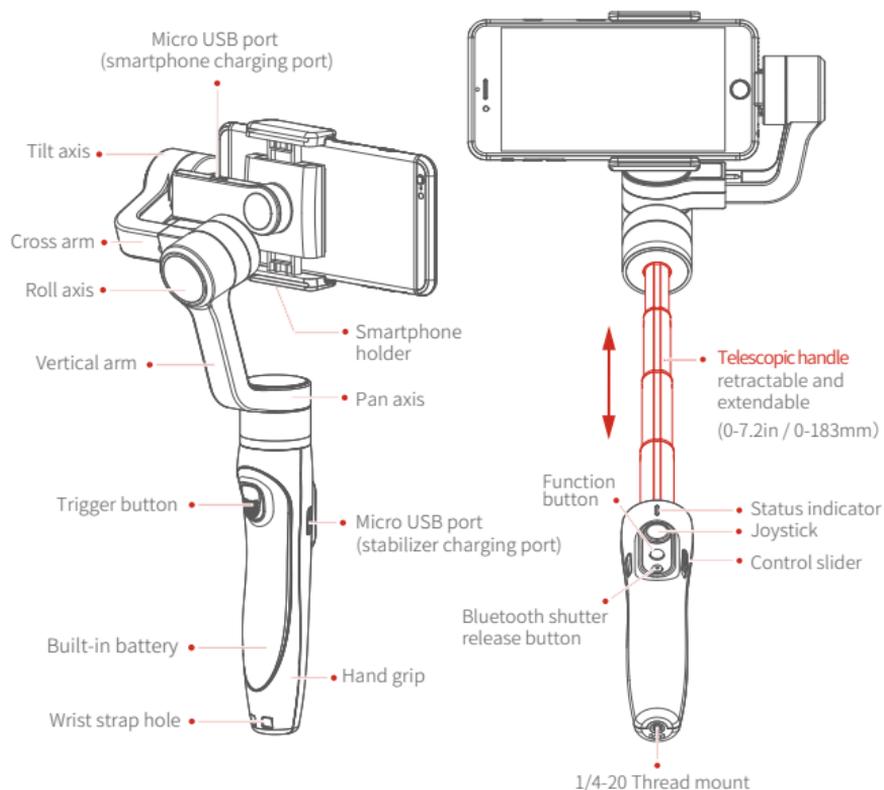
smartstabilizer

3-Axis Handheld Stabilizer for Smartphone

Product overview

1. Structure

■ Smartphone shown in illustrations is for reference only



2. Included items



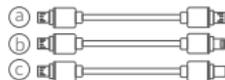
Micro USB cable



Wrist strap



Tripod



- Micro to Micro cable
- Micro to Lightning cable
- Micro to Type C cable

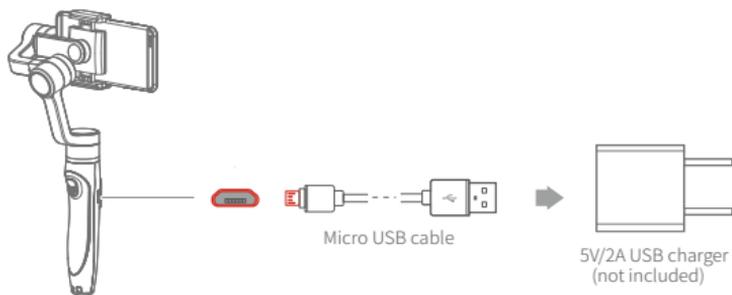
Product setup

1. Stabilizer charging

- Fully charge the battery before powering on the stabilizer for the first time.

Charge the stabilizer with the Micro USB cable.

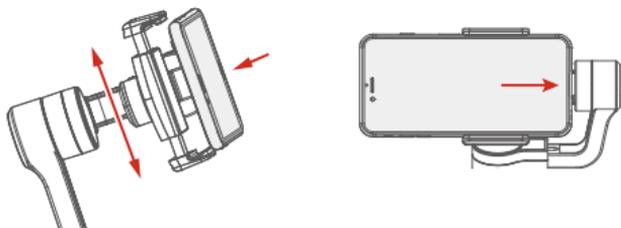
The indicator is red in charging status. It will turn green when the battery is fully charged.



- ⚠ (1) Install the smartphone before powering on the stabilizer.
- (2) When not in use, turn off the stabilizer and then remove the smartphone.

2. Insert smartphone

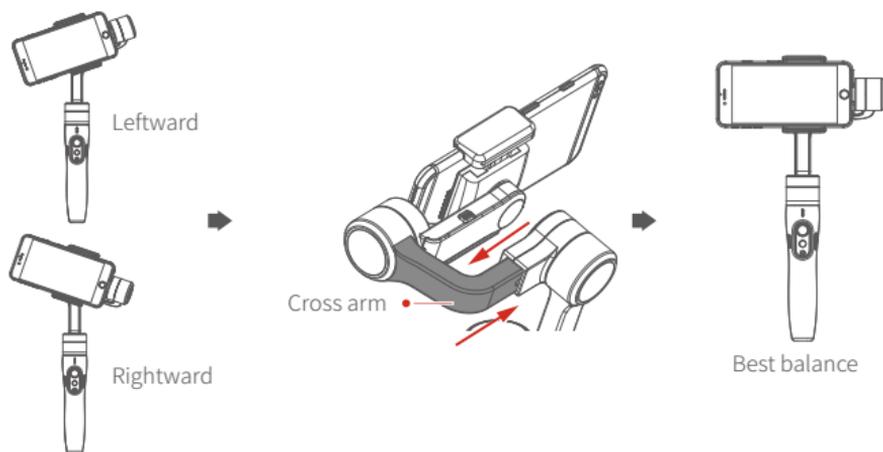
- Stabilizer must be powered off when mounting the phone.
- Smartphone holder width range : 2.2-3.3in / 57-84mm
- It's recommended to remove your smartphone protective case.



Place smartphone in the holder, push it against the back of the holder and slide it towards the side of the stabilizer.

3. Balancing smartphone

- When the stabilizer is off, if the smartphone is unbalanced after being mounted, adjust the cross arm until the phone stays horizontal.

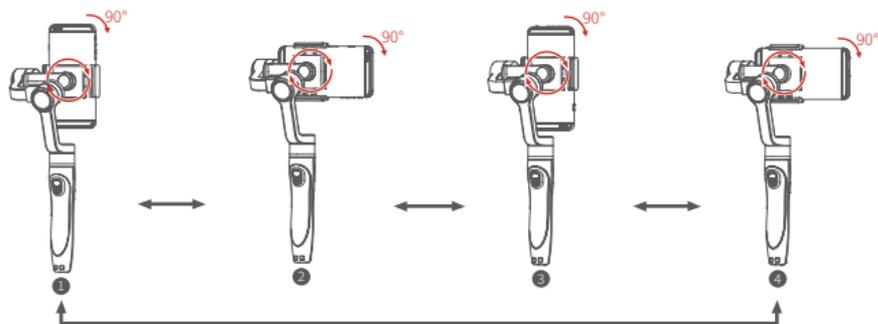


- (1) If smartphone tilts to the left, pull cross arm out to the right until phone is horizontal.
- (2) If smartphone tilts to the right, push cross arm in to the left until phone is horizontal.

Note: The smartphone must be balanced as explained above to guarantee correct stabilizer functioning.

4. Smartphone orientation

Simply rotate the phone holder until you reach the orientation that you need.
If the phone obstructs the rotation, reposition the phone.



When mounting the phone vertically, consider the phone weight for positioning the holder:
Heavier phone: the holder is positioned in the middle.
Lighter phone: the holder is positioned towards the bottom.



Heavier load
weight:
130-200g
0.29-0.44 lbs



Lighter load
weight:
≤ 130g
< 0.29 lbs

5. Power on / off

- Make sure the smartphone is secure before powering on the stabilizer.
- When battery is low, the status indicator will blink red three times every 5 seconds, charge the stabilizer.

Power on: press and hold the function button until the status indicator turns green and the stabilizer beeps.

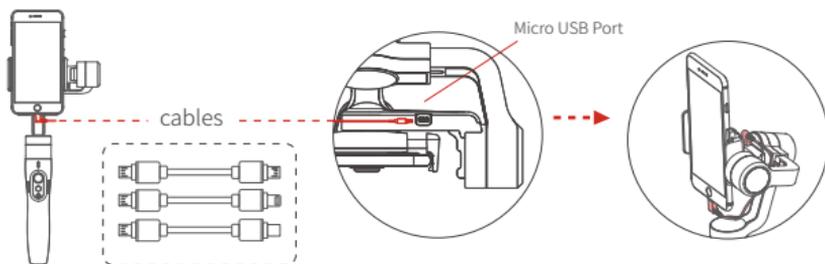
Power off: press and hold the function button until the status indicator changes from a flashing red to a solid red light and stabilizer beeps.

Note: Turn on the stabilizer only when the phone is mounted, otherwise motors might be damaged.

Vibrating is normal for the first few seconds after turning on the stabilizer. It will disappear when the motor's auto-adjustment is done.

6. Smartphone charging

Should you need to charge your smartphone, you can opt to connect the phone to the stabilizer using the corresponding cable (included).



Controls and operations

1. Status indicator

The current mode of the stabilizer can be identified by the indicator status as follows:

Indicator status	Mode / Status
Blue light flashes once	Pan mode
Blue light flashes twice	Follow mode
Constant blue light	Lock mode / stabilizer initialization / motion control mode
Blue light keeps flashing	Initialization failure/ malfunction
Red light flashes three times	Low power
Red light keeps flashing	Stabilizer powering off



2. Bluetooth shutter release button

By connecting via Bluetooth or App you can trigger pictures and videos on your phone as follows:

Button	Actions
Single click	Take a photo
Press & Hold	Start video recording / Stop video recording



Note: Single click during video recording allows taking a picture. You can tap the Bluetooth shutter release button during a single recording session as many times as you like to take multiple stills.

Troubleshooting: if the stabilizer fails to connect to the App, power off the stabilizer. Press and hold both the Bluetooth shutter release button and the function button to reset the Bluetooth connection.

3. Joystick control

The stabilizer joystick can control pan (move the joystick right/left) and tilt (move the joystick up/down).

If the stabilizer is in follow mode, the joystick can control the roll axis angle (-30° ~ +30°) when moved right/left.



4. Other controls and functions

Function button	Function	Explanation
Single click	Pan Mode / Lock Mode	Single tap to switch between pan mode and lock mode
Double click	Follow mode	When in follow mode you can use the joystick left/right to control the roll axis angle (-30° ~ $+30^{\circ}$) or up/down to control the tilt axis angle. When in follow mode, click the function button once to return to pan mode
Triple click	Switching camera lens	It needs to be used with the App
Four clicks	Motion control mode	Both the pan and tilt directions can be rotated
Five clicks	Reset	After the reset succeeds or fails, you can click the function button to restart the stabilizer
Trigger button	Function	Explanation
Press & Hold	Temporary Lock	In the pan mode or follow mode, holding the trigger button temporarily locks pan and tilt until released
Double click	Reset to default	Centers the camera away from the user on all 3 axes (pan, tilt and roll) and switches back to the default pan mode
Control slider	Function	Explanation
Sliding up-down	Adjust parameters	Adjust phone camera parameters when using the stabilizer App

5. Automatic rotation of the smartphone

From horizontal to vertical:

- (1) Hold the stabilizer horizontally parallel to the ground.
- (2) Press and hold the trigger button and at the same time click once on the function button.

Form vertical to horizontal (reset):

- (1) Hold the stabilizer horizontally parallel to the ground.
- (2) Double click on the trigger button.

Note: The automatic rotation function works **ONLY** if the stabilizer is held horizontally parallel to the ground.



Operation modes

Pan mode (Default mode) — The roll and tilt directions are fixed, and the smartphone moves according to the hand movement direction of the user.

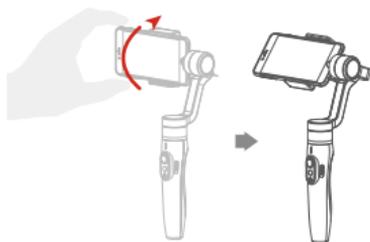
Follow mode — The roll direction is fixed, and the smartphone moves according to the hand movement direction of the user.

Lock mode — The orientation of the smartphone is fixed.

Reset — Return to pan mode (default mode).

Manual Lock

Smartphone can be manually positioned while in pan mode, follow mode and lock mode. Both the pan and tilt can be manually set.



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

Motion Control Mode

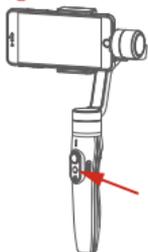
The stabilizer can easily create constant speed movement by using the motion control mode. This mode can be used for recording both regular video and timelapse photography. For best results, attach the stabilizer to the included tripod to keep it completely still.

1. Set motion speed in the App

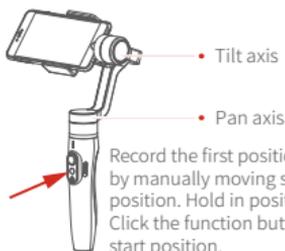
To set the motion speed, connect to the App and select desired speed from the motion control option in the settings menu.

Smart stabilizer rotation 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

2. Enter motion control mode by clicking the function button 4 times



3. Set rotation start position



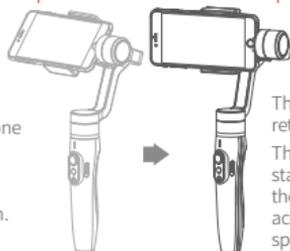
Record the first position (rotation start position) by manually moving smartphone to desired position. Hold in position for half a second. Click the function button to record rotation start position.

4. Set rotation end position



Record the second position (rotation end position) by manually moving smartphone to desired position. Hold in position for half a second. Click the function button to record rotation end position.

5. The stabilizer moves from rotation start position to rotation end position



The stabilizer automatically returns to the start position. The tilt axis and the pan axis start to rotate uniformly from the start to the end position according to the set rotation speed.

Exit operations:

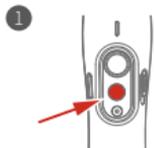
When in motion control mode, you can double click the trigger button to reset the stabilizer to the default mode.

After the auto-rotation is finished, the stabilizer automatically exits auto-rotation mode and enters follow mode.

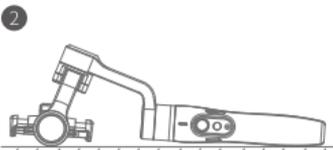
Stabilizer reset

Reset stabilizer when:

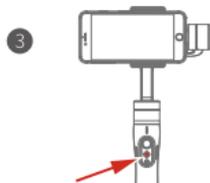
- (1) Smartphone fails to remain level.
- (2) The stabilizer has not been used for a long period of time.
- (3) The stabilizer is used in extreme temperature variations.



Click the function button five times. The motors will stop working. Status indicator turns solid blue.



Place the stabilizer on a flat, horizontal surface. The stabilizer will automatically reset after a few seconds detecting no movement. The blue light will flash three times to indicate end of the reset process.



After the reset is successful, click the function button to restart.

Note: if the reset is not successful, click the function button to restart. Try the reset process again.

App download and firmware upgrade

1. App download



iOS Version



Android Version

For iOS users: scan the QR code or go to the App Store and search for "Smart Stabilizer".

For Android users: scan the QR code or go to Google Play and search for "Smart Stabilizer".



App Store



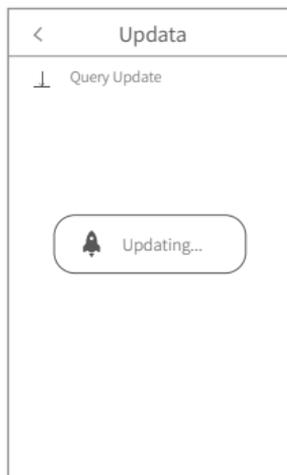
Google play

2. Firmware upgrade

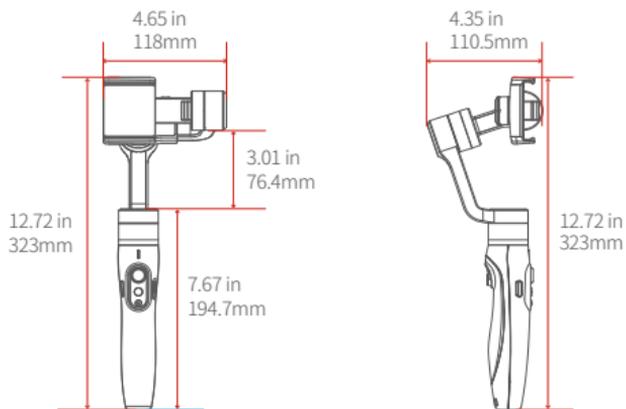
Connect the stabilizer to the App to upgrade the firmware.



Stabilizer



Technical specifications



Max. tilt range	320°	Maximum load weight	210g / 0.46 lbs
Max. roll range	320°		
Max. pan range	320°		
Operation time	operation time in motion shooting: around 5 hours; operation time in normal shooting: around 10 hours		
Phone compatibility	smartphones (mobile phone width range: 2.2-3.3in / 57-84mm)		
Weight	428g / 0.94 lbs (Not including the smartphone)		

----- IMPORTANT NOTES -----

- The smartphone must be balanced to guarantee the correct functioning of the stabilizer.
- Turn on the stabilizer only when the smartphone is mounted, otherwise motors might be damaged.
- Vibrating is normal for the first few seconds after turning on the stabilizer. It will disappear when the motor's auto-adjustment is done.
- Do not force the motors to rotate rapidly since they cannot spin 360°.
- Keep the stabilizer away from impact when the telescopic handle is extended. (as shown in Figure a)
- When the stabilizer is powered on, don't grab the top part. (as shown in Figure b)
- If placing the stabilizer on a flat surface, put the stabilizer on a tripod to ensure it is upright. (as shown in Figure c)
- Keep the stabilizer away from water.
- The stabilizer is not compatible with quick chargers.

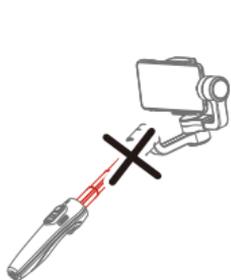


Figure a

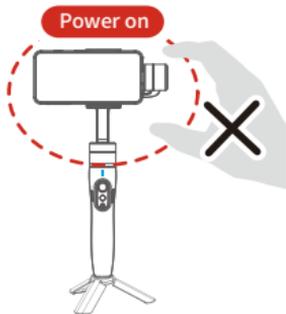


Figure b



Figure c

FAQ

1. The stabilizer can't stabilize or motors are powerless after booting.

Ensure that the smartphone has been mounted and balanced correctly on the stabilizer.

2. Vibration happens when using the stabilizer in normal way.

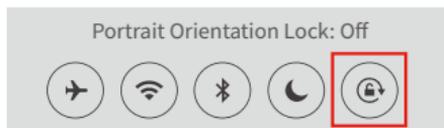
Default value of motor strength is a bit high so that the stabilizer can work properly in portrait mode. If the smartphone is lighter in weight, there might be vibrations. If that happens, connect the stabilizer with the App and adjust the rate of motor strength.

3. "No Stabilizer Found" or "Connection Fail" when trying to connect the stabilizer with the App.

- (1) Forget the stabilizer or cancel pairing in Bluetooth list of the smartphone. Close and open phone's Bluetooth then search again the stabilizer.
- (2) If the stabilizer can't be found in the Bluetooth list, it may be connected with previously paired phones. Turn off the Bluetooth of other phones and search again in the App.
- (3) Reboot the smartphone if the problem persists.

4. iPhone moves randomly when performing face tracking or object tracking.

- (1) Go to the phone control center and make sure the screen rotation is unlocked.
- (2) Restore default settings in the App.



DISCLAIMER

Any use for illegal purposes is prohibited. Users are responsible for properly using product.

The manufacturer 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).

Firmware upgrades may cause changes in function descriptions in this user manual. Read the instructions carefully before upgrading the firmware and use the corresponding user manual.

The manufacturer reserves the right to amend this manual and the terms and conditions of using the product.

Certification and Compliance



FCC ID:

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, and
- (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.

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