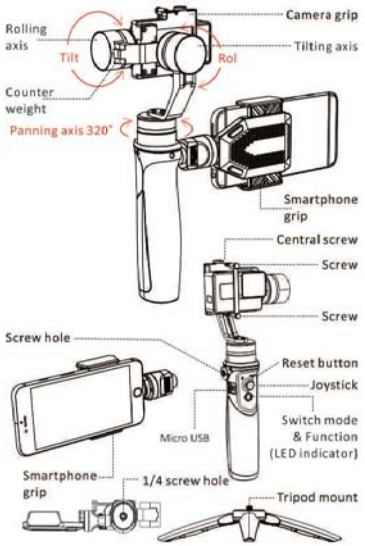
KGH310 User Manual



135 mm

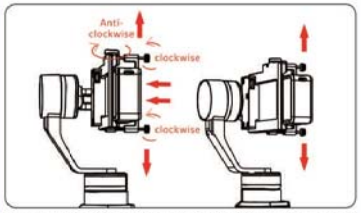
3-axis Handheld Stabilizing Gimbal



• In the Box

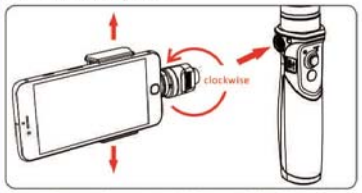
Smart phone grip x 1 Pouch x 1 Micro USB cable x1
Tripod mount x 1(optional) User manual x 1

2.1. Install the camera

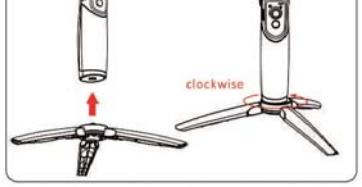


Put the pitch to the LEFT side, place the camera close to the clip as shown above. Refine the location of camera to get better physical centroid matching before turn on the gimbal. Double tighten by the 2 long screws against violent movement.
Note: Camera can be GoPro Hero 3/4/5/YI CAM/SMCAM/AEE or other action camera of similar size.

2.2. Install smartphone

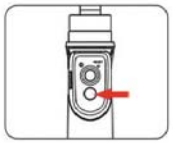


Insert the smartphone grip into the screw hole of the left side of the hand shank and clockwise it.Pull up the installation grip to an appropriate width and put the smartphone into the phone grip.Please make sure the phone is installation tightly and then go to next step.



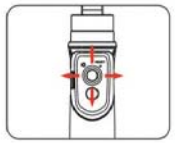
Insert the tripod mount into the 1/4 screw hole on the bottom of the hand shank and clockwise it.

2.4. Power on



After confirm the smartphone has been installed well,please press the function buttom till the bluetooth light flashing quickly for 2s. Then the device will be powered on.

2.5. Switch mode & Function



Pressing the joystick button can switch the working mode. Pressing the function button can take photo and record. Detailed instruction see as follows.

2.6. Short press the power button to start charging the stabilizer with the Micro USB cable supplied when the stabilizer is powered off .

App Store Google play

3.1 Download. download the APP "Gimbal setting"from APP store for IOS users and Google play or Android market for Android users.

3.2 Connection. Turn on the Bluetooth of the smartphone and connect the APP to the smartphone, then the Bluetooth light will be solid. At this moment, you can control the direction of the camera via Joystick.

3.3 Refer to APP operation instructions below for the Smart Follow Mode.

4. Working Mode & Operation Instructions

• LED Indicator

Indicator status	Mode	Description
Single Flash	Panning Mode	Smartphone is allowed to pan left or right. Vertical tilts or rolls are restricted
Double Flash	Panning and tilting Mode	Smartphone is allowed to pan left or right and tilt up and down. Rolls are restricted
Triple Flash	Lock Mode	All panning, tilting and rolling are restricted

Attention! It is low power warning when LED indicator flashes quickly. Please charge the stabilizer.

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.

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.

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Kenxen Digitech Limited declares that the radio equipment type KGH310 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.kenxen.com

Victor Lee
R&D Manager
Date: 01/09/2017

8. Attention

Please install and use in accordance to the user manual!.

① Please charge the stabilizer with the provided USB cable.
② Please install the smartphone securely before powering on the stabilizer.
③ You are solely responsible for all behaviors of purchase and use of the products. The device, nor any of its affiliates, are not liable nor responsible in any way for your use of it.
④ Prohibit any use for any illegal purchase. For any unknown and/or illegal sources of purchasing or using, we will not provide any service.
⑤ The device or any of its affiliates assume zero liability for any risks related to or resulting from the debug and use of this product (including the direct, indirect or third-party losses). Please contact the technical support from kenxen company for any use problem.
⑥ All right of final explanations are reserved by kenxen company.

Warning

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

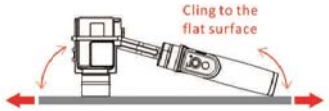
ROHS

This product is in compliance with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011, on the restriction of the use of certain hazardous substances in electrical equipment.

7.2. Stabilizer calibration method

No 1: Off-line initialization

① Power on, wait 3s, ensure the stabilizer is working normally.
② Long press joystick over 6s, all motors will be off, meanwhile function button
③ Put the stabilizer on the flat surface as shown in the figure, make sure there is no vibration, and check function button indicator, If consecutively flashing three times , it means initialization finished.
Note: It must put on a horizontal surface, and no vibration between the stabilizer and the surface, and easy to view the LED indicator status.
④ After calibration, switch off the power of stabilizer and restart it to confirm successful calibration. If not calibrated successfully, redo the calibration procedure.



No 2: Initialization via firmware upgrading

Please visit our official website of http://www.kenxen.com to download the initialization firmware and operation to initialize the stabilizer.

No 3: APP Calibration

Please refer to the calibration guidelines in Gimbal setting

5. User Advice

① In order to achieve better shooting performance, keep stable and slow movement when shooting.
② Tilting angle adjustment: when working, control joystick in up/down direction to adjust the tilt angle you want, then single press joystick to lock the angle.
③ Spot shooting: If shooting a stable object, after adjust the tilt angle, enter lock mode, then you can shoot it for a long time.

6. Firmware Upgrade

Please visit our official website http://www.kenxen.com to download the driver, firmware upgrade software and the latest firmware and update operation. Then refer to the manual of update operation to upgrading.

7. Calibrating The Stabilizer

7.1. Stabilizer needs to be calibrated whenever the following situations appear after power on:

① After power on, the angle of tilt/pan is not level with the horizon line;
② After power on, the angle of roll is not parallel with horizon line;
③ When the stabilizer is in static panning, the angle of panning moves frequently.

• Bluetooth signal indicator

Bluetooth indicator status		Description
Quickly flash 2 times:		Switch on, it means power on. Switch off, it means power off.
Off		Bluetooth disconnected.
On	On constant	Bluetooth connected.
Charging:	Red	When Bluetooth is OFF
	Purple	When Bluetooth is ON
Charging Full	OFF	When Bluetooth is OFF
	Blue	When Bluetooth is ON

• Joystick Operation

Operation	Function	Description
Single Tap	Switch working mode	Switch to panning mode
Double Tap		Switch to Panning and tilting mode
Triple Tap		Panning,tilting and rolling axis are fixed
long tap for 6s	Pitch angle adjustment Zoom adjustment switch	/
	Off-line initialization	/
Up, down	Tilting angle or zoom adjustment	Bluetooth indicator is constantly on for tilting angle adjustment. Bluetooth indicator is flashing for zoom adjustment. Both function to switch by long press function button for 3s
Left, right	Panning angle adjustment	Panning and tilting mode

• Function Button Operation

Operation	Function	Description
Long Press	Power on/off	Bluetooth indicator quickly flashes 2 times, it means power on or off

• Parameters

Features	Standard	Description	Remarks
Working Voltage	3.7V	3.2V~4.2V	/
Tilting angle	0° (Horizon)	320°	/
Rolling angle	Start/Stop video	320°	Vertical hold
Panning angle	Start/Stop video	320°	Vertical hold
Overload Current Protection	2A		
Product size	421*197.6*47.2mm		
Weight	507g (Without package and accessories)		
Adaptation	iPhone7 Plus/6 Plus/6s Plus、iPhone7/6s/6、iPhone5/5s /SEand other smartphones with similar dimensions		
Frequency /power	2.402GHz - 2.480GHz / 1.79dBm		

深圳市康祥电子有限公司