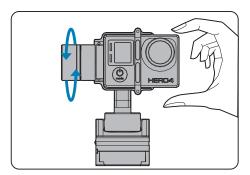


Rider-M



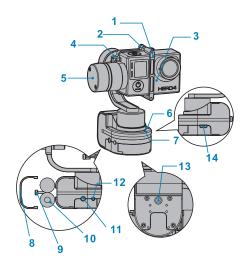
Rider-M is wearable mini gimbal. It has a standard 1/4 inch screw thread at bottom which can be compatible with most photographic equipment.. Small and light, its superior performance adds a professional touch to your videos.

Manual angle setting



The gimbal's direction can be set manually by holding the camera at the required angle for two seconds. Alternatively, use the APP or the Remote control.



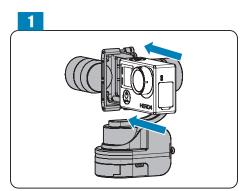


1. Camera retaining bracket	2. Camera bracket bolt
3.Camera (not included)	4.Camera mount
5.Pitch Motor	6.Power button
7.Indicator light	8.Battery cover
9.Battery cover thumbscrew	10.18350 Li-ion battery
11.Video output port	12.Mode button
13 1/4 inch screw thread	14.Micro USB port

2 Packing List

	Stabilizing gimbal		
	Camera Protection Sticker for pan motor		
	GoPro accessory adapter		
	Battery charger		
	Video output & charging cable (only for GoPro)		
	Micro USB cable		
	Camera charging cable		
	18350 Li-ion battery X 4		
保修卡	Warranty Card		
	UserManual		
名片卡	Contact Card		

3 Quick Start Guide



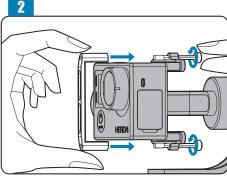
Slide the camera fully into the mount until it is tight



against the pitch motor.

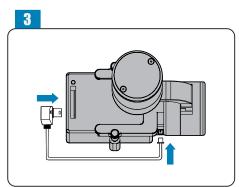
Note: 1. To avoid damage the gimbal; Do not start it with no camera installed.

2. The camera must be fully against the pitch motor or else the gimbal may produce vibration.

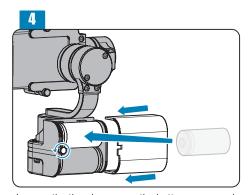


Attach the Camera retaining bracket to the camera mount with the correct sized Camera bracket bolt Then tighten the top and bottom bolts until the camera is held securely.

3 Quick Start Guide

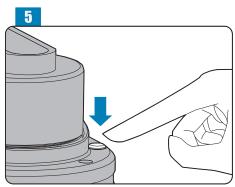


Plug the camera charging cable (or video output & charging cable) into the base of the gimbal and camera USB port as shown.

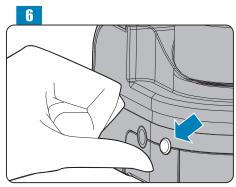


Loosen the thumbscrew on the battery cover and remove the cover. Insert 2 batteries (note the correct direction), reattach the cover and tighten the thumbscrew.

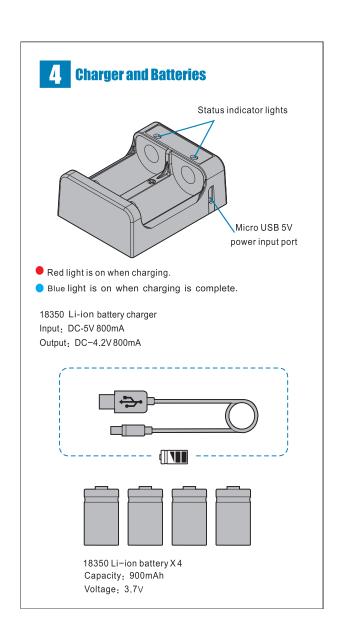
3 Quick Start Guide



Press the Power button to power on the gimbal.

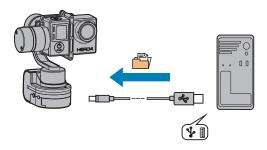


Press and hold the Mode button for a few seconds. The gimbal will start. Pressing the Mode button one or more times selects the different modes as required. (See section 5)

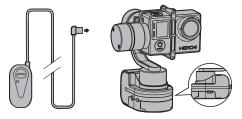


Interfaces and Buttons Descriptions

Micro USB port



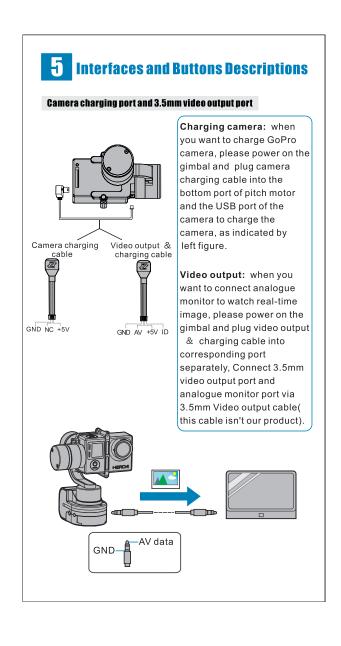
①Connect the gimbal to a computer with the Micro USB cable to upgrade the firmware or to use the online calibration program.



②Connect a remote control to operate the gimbal.

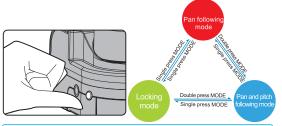


Note: The Micro USB port cannot be used for charging the batteries.



Interfaces and Buttons Descriptions

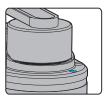
MODE



Mode switch: Pan follow mode is default mode, single press the MODE button to switch Pan following mode and Locking mode. Double press the MODE button to enter Pan and pitch following mode. In this mode, single press the MODE button again to go back to previous mode.

- Pan following mode(default): Pan axis(rotation left and right) follows the movement of the gimbal, while the camera remains locked in pitch(up and down) and roll (level) to remain upright. In this mode, press UP or DOWN button to adjust pitch angle.
- Locking mode: All three axes(pan, pitch and roll) are locked and the gimbal faces in one direction only. In this mode, press UP or DOWN button to adjust pitch angle.
- Pan and pitch following mode: Roll axis is locked, pitch and pan axis rotate to follow the movement of the gimbal. In this mode, press UP or DOWN button to adjust roll angle.

Power indicator light



Power remaining

Flashes 4 times	75 %- 100 %		
Flashes 3 times	50%-75%		
Flashes 2 times	25%-50%		
Flashes quickly	0%-25%		

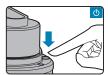


Download



For Android(supporting Android 4.3+) users, please download from Zhiyun official website(www.zhiyun-tech.com) or scan the left QR code to download. For IOS users, please search and download APP (ZhiYun Assistant) from APP Store.

Connect



①Turn on the gimbal by pressing the Power button.



②Turn on the Bluetooth function in the phone Settings.







③Open Rider-M APP, search for Bluetooth signals nearly and connect gimbal. Then the APP enter to Control page. Click Power ON, the gimbal start to work.

7 APP



Remote control gimbal

When the gimbal start to work, the Control page allows mode selection, angle changing on all axes and one key to return back to original working position.



On-line calibration

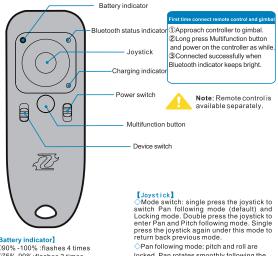
After gimbal connecting APP, enter to Calibration page, click START CALIBRATION, then place the gimbal as shown on the Contract Image(total 6 pictures) to complete six-side calibration.



Upgrade firmware

After gimbal connecting APP, enter to Update page, click START UPDATE to update gimbal firmware.

8 Wireless Remote Control



[Battery indicator]
①90% -100% :flashes 4 times
②75%-90% :flashes 3 times
③55%-75% :flashes 2 times
④30%-55% :flashes 1 times
⑤ 0% -30% :flashes frequently.

[Bluetooth status indicator]

①Before connecting device: continuously

②Connected: continuously bright; ③Device switching: flash 1 time.

[Charging indicator]

Charging: red light; Charging completed:

[Power switch]

Up: turn on; Down: turn off.

Up: connecting gimbal; Down:
connecting smartphone.
[Wultifunction button]
While the gimbal is connected, single press
this button, the gimbal
return back to original working position.

locked. Pan rotates smoothly following the pedestal or handle. Push up or down the joystick to adjust the pitch angle.

\times Locking mode: pan, pitch and roll are

locked. Push up or down the joystick to adjust pitch angle. Push left or right to adjust pan angle.

adjust pan angle.

Pan and Pitch following mode: roll is locked. Pitch and pan rotate smoothly following the pedestal or handle. Push left or right to adjust roll angle.

Note: All the operations are based on gimbal's function.

Charging voltage: 5V
Charging current: 100mA
≥50 working hours (theoretical)
Built-in lithium polymer battery with a
capacity of 150mAh
Transmit and receive current: 11.9mA

Normal operating current: 2.8mA Effective control distance : 10m (no obstructions)

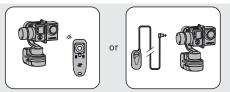


Gimbal calibration may be required in the following circumstances:

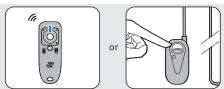
- 1. If there is deviation in the starting angles on roll or pitch that is not corrected by the Initialization process.

 2. If the gimbal has not been used for a long period of time.
- 3. If the temperature of the operating environment has changed considerably since the gimbal was last calibrated. (The built-in electronic gyroscope can be affected by extreme temperature changes)

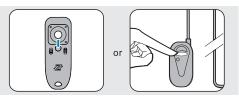
According to actual condition to choose remote control.



1. Press the Power button to turn the gimbal on. Connect the remote control to the gimbal. (About how to connecting remote control, please refer to User Manual.)



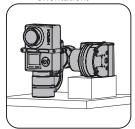
2. Move the Joystick up (press UP button) for more than one second until the light remains on.



3. Move the Joystick down (press DOWN button) for more than one second until the light flashes once regularly.



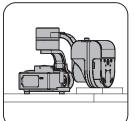
A Note: Please pay special attention to the camera's orientation.



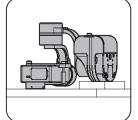
4. Place the gimbal as shown above. When successful, the light will flash 2 times regularly.



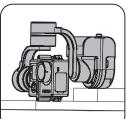
5. Place the gimbal as shown above. When successful, the light will flash 3 times regularly.



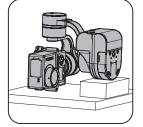
6. Place the gimbal as shown above. When successful, the light will flash 4 times regularly.



7. Place the gimbal as shown above. When successful, the light will flash 5 times regularly.



8. Place the gimbal as shown above. When successful, the light will flash 6 times regularly.

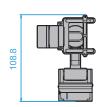


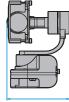
9. Place the gimbal as shown above. When successful, the light will remain bright for 5 seconds and re-enter standby mode. Calibration is then complete.



Maximum size of camera supported

Height: 42.7mm width: 31mm





•• Note: The figure shows the gimbal with a GoPro Hero 4. An optional camera mount for GoPro Hero 4 Session is available separately.

Technical parameters							
Item	Minimum	Standard	Maximum	Note			
Output voltage	6.8V		12.6V				
Working current	50mA	80mA	3000mA				
Camera charging voltage	4.5V	4.9V	5.1V				
Camera changing current		800mA					
Static attitude tracking error	±0.01		±0.05				
Dynamic attitude tracking error	±0.05	±0.1	±0.4				
Pitch axis mechanical movement range	-185°		+130°	Vertical			
Roll axis mechanical movement range	-40°		+40°				
Translation pan axis mechanical movement range	-320°		+320°	Vertical			
Translation pan axis mechanical movement range	-45°		+45°	Horizontal			
Pitch axis following rate	1°/S		50°/S				
Translation pan axis following rate	1°/S		80°/S				
Operation temperature	-20℃	25℃	50℃				
Battery life	3.5h	4.5h	5.5h				
Gimbal weight		180g					

Warning and Disclaimer

To ensure proper use of the battery please read the manual carefully before using it. Handling

- •Do not expose to, dispose of the battery in fire.
- Do not put the battery in a charger or equipment with wrong terminals connected.
- Avoid shorting the battery
- Avoid excessive physical shock or vibration.
- Do not disassemble or deform the battery.
- ●Do not immerse in water.
- Do not use the battery mixed with other different make, type, or model batteries.
- •Keep out of the reach of children.

Charge and discharge

- •Battery must be charged in appropriate charger only.
- •Never use a modified or damaged charger.
- ●Do not leave battery in charger over 24 hours.

storage

- •Store the battery in a cool, dry and well-ventilated area.
- ▶ Any illegal use of this product is forbidden. Users are responsible for using this product correctly and in accordance with the instructions provided: either in the manual or any online revisions.
- ▶ The company is not responsible for any damage caused while using this product; including direct, indirect or third party loss.
- ▶ Due to the company's policy of continuing improvement: firmware upgrades and changes to the software program may lead to changes in the product's functions to those described in the User Manual. Therefore please read the upgrade instructions carefully before upgrading the firmware and operate the product in accordance with any revised instructions.
- ► For the latest User Manual, firmware upgrades and online calibration program: please download from our official website: www.zhiyun-tech.com
- ▶ The company(Guilin Zhishen Information Technology Co., Ltd) reserves the rights to amend details or specifications at any time.



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Federal Communication Commission (FCC) Radiation Exposure Statement

When using the product, maintain a distance of 20cm from the body to ensure compliance with RF exposure requirements.

FCC statements:

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: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

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.