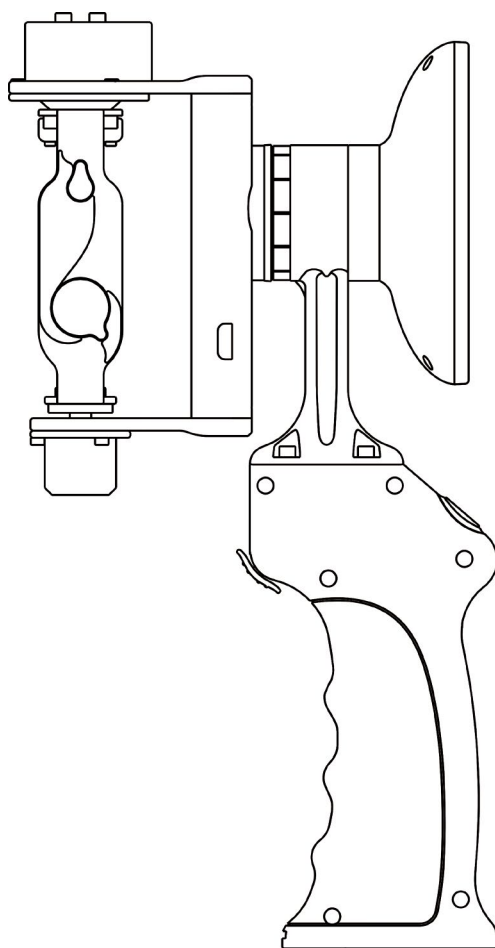




GP1⁺ USER GUIDE



More Than A Hero

CONTENTS



Technical Background

Introduction

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Technical Background

Fussy A.I. Logic – Combining the application on artificial intelligent algorithm with gyroscope, it proactively stabilizes the shooting of video in horizontal-axis (shakiness in horizontal levelling), in tilt-axis (shakiness in tilt angle), as well as directional-axis (shakiness in left and right motion). As a result, shakiness during video shoot can be greatly reduced.

Left right rotation 360° while keeping GoPro horizontal level stabilized



Fig 1-1

Front back rotation 360° while keeping GoPro vertical plane stabilized

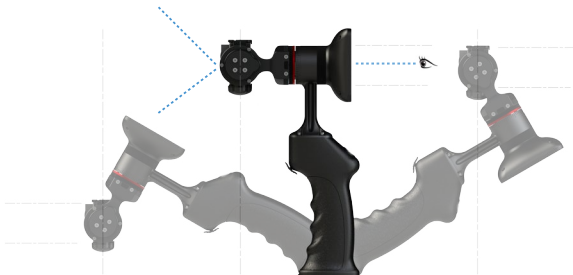


Fig 1-2

3VhS` UuW GeWd? aVWZBS` Ž-aUJ W
In "Pan locked mode" (Monitor on handle facing upward), shooting direction will be locked, while handle can still be freely rotated left and right.

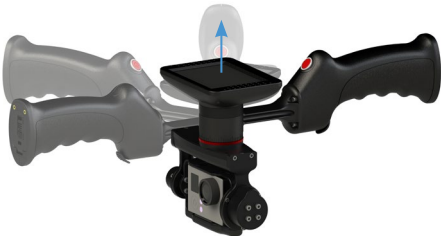


Fig 1-3

3VhS` UuW GeWd? aVWZ8a^ai Ž_ W
In "Follow-me mode" (Monitor on handle facing downward), GoPro will follow whatever direction when you move your handle.

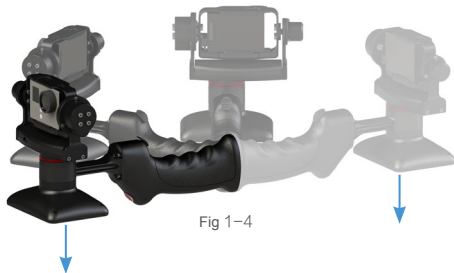


Fig 1-4

>wwwv, * A.I. for Artificial Intelligence
Horizontal-axis for roll direction
Tilt-axis for pitch direction
Directional-axis for pan direction

Introduction

WENPOD GP1+ is the state of the art digital gyroscopic stabilizer. It empowers stability and horizontal leveling when shooting video footage using GoPro action camera. With GP1 Plus, in combination with a few simple techniques, it empowers ordinary people to produce extraordinary video footages on the move. The built-in 3.5 inch rotatable monitor directly streaming recording image as well as for playback purposes for your convenience.. When GP1+ is turned on, it also acts as the supplementary battery source, which extends your GoPro power upto 2 hours (Under normal condition).

What's in the box

Please check your contents carefully. If any items are missing, please contact your retailer.

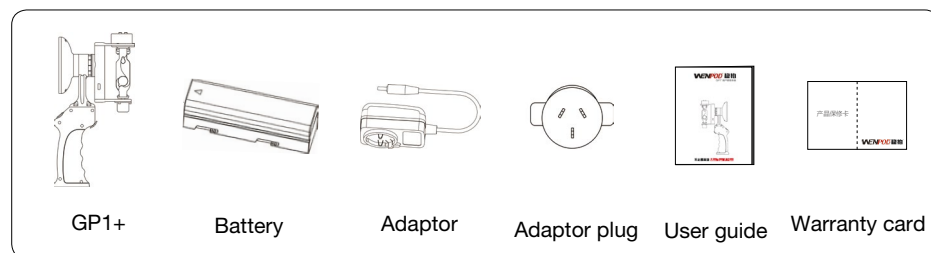


Fig. 2-1

Product Specifications

Model no.:	WENPOD GP1+
Dimension:	L 135mm W 75mm H 242mm
Weight:	405g (including battery)
Battery type:	LiPo battery with protective circuit board
Battery capacity:	800mAh, 11.1V
Operating time:	about 120min in normal room temperature
Charging time:	about 30min ("Lightning Charg-in" patent pending technology)
Operating temperature:	-10 to 40 degree celcius
Operating humidity:	10% - 90%
Operating angle:	360°All directions (Horizontal / Veritical axis)

Screen specifications

Screen size	- 3.5 inch
Brightness	- 400-800 cd/m ² (auto brightness adaptation)
Rotatable angle	- manually rotated 3 x 90° =270°

Supports GoPro Hero 1/2/3/3+/4 Black/Silver Edition action camera.

Backup power source for your GoPro: Actively supply battery power to your GoPro camera, when GP1+ is being powered on. It can extend your GoPro operating time upto 2 hours.



Fig 2-3



Fig 2-4

- ① GoPro REC button
- ② GoPro mounting frame
- ③ USB Port
- ④ Tilt axis motor
- ⑤ Tilt angle controller joystick
- ⑥ Roll axis motor
- ⑦ Manufacturer USB port ★
- ⑧ 3.5-inch rotatable LCD screen
- ⑨ Power ON/OFF button
- ⑩ Charging port
- ⑪ Battery compartment door



This USB port is for manufacturer maintenance purpose. Special USB cable is required. Connecting any cable or charging via that port is NOT permitted, and will cause damages to your SP1 Plus. Doing such will void your warranty.

Features

- 1** Horizontal-axis remain stabilized while handle can be freely rotated in 360 degrees.

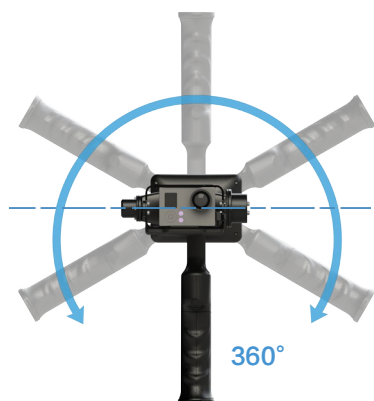


Fig 2-4

- 2** Horizontal-axis remain stabilized while handle can be freely rotated in 360 degrees.

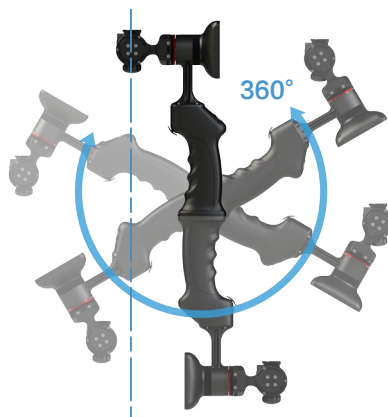


Fig 2-5

- 3** **Pan Lock Mode**
When handle is lifted up as in the following diagram (roll-axis motor is located above the GoPro camera), the motor that controls the horizontal leveling will seamlessly change to the pan-axis. This allows the lock on the pan direction, while other axis is still being stabilized.



Fig 2-6

- 4** **Follow-me mode**
When handle is flipped down as in the following diagram (roll-axis motor is located below the GoPro camera), the motor that controls the horizontal leveling will seamlessly change to the pan-axis. This allows the lock on the pan direction, while other axis is still being stabilized.

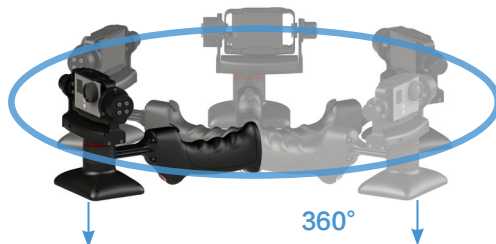


Fig 2-7

5 Rotatable LCD Screen

GP1+ comes with a 3.5-inch LCD screen which allows the user to enjoy real-time shooting.



Fig 2-8

Remarks *

To be manually rotated 180 degrees maximum from left or right. It will be hyper-rotated if the rotation angle exceeds 180 degrees thus it is considered as man-made damage.

6 Digital tilt angle control joystick

The digital joystick controller allow smooth operation in tilt angle control. Pull down = tilt up the camera. Push up = Tilt down camera.



Fig 2-9

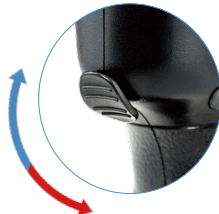


Fig2-10

7 Charging Function

When GP1+ is powered on, it serves a charging function via USB connection to prolong the GoPro camera's battery operating span.



Fig 2-11

Getting Started

This section introduces some basic yet important preparation steps as well as some basic operations.

Installing battery

As in the following diagrams, open the battery compartment door by sliding the switch to "open". Insert the battery in the direction of the triangle mark toward the battery compartment. Close the compartment door, and slide the switch to "lock" position.



Fig 3-1



Fig 3-2



Fig 3-3



Fig 3-4

Charging the battery

- ◆ Plug in the adaptor into the wall plug outlet. Flip up the protective cover on handle, and insert the charging plug into the charging port.
 - ◆ When the indicator LED on handle turns RED, the charging process has started.
 - ◆ When the battery is fully charged, the LED indicating light will go off.
 - ◆ After your battery is fully charged, please remove the charging plug as soon as possible, and cover the port with the protective cover. In addition, please remove the adaptor from the wall outlet.
 - ◆ If you intend not to use your GP1 for long period of time, please remove the battery, and place it in a clean and cool area.
- Remark: In normal room temperature, it requires about 30 minutes for completely discharged battery to be fully charged. The charging time may vary according to the temperature and power remained in the battery.

Installing the GoPro Camera

As shown in Fig 3-5, the GoPro lens is facing outward, a slight push to slide the camera towards the USB port (Fig 3-6 and Fig 3-7).

Remarks *

Before installation, ensure the GoPro camera functions normally and ensure there is adequate space in the memory card.



Fig 3-5



Figure 3-6



Fig 3-7

Power on

Hold the handle vertically upright with one hand, while the other hand holds the frame vertically upright as well as leveling it horizontally. Press power button, ensure your hands are stationary. After 2 seconds, the LED indicator light turns into slow flashing status, you may now release the hand that is holding the camera/frame, and GP1+ is ready to use in Landscape mode.



Fig 3-8



Fig 3-9

Remarks:

As soon as GP1+ is powered on, do not attempt to use the device immediately. Allow it to turn from still LED light mode to flashing mode. During this process, it automatically records the balancing status of GoPro and GP1 and sets it as default status.

Handling Method

Landscape Mode

In this mode, your footage will be recorded in landscape position. It is best suited for making a VIDEO SELFIE.



Fig 4-1

Hold handle invertedly ① (For advance users) This position can be reached by holding your handle in upright position and lower your arm naturally toward your legs. This position is best suited for low-angle shots for babies standing or crawling, pets and simulate shots as used in studio arm.



Fig 4-2

Hold handle invertedly ②

Flip the device over and hold it as shown in Fig 4-3. It allows GP1+ to shoot horizontally in slow skateboarding/scootering motion.



Fig 4-3

Hold handle horizontally

This position is best suited for shots as you move, also applicable to moving your camera shots. In this ergonomic position, your wrist movement will be actively cancelled by both the horizontal-axis and tilt-axis motors. This will enhance the stability of shots when you move.



Fig 4-4

Hold handle in Pan-Locked Mode (single hand, for advance users)

When holding the handle as the follow picture, flipping the horizontal-axis motor facing upward, the horizontal-axis will seamlessly change to pan-axis, and the Pan-Lock Mode will be activated using this gesture. In this mode, the direction of camera will remain locked, however, it is up to the operator to maintain the horizontal leveling manually. This position is best suitable for slow motion straight line shots.



Figure 4-7

Hold handle in Follow-me Mode (single hand, for advance users)

When holding the handle as the following picture, with the monitor screen facing downward, the horizontal-axis will seamlessly change to pan-axis, and the Follow-me Mode will be activated using this gesture. In this mode, the direction of camera will follow you wherever you turn your handle, however, it is up to the operator to maintain the horizontal leveling manually. This position is best suitable for slow motion non-directional shots.



Fig 4-8

Hold handle horizontally with both hands - Normal Mode① (for advance users)

Flipping the handle as the following picture shown, at the same time hold the screen gently with the other hand. This position is best suitable for long shots, as well as shots in normal pacing speed.



Hold handle horizontally with both hands - Pan-Locked Mode② (for advance users)

Flipping the handle as the following picture shown (the monitor screen facing upward), at the same time hold the monitor gently with the other hand. This enable the directional lock in your camera, while handle can still be freely moved. However, due to the change of axis, it requires the operator to maintain the horizontal leveling manually. This position is best suitable for long shots, as well as shots in normal pacing speed at a fixed shooting direction.



Fig 4-4

Hold handle horizontally with both hands - Follow-me Mode③ (for advance users)

Flipping the handle as the following picture shown (the monitor screen facing downward), at the same time hold the monitor gently with the other hand. This enables the follow-me function, which allows the camera to follow whatever direction when you move your handle. However, due to the change of axis, it requires the operator to maintain the horizontal leveling manually. This position is best suitable for following object shots in slow pacing speed.



Fig 4-5

More Than A Hero

Sporting



Fig 5-1

Mini movie productions



Fig 5-2



Fig 5-5



Fig 5-6

Baby vlog



Fig 5-7

Initialization

When there is change of camera, extreme changes in temperature, or instability during operation, you may need to reset your SP1 and carry out the initialization process. Initialization is NOT required during the day to day use except the above cases is encountered.

Procedures for Initialization / Reset

- 1 · Follow the step in page 7 to install and Pre-balance properly.
- 2 · Place GP1+ on a flat and stationary surface, and expose the power button as in Fig. 6-1.

Remarks: GoPro lens facing upwards.



Fig 6-1

- 3 · Press the power button (Fig. 6-2), and the LED light will start to flash. At this moment, GP1 Plus will automatically detect the environmental data such as temperature, magnetic field and humidity.
- 4 · After the flashing stage, LED will remain long lit for 2 seconds. As soon as the LED turns to a flashing stage, immediately hold the handle upright on the flat surface, at the same time holding the camera upright using the other hand. Then release the hand that holds the camera after 1 second (Fig. 6-3).
- 5 · At this stage, the LED will turn to long lit mode, and the angle adjustment process will begin.
- 6 · After the adjustment process, the LED will change to slow flashing mode (standby mode).
- 7 · You may power off and then power on the device to begin normal operation.



Fig 6-2



Fig 6-3

Attentions :

- ◆ GP1 Plus is delicate digital electronic equipment. Please stay away from strong magnetic field, fire, water or any high temperature, high humidity or high corrosive environment to avoid causing damage to this equipment.
- ◆ GP1+ is battery operated and controlled by our proprietary CPU and chipset. During the operation, please do not counteract the motors. If you found your SP1 behave abnormally, please check the battery. If LED remains long lit in operation, that means battery is low. Please replace a battery or charge it as soon as possible. If there is still power in battery, please go through the reset / initialization process.
- ◆ For best performance, please do not shake or touch SP1 during video recording.



Incorrect Handlings



Incorrect screen position

Fig 6-1



Use force upon GP1+

Fig 6-2



Incorrect Pitch-axis
motor direction

Fig 6-3



Incorrect Pitch-axis
motor direction

Fig 6-5



Use force pressing
the LCD screen

Fig 6-4

Common Errors

◆ During video shooting, why there are lost in frames?

Possible cause: CMOS sensor in GoPro does not support high speed recording.

Solution: Try to move slowly during recording.

◆ After GP1 Plus is Powered on, the LED light start flash, but the device is not operating.

Possible cause : Not enough power to operate the electronic device, or battery is dead.

Solution : Charge or replace the battery.

◆ Why footages taken by GP1 Plus is not horizontally leveled?

Possible cause :

1. The gyroscopic sensor needs reset due to temperature changes.
2. When powering on the GP1+, you have not hold the camera upright and

Solution :

1. Follow the steps in page 14 to perform the device auto initialization.
2. Power off. Hold the camera upright the first 2 second when you power on.

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* We reserve the right to make changes without further notice to any products herein.
Please refers to our official website www.gazercam.com for any update.

Safety information

Before using and operating the device, please read and pay attention the following precautions to ensure optimum equipment performance and to avoid dangerous or illegal situations.

Operating environment

Do not use the device in dusty, wet, dirty environment or close to magnetic fields, in order to avoid causing internal circuit failure.

Do not use the device during thunderstorm. It may lead to equipment failure or cause hazards. Please use or store this equipment and accessories in the temperature range from -10°C ~ 40°C . When the ambient temperature is too high or too low, it may cause malfunction to the device.

Do not place the device under direct sunlight, such as car dashboard or windowsill place.

Keep the equipment and accessories away from rain or moisture. It will cause fire or electric shock hazard. Do not place the device near heat sources or naked fire sources, such as electric heating, microwave, oven, water heater, fireplace, candles or other places that may generate high temperatures.

Accessory requirement

Use of unauthorized or incompatible power supplies, chargers or batteries may cause fire, explosion or other hazard.

Use only equipment approved by the manufacturer and model of the device with the matching accessories. If you use other types of accessories may invalidate any warranty of the device as well as the relevant provisions of the country and may cause accidents. To get approved accessories, please contact our authorized service center.

Electronic equipment

This equipment should not be used in any premises that electronic equipment is prohibited. It will interfere with other electronic equipment or cause other hazards.

Children precautions

This device and its accessories may contain small parts. Keep the device and its accessories out of the reach of children. Children could damage the device and its accessories inadvertently, or swallow small parts and may cause choking or other hazard. This equipment is not toys, children may operate only under adult supervision.

Adaptor Charger Safety

When the device is being charged, the equipment should be placed near the power outlet and should be easily accessible. When fully charged or not being charged, disconnect the charger from the device and unplug the charger from the power outlet. Do not drop or bump the charger. Please contact an authorized service center for replacement when housing of charger is damaged.

If the charger plug or power cord is damaged, please do not use to avoid electric shock or fire.

Do not touch the device or charger with wet hands. Do not unplug the charger by way of pulling the power cable. If charger is exposed to rain, liquid, or excessive moisture, discontinue to use and contact an authorized service center for replacement. Chargers must meet the safety requirement of "GB4943.1 IT equipment standard - 2.5 Restricted Power".

Battery Safety

Do not connect or touch battery poles with metal objects conductor, in order to avoid battery short circuit, and burns due to battery overheating and causing any injury.

Do not expose the battery to high temperature environment, such as under sunlight, heaters, microwave, oven or water heater. Battery overheating may cause explosion.

Do not disassemble or modify the battery, insert foreign objects, or immerge into the water or other liquids to avoid battery leakage, overheating, fire or explosion. If battery leaks, do not come into contact with skin or eyes with leaking liquid. If you come into contact with the skin or eyes, flush with water immediately, and go to the hospital for medical treatment.

If the battery is in use, saving in the process of charging or discoloration, deformation, abnormal heat and other anomalies, please stop using it and replace with new batteries. Do not throw batteries into the fire, otherwise it will cause the battery to fire and explosion.

Dispose of batteries according to local regulations, not dispose as household waste. If the battery is disposed of improperly can cause the battery to explode. Do not allow children or pets to swallow the bite batteries to avoid inflicting harm or cause the device to malfunction or explode.

Do not drop, crush, or puncture the battery. Avoid letting the battery from external pressure, causing the battery internal short circuit and overheating. Do not use a damaged battery. When the standby time of the device is significantly shorter than normal, replace the battery.

Care and Maintenance

Please keep equipment and accessories dry. Do not use microwave oven, hair dryer or any other external heating device to dry your equipment.

Do not store the equipment and accessories in extreme temperature environment. It may lead to device failure, fire or explosion.

Avoid strong impact or vibration to your equipment and accessories. It will result in failure.

Before cleaning and maintenance, please power off the device and discount all cable attached.

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device or its accessories. Use clean, dry, soft cloth to wipe the device or its accessories.

Do not attempt to modify or repair the equipment and accessories. It will void your warranty. For any problems, please contact an authorized service center.

WenPod 



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