



ACPN1
3-Axis Gimbal

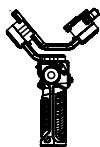


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01 Product List

Before use, ensure that all items listed below are included in the package.
If any item is missing, please contact GoPro or your local distributor.



Gimbal



AI tracker



Tripod



L-Bracket



camera base



phone clamp



Thumb screw



Thumb screw wrench



USB-c charging cable



USB-A to USB-c
charging cable



User manual



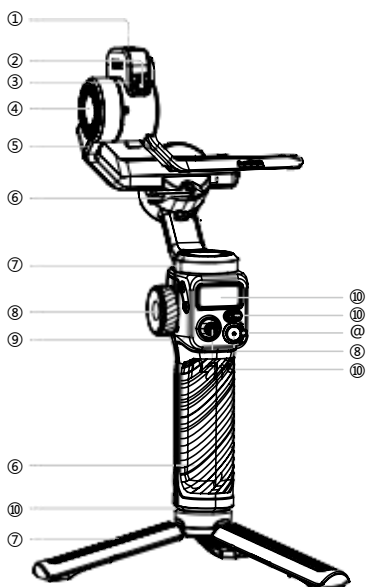
warranty card



carrying case

02 Meet ACPN1 3 Axis Gimbal (TBD)

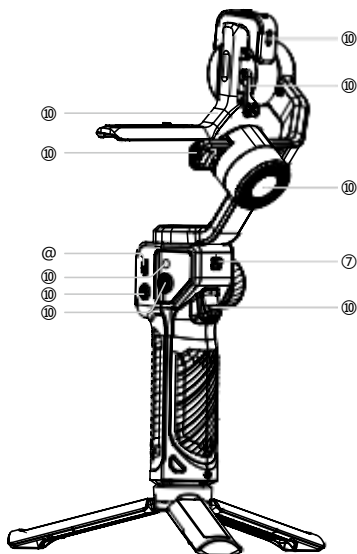
Front



- ① AI Tracker power switch
- ② AI Tracker
- ③ AI Tracker Mounting port(Type-C)
- ④ Tilt Motor
- ⑤ Roll Arm
- ⑥ Roll Arm Latch
- ⑦ pan Motor
- ⑧ side Roller
- ⑨ A/B Button

- ⑩ OLED screen
- ⑩ Mode Button
- @. zoom Lever
- ⑧ shutter Button
- ⑩ Joystick
- ⑥ Handle
- ⑩ 1/4"-20 UNC port
- ⑦ Tripod

Rear



- ⑩ power Output port(Type-C)
- ⑩ L-BracKet
- ⑩ Tilt Latch
- ⑩ 1/4"-20 UNC port
- @ power Input port(Type-C)
- ⑩ positioning Hole

- ⑩ power Button
- ⑩ 1/4"-20 UNC port
- ⑩ Roll Motor
- ⑦ pan Lock
- ⑩ Trigger

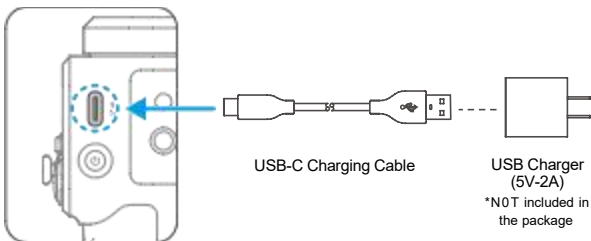
03 Charging

please fully charge the gimbal before using it for the first time.

The gimbal includes two Type-c ports.

The "IN" port on the handle is for charging the gimbal.

The "OUT" port on the AI Tracker provides power output.



charging Method:

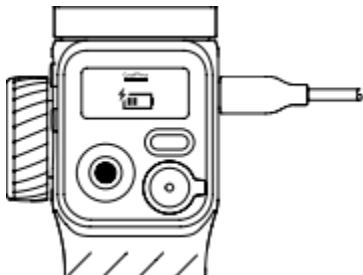
Use the included Type C charging cable to connect to the "IN" port on the gimbal handle to the charger* for charging.

*It is recommended to use a 5V-2A USB charger (not included).

charging Display:

Battery status is shown in the OLED screen.

Charging time: approx. 3 hours.



Reverse charging:

To use the gimbal as a power bank:

1. connect your phone to the "OUT" port.
2. If the gimbal is off, press the power button to start charging.
3. If the gimbal is on, charging will begin automatically.

04 First Use

compatible cameras:

Gopro HERO13 / 12 / 11 / 10 / 9 / 8 / 7 / 6 / 5 and all other models in the HERO series

compatible smartphones:

smartphones up to 7 inches

(weight $\leq$ 450g, width: 58mm-90mm, Thickness $\leq$ 12.5mm)

Refer to the official Gopro website (<https://www.gopro.com/TBD>) for the most updated compatibility List.

Attaching the Tripod

a. Attach the tripod to the bottom of the handle. Unfold it and place the gimbal on a flat, stable surface.

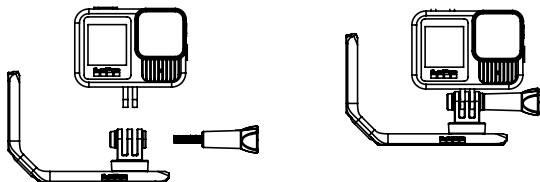


b. The gimbal is packaged in the locked position. Toggle the pan lock to the unlocked position to mount your device.



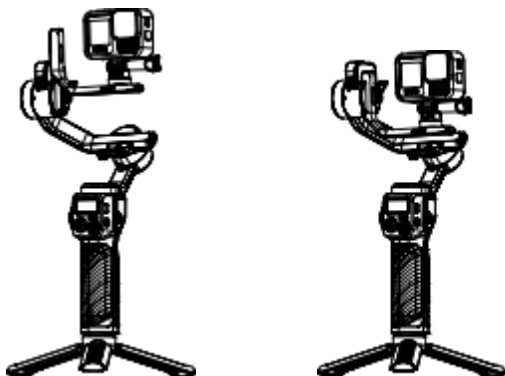
Mounting the Camera

Ensure the camera lens faces the direction marked with the GoPro logo on the L-bracket. Mount the camera onto the base and tighten it securely. Once secured, treat the camera, base, and L-bracket as one unit and attach it to the gimbal.



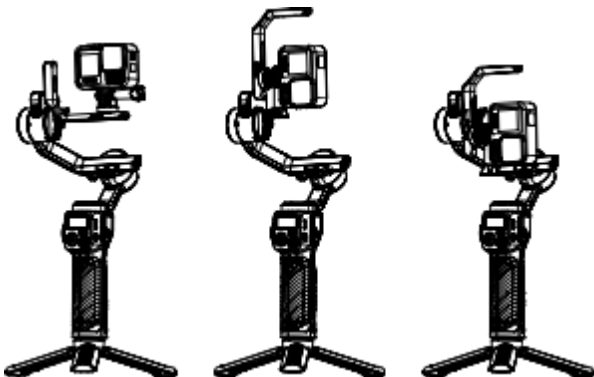
Landscape Mode Installation

Loosen the tilt latch, install the unit downward onto the gimbal, then tighten the latch to secure it.



switching to portrait Mode

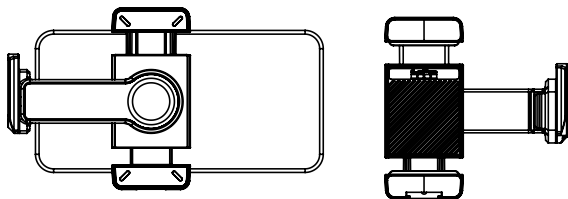
Loosen the tilt latch, remove the unit, rotate it 90° clockwise as shown in the figure below, and slide it into place. Then, tighten the latch to secure it.



Mounting the Mobile Phone

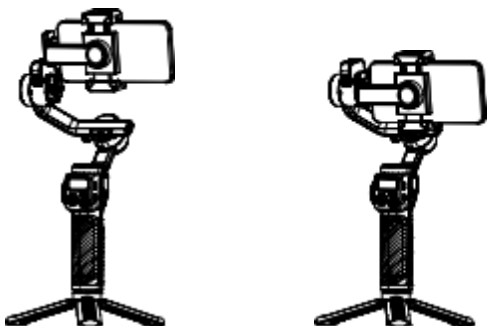
stretch the phone clamp to adapt to your mobile phone's width and attach it to the phone. Ensure the phone is snug against the rubber pad of the phone clamp.

Ensure the phone's camera faces the direction marked on the phone clamp.



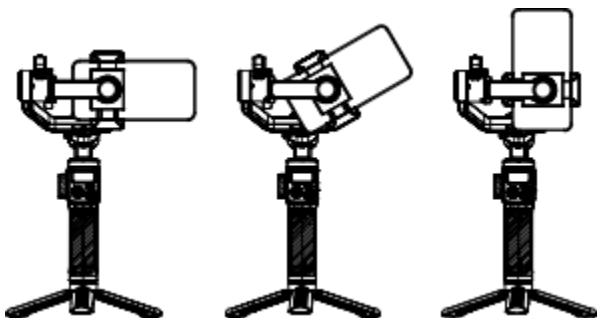
Landscape Mode Installation

Loosen the tilt latch, install the phone clamp downward onto the gimbal, then tighten the latch to secure it.



switching to portrait Mode

slightly move the phone outward, keeping a small gap from the rubber pad. Rotate the phone clamp 90°. clockwise as shown in the figure below.



*Here we take the camera as an example. The steps to balance the phone are basically the same.

Balancing the vertical Tilt

- a. unlock the tilt latch.
- b. Follow the figure below and hold the roll arm.
- c. Rotate the tilt axis so that the camera lens is pointing upward. check to make sure the camera is not left or right-heavy. If left-heavy, move the camera right. If right-heavy, move the camera left.
- d. The vertical tilt is balanced when the camera is steady while pointing upward. complete this step by tightening the tilt latch.



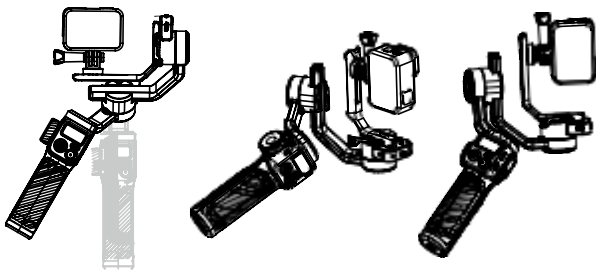
Balancing the Roll Axis

- a. unlock the roll latch.
- b. Follow the figure below and hold the pan arm.
- c. check the direction in which the roll motor swings. If the camera rotates to the left, move the camera to the right. If the camera rotates to the right, move the camera to the left.
- d. The roll axis is balanced when the camera is steady horizontally. complete this step by tightening the roll latch.



Quick Switch to Portrait Mode

- Hold the handle vertically as the figure below
 - Rotate your wrist to tilt the handle 90° to the upper left — the device will automatically switch to portrait mode.
 - Rotate your wrist again to hold the device in iashlight mode as shown in the figure — the device will remain in portrait mode.
- To switch back to the original orientation, simply rotate your wrist to return the handle to a vertical position.



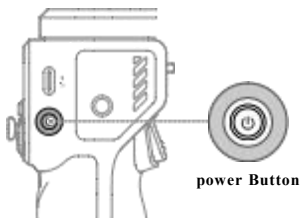
Tips:

- In this orientation, the joystick only controls the tilt axis (left/right phone movement).
- Not available in P0v mode.

Powering On/Off

Make sure the pan lock is in the unlocked position before using the gimbal.

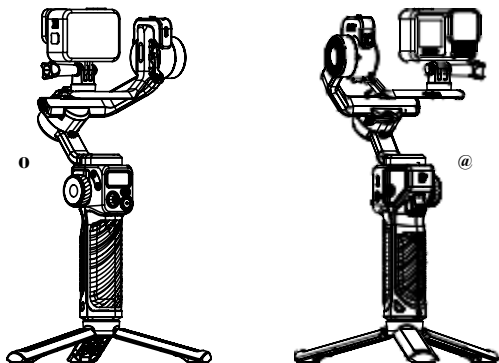
press and hold for 3s: Power on/of
press twice: Enter the standby mode
press once again: wake up the gimbal



Ultra-Wide-Angle Mode

Default mode as shown in the figure 1: There's no obstruction in front of touchscreen.

ultra-wide-angle shot mode as shown in the figure 2: The roll motor shifts to the front side of the touchscreen to avoid appearing in the frame.



05 Basic Operation

Bluetooth Connection

connect to the camera via Bluetooth

Enable Bluetooth on camera

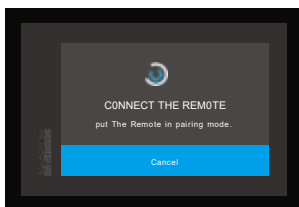
(The menu options may vary on different camera models. Here we take GoPro HERO13 Black as an example.)

Make sure that your device is in pairing mode, and then follow these steps on your GoPro:

1. swipe down on the rear screen to access the Dashboard, and then swipe left to add devices.
2. Tap pair Device. your GoPro will automatically start searching for compatible devices.
3. your GoPro will find all available devices. Tap the one you want to pair.

setting up Gimbal Bluetooth

1. Long-press the M button on the handle to enter the OLED sub-menu.
2. Press the A/B button to enter the device pairing interface.
3. Use the Joystick to select [PAIR] or [UNPAIR], and press the M button to confirm the operation.



connect to the phone via Bluetooth

1. Make sure the gimbal is powered on.
2. Activate Bluetooth on your smartphone and select the device named "GPG-xxxxxxx" from the list of available devices.
3. Follow the on-screen instructions to connect and pair.
4. A steady icon  on the OLED signifies a successful connection.



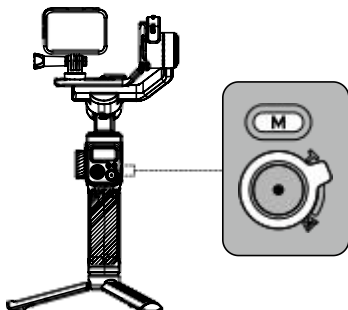
Bluetooth Reset

If the gimbal doesn't appear during Bluetooth scanning or was previously paired with another device, clear the Bluetooth pairing information before reconnecting.

To clear paired devices:

1. press and hold the M button for 5 seconds.
2. while holding the M button, push the zoom lever upward.
3. when the Bluetooth icon changes to [✕], all previous pairings have been cleared.

To pair a new device, repeat the standard connection steps.



Button and Port Functions

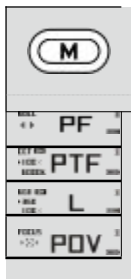


power Button

press and hold for 3s: On/Of

press once: check the battery level/start reverse charging

press twice: Enter standby mode(press once to wake the gimbal)



M button

press once: switch between working modes (pF-pTF-L-pOV)
press twice: pause/Resume AI Tracking
press three times: Enter Inception mode(360° infinite ccw spin, press M button once or press trigger twice to recenter the gimbal)
press five times: Auto calibration
press seven times: Remote control pairing
press nine times: clear the paired remote control
press and hold: Enters submenu on the OLED display
press and hold with zoom lever up: clear the Bluetooth connection



Joystick

push up/down: Tilt up/down
push left/right: pan left/right



Trigger

press twice: Recenter the gimbal
press three times: Forward-facing/Backward-facing phone position
press four times: ultra-wide-angle shot mode
press and hold: sport mode "s"
single click, then press and hold: switch to L mode temporarily(Release the trigger to return to the original mode)



zoom lever

Lever up/down: zoom in/out (T/w)

shutter button

Half-press: Auto focus[1]
press once: Take a photo or start/stop recording[2]
press twice: photo/Video[1]
press three times: Front/Rear camera[1]
 1.used within GoPro Gimbal app after Bluetooth connection.
 2.Bluetooth connection needed.



side Roller

supports the activation, switching, and setting of three functions: Fill light, Focus adjustment, and Motor control. Rotate the wheel to adjust the parameter values for each function.

a. Fill Light control

press and hold: Turn on/of the fill light

press once: submenu switch(Brightness/temperature)

press three times: Enter/exit fill light control submenu

b. Focus control

press twice: change to roll rotation

c. Roll Rotation

press twice: change to focus control



A-B Button

set the starting and ending point for track shooting or time-lapse footage along a designated path.

Note: This function should be used separately from the time-lapse feature in the GoPro Gimbal app.

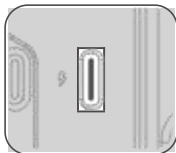
setting position A: Move the camera angle with the joystick to the start point, position A and long press Button A to set. A short beep means successful setting.

setting position B: Move the camera angle with the joystick to the end point, position B and long press Button B to set. A short beep means successful setting.

A-B motion: single press button A to return to position A from the current position, and then double press Button B to start A-B motion at a constant speed.

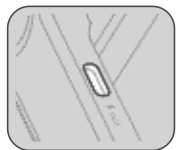
B-A motion: single press button B to return to position B from the current position, and then double press Button A to start B-A motion at a constant speed.

*Duration by default: 1 minute. You can customize duration in the GoPro Gimbal app.



Charging port (Type C)

Connect to a power source to charge the gimbal.



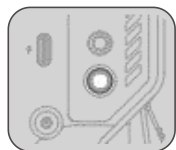
Reverse Charging port (Type C)

Connect a charging cable to provide reverse charging for your device.



1/4"-20 UNC port

The 1/4"-20 UNC port on the bottom of the gimbal allows for connection to a tripod or other extension poles. The 1/4"-20 UNC Port on the roll arm and the side of the handle can be used to attach creative accessories such as microphones or fill lights.



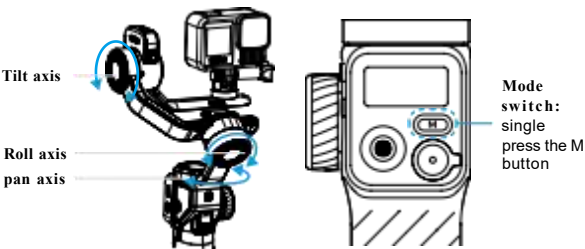
sling Handgrip port

This area is designated for installing the mounting plate of the sling handgrip.



Working Modes

The gimbal includes three axes of rotation: pan, tilt, and roll axes. The collaborative work between diferent axes results in the creation of 4 operation modes, each tailored to specific filming needs:



working Mode	Description	Functionality
pan Follow (pF) 	pan axis is active.	The gimbal allows the phone to pan left or right smoothly following the operator's movements, while maintaining a steady tilt and roll position.
pan and Tilt Follow (pTF) 	Both pan and Tilt axes are active.	This mode enables the phone to follow the operator's pan (left/right) and tilt (up/down) movements, ofering more dynamic control over the framing. The roll axis remains locked to keep the horizon level.

point of view (p0v)



All three axes
(Roll, Tilt, and
pan) are active.

This mode allows the phone to follow the operator's movements in all directions. It offers a 'first-person' perspective, capturing footage as if the viewers are seeing through the operator's eyes.

All Lock(L)



Enables or
disables the
follow mode
for each axis as
needed.

This mode allows you to custom the follow mode for each axis, such as disabling all three axes to enter All Lock Mode.
*In All Lock Mode, none of the three axes will follow the movement of the grip.

sport Mode (s)



The follow
speed of
the gimbal
increases for
capturing
quick-moving
subjects and
any fast paced
action.

Ideal for capturing fast-moving scenes where quick adjustments are necessary, like sports, wildlife photography, or action shots.

Inception Mode (ICp)



360. infinite
spin on pan axis
while holding
the gimbal
horizontally.

Great for artistic shots, cinematic storytelling, or any situation where a dramatic perspective change can enhance the visual narrative.

Manual Tilt Adjustment

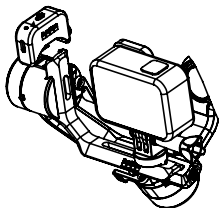
The tilt motor can be rotated by a certain angle by hand. Hold it for 2s and the camera angle will be fixed at that angle.



06 AI Tracking Functions

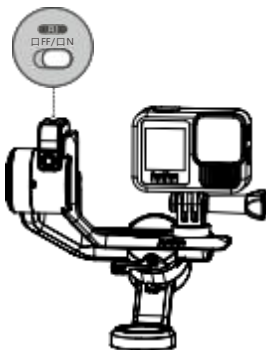
Mount the AI Tracker

Align the notch on the gimbal's tilt axis with the TyPe-C Port, then insert the AI Tracker.



Turn on the AI Tracker

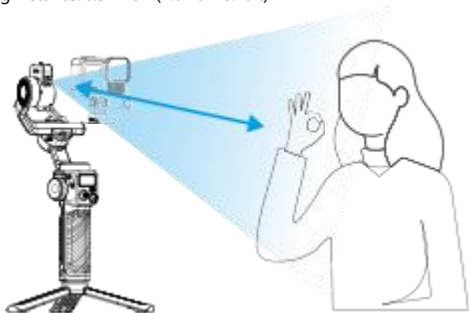
Toggle the switch to "ON". The fill light will flash twice quickly to indicate successful activation. Toggle the switch to "OFF" to turn off the AI Tracker.



Gesture Control

Gesture Recognition Distance: 0.5m~3.5m(1.64ft~11.48ft)

Tracking Distance: 0.5m~5m(1.64ft~16.40ft)



start AI Tracking



stop AI Tracking



shutter control
*Bluetooth connection needed.



customized composition
*steps: ①   ② Move to the ideal position ③  

Front/Rear Tracking

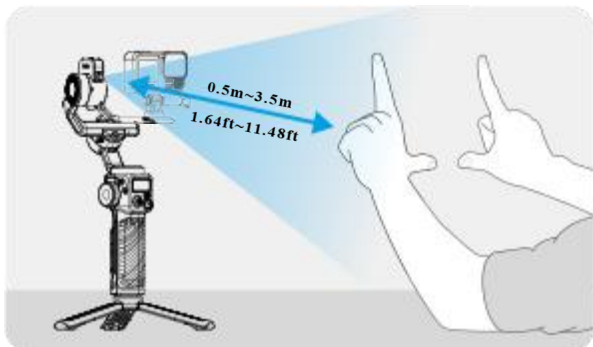
Remove the AI tracker, rotate it 180°, and then mount the AI tracker.



customized composition

when you use AI tracking for the first time, the AI tracker will keep you centered on the phone screen as it follows you. If you want to adjust your position to create more dynamic visual effects, follow the steps below:

- ① Make sure AI tracking is enabled. At this time, the AI indicator is solid green.
- ② Take the gesture towards the AI tracker and the indicator will blink green quickly.
- ③ Move in front of the screen until you find the preferred position to be tracked.
- ④ show the gesture again to confirm your new composition.



07 OLED Screen Interface

Home screen



① working status of control wheel

ROLL
Roll Axis control

FOCUS
Focus control

FILL LIGHT
Fill Light: **U** - Brightness **6000K** color Temperature

② working Mode

PF Pan Follow Mode

PTF Pan&Tilt Follow Mode

L All Lock Mode

POV All Follow Mode

S sport Mode

ICP Inception Mode

③ **AI Tracker status:**  solid/Flashing: AI tracKer Enabled

④ **camera Bluetooth connection:**  Bluetooth connected;
 Bluetooth Disconnected

⑤ **Mobile phone connection:**  Bluetooth connected;  Bluetooth Disconnected

⑥ **Battery Level:**  current Level;  In charging ;  Low Battery

Others

1. **standby:**  gimbal enters standby mode

2. **pan Axis Latch:**   pan axis is locked, unlock the Latch

3. **Error:**  Firmware error;  Gyroscope error;

 unbalancing/Motor unlocking/Overloading(May be caused by external disturbance);

 [-M1] Tilt Motor unlocking;

 [-M2] Roll Motor unlocking;

 [-M3] pan Motor unlocking

4. **A-B Motion:**  Move to the position A from the current position at a constant speed.

 Move to the position B from the current position at a constant speed.

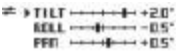
5. **Auto calibration:**  calibrating

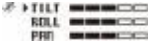
6. Firmware update:  Updating

7. pair Remote control(sold separately):  pairing;

 paired successfully;  pairing Failed

8. Motor Torque Adjustment:  Motor torque level of each axis; AUTO represents the motor self-adaptation level (AUTO bars iashing represents motor self-adaptation is being performed; AUTO bars stop iashing represents the completion of self-adaptation).

9. Motor angle fine-tune:  The current fine-tune value of angle for each motor

10. Follow speed Level:  current following speed of each motor

11. pairing & unpair:  signal strength icon iashing represents the gimbal is pairing with Gopro, signal strength icon stop iashing and a "✓" showing represents successful pairing.

(Note: If no camera is paired with gimbal within 60 seconds, signal strength icon stops iashing and  icon shows, which represents failed pairing;

 clear the paired camera,"  " represents successful unpairing.

08 GoPro Gimbal App (TBD)

Downloading

Scan the QR code or search "Gopro Gimbal" in App Store / Google play to download the app.



Gimbal Connection

- ① Attach your smartphone and turn on Gopro 3-Axis Gimbal.
- ② Turn on Bluetooth on your smartphone.
- ③ Open the Gopro Gimbal app. Follow the on-screen instructions to complete the connection.



①

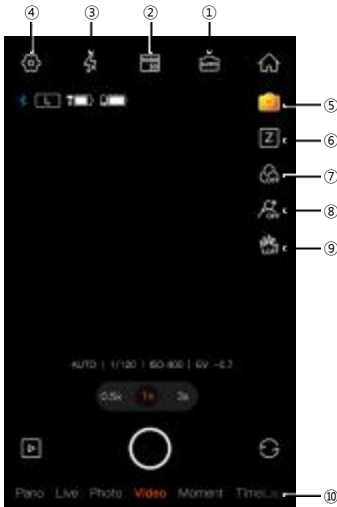


②

Camera Interface



*The camera interface is subject to change due to updates of GoPro Gimbal app version.



- | | | | |
|---|---|----------------------------------|--|
| ① |  | shooting parameters | set shutter speed, ISO and EV. |
| ② |  | Resolution and Frame Rate | set resolution and video frame rate. |
| ③ |  | Flash | Adjust the flash. |
| ④ |  | General settings | Includes gimbal parameters*, camera parameters, and gimbal information.
*you can configure the gimbal to default to either landscape or portrait mode upon startup. |

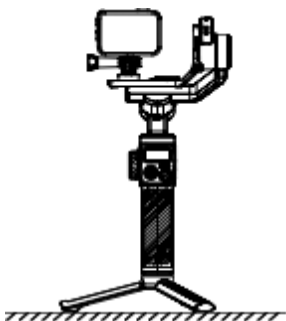
-
- | | | | |
|---|---|------------------------|---|
| ⑤ |  | creative studio | provides step-by-step shooting tutorials (camera moves and framing tips) according to the situation or environment. |
|---|---|------------------------|---|
-
- | | | | |
|---|---|--------------------------|--|
| ⑥ |  | zoom/Focus switch | (Z/F mode setup method: click "settings" → scroll down to select "seamless Zoom" → click close → press the Z icon → set the Z/F mode.) |
|---|---|--------------------------|--|
-
- | | | | |
|---|---|---------------|-----------------------------------|
| ⑦ |  | Filter | select a photo or a video filter. |
|---|---|---------------|-----------------------------------|
-
- | | | | |
|---|---|---------------|--|
| ⑧ |  | Beauty | select from auto, slim face, or big eyes beauty modes. |
|---|---|---------------|--|
-
- | | | | |
|---|---|------------------------|---|
| ⑨ |  | Gesture control | Enables person tracking and shutter control.
*For object tracking through app, you can drag-select the target on the phone screen. |
|---|---|------------------------|---|
-
- | | | | |
|---|--|--|--|
| ⑩ | Moment Templates | | |
| | various video templates are available; simply tap to start, and the camera will automatically execute the moves to create a video. | | |
-

09 Auto Calibration & Firmware Update

Auto Calibration

Auto calibration could reduce drift or slight deviation caused by nearby magnetic interference or human error.

① place the gimbal on a hard, flat surface after setting it up and powering it on.



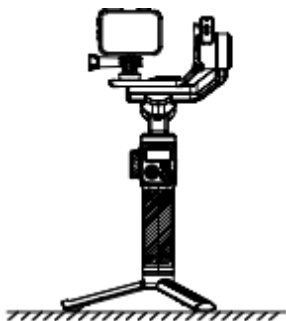
② press the trigger button twice to recenter the gimbal.



③ press the M button five times to enter auto calibration.



④ A single "beep" indicates that the calibration is complete.





*Note:

- ① During the auto calibration process, ensure that the remote control is connected to the gimbal.
- ② Failing to place the gimbal on a flat surface for calibration will result in calibration failure (e.g., attempting calibration while holding it in a vehicle).
- ③ If calibration fails, you'll hear two beeps, indicating standby mode. Press once the power button to exit standby and retry calibration.

Firmware Update

you will be prompted in the GoPro Gimbal App if a new firmware update is available. Follow the on-screen instructions in the App to update firmware.

10 Specifications

Gimbal

Model	ACPN1
Name	3-Axis Gimbal
Weight	Gimbal 500g(± 5 g) Tripod 102g(± 5 g)
Dimensions	Unfolded 316*141*138 mm Folded 270*190*74mm
Material	High-performance composite material
Payload	400g
Mobile Phone Width	58mm~90mm
Battery	7.4V/2600mAh/19.24Wh
Operating Time	Approx. 17-18 hours (Balanced and stationary) Approx. 6-8 hours (with AI tracking and fill light used simultaneously) *Data sourced from GoPro Laboratory

charging Time	Approx. 3 hours(5v-2A)
power consumption	0.96w (Balanced and stationary) 1.67w (Balanced and stationary, with AI tracker enabled)
charging Time	Approx. 3 hours(5v-2A)
controllable Range	pan: 360° Infinite Roll: -160° ~180° Tilt: -44° ~270°
Operating Temperature	-10° C~45° C
Motor protection	Motor protection The gimbal will automatically shut down in case of improper operation to protect the motor.

AI Tracker

weight	14g
Dimensions	45*26*15mm
pixel	1 Mp
Gesture Recognition Distance	0.5~3.5m(1.64ft~11.48ft)
Tracking Distance	0.5m~5m(1.64ft~16.40ft)
Light power	1w
Illuminance	150lux@0.5m
ccT	2700K'3500K'4500K'5500K'6500K

11 Compliance information

Federal Communication Commission Interference Statement

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.

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The device has been evaluated to meet general RF exposure requirement, The device can be used in portable exposure condition without restriction. Federal Communication Commission (FCC) Radiation Exposure Statement Power is so low that no RF exposure calculation is needed.

Radiation Exposure Statement:

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

ISED:

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

this device may not cause interference, and

this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada RSS exemptes de licence standard(s).

Son fonctionnement est soumis aux deux conditions suivantes:

(1) cet appareil ne peut pas provoquer d'interférences, et

(2) cet appareil doit accepter toute interférence, y compris celles pouvant causer un mauvais fonctionnement de l'appareil.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Radiation Exposure Statement

The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Déclaration d'exposition aux radiations:

Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé.

Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible.

Warning:- replacement of a battery with an incorrect type that can defeat a safeguard;

- disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and
- a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Do not use the device in the environment at too high or too low temperature,

never expose the device under strong sunshine or too wet environment.

The suitable temperature for the product and accessories is -10°C ~ 45°C.

Operation frequency(Max. EIRP):

Bluetooth: 2402 MHz ~ 2480 MHz(-5.99dBm)

This product can be used across EU member states.

EU Regulatory Conformance

Hereby, GoPro, Inc. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

For the declaration of conformity, visit the Web site
<https://gopro.com/help>

