



# Shenzhen Groundhog Software Technology BRAVEPRO Action Camera User Guide

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Action Camera User Guide 

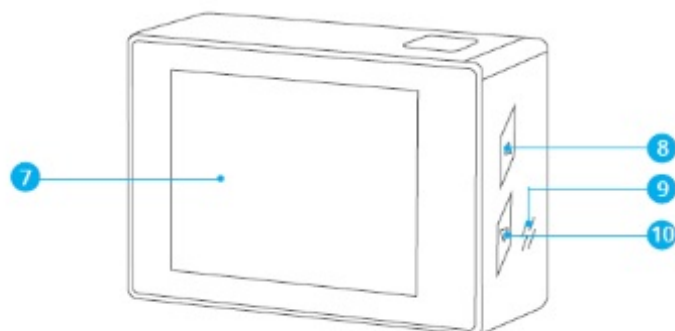
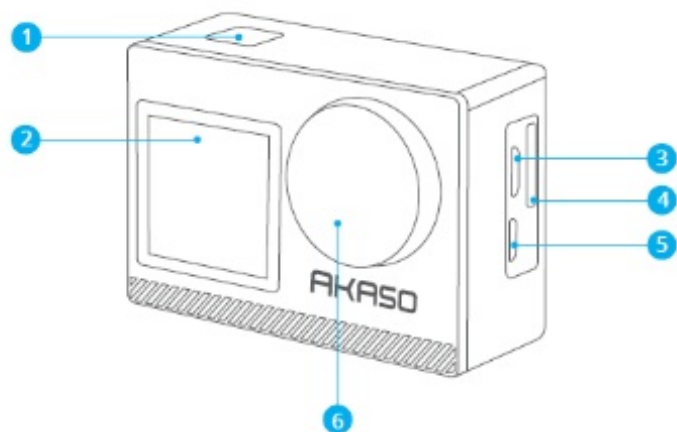
## WHAT'S IN THE BOX

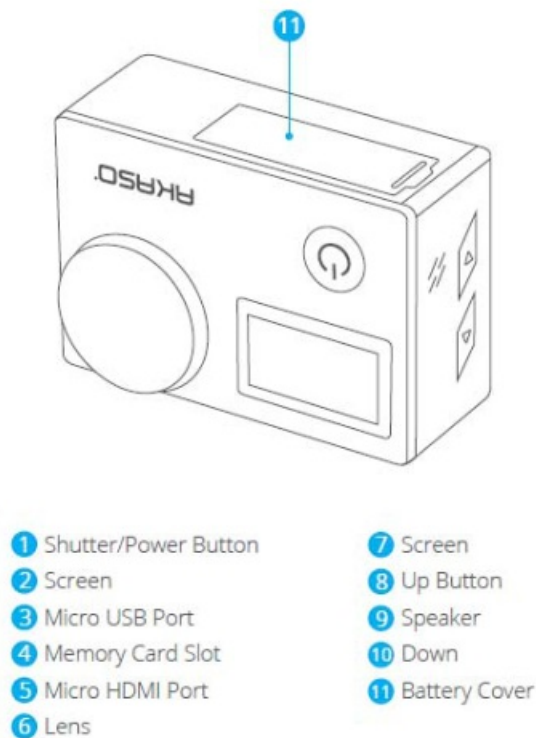
 Brave 4 Pro	 Waterproof Housing	 Handle Bar/ Pole Mount	 Mount 1
 Mount 2	 Mount 3	 Mount 4	 Mount 5
 Mount 6	 Mount 7	 Clip 1	 Clip 2
 Helmet Mounts	 Protective Backdoor	 Charger	 Battery
 USB Cable	 Tethers	 Lens Cloth	 Bandages
 Remote	 Quick Start Guide		

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## YOUR BRAVE 4PRO





Note: the camera will not record sound when it is in the waterproof case

## GETTING STARTED

Welcome to your AKASO Brave 4 Pro. To capture videos and photos, you need a memory card (not included).

### Memory CARDS

Use brand name memory cards that meet these requirements:

- UHS-Bt rating
- Capacity up to 64GB (FAT32)

Note:

1. Before using, please format the memory card in the camera. To keep your memory card in good condition, reformat it on a regular basis. Reformatting deletes all of your data, so be sure to transfer your photos and videos first.
2. The FAT32 format memory card will stop recording when the storage of each file exceeds 4GB and start to record again on a new file. POWERING ON/OFF

### To Power On

Press and hold the Power button for three seconds. The camera will beep and the status light will be on. When information appears on the display or the camera status screen, your camera is on.

To Power Off.

Press and hold the Power button for three seconds. The camera will beep and the status light will be off.

## SWITCHING MODE

To Switch Mode:

Turn on the camera, press the Power button to switch mode, or tap 'Video' on the screen and click to select modes.

To Exit Mode:

Press the Mode button to exit mode.

## TURNING ON/OFF Wifi

To turn on Wifi Turn on the camera, press and hold the Shutter button to turn on Wifi. You can also enter Camera Setting to turn on Wifi. To turn off Wifi Press the Down button to turn off Wifi. There are 5 modes: Video, Photo, Burst Photo, Time Lapse Video, Timer Photo and Wifi.

## OVERVIEW OF MODES

### Video Mode

Video Mode is the default mode when you turn on the camera. In Video Mode, press the Shutter button, the camera starts recording the video. Press the Shutter button again to stop recording. Press the Up or Down button to adjust the zoom level.



### Photo Mode

Press the Mode button once to switch to Photo Mode after you turn on the camera. In Photo Mode, press the Shutter button, the camera takes a photo. Press the Up or Down button to adjust the zoom level.



### **Burst Photo Mode**

Press the Mode button twice to enter Burst Photo Mode. In Burst Photo Mode, press the Shutter button, the camera will take 3/5/10 photos per second.

### **Time-Lapse Video Mode**

Press the Mode button several times to enter Time-Lapse Video Mode. In Time Lapse Video Mode, press the Shutter button to take a serial of Videos at 0.5s/1s/2s/5s/10s/the 30s/60s intervals. Timer Photo Mode Press the Mode button several times to enter

### **Timer Photo Mode.**

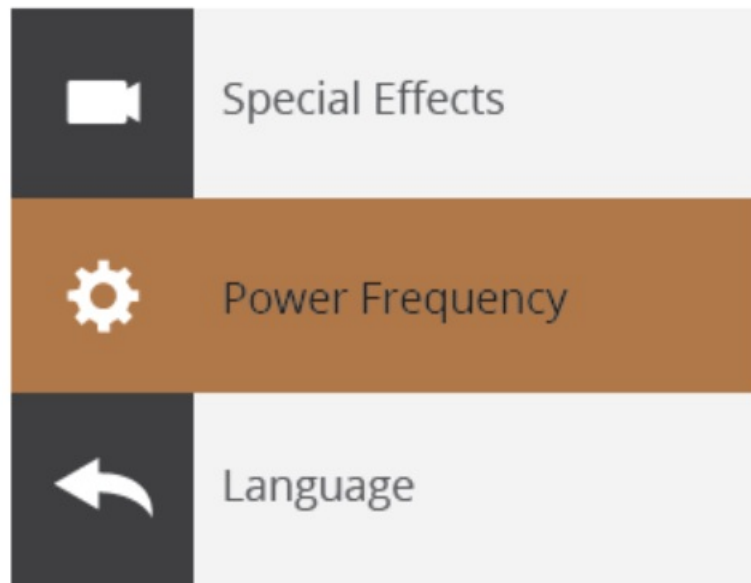
In Timer Photo Mode, press the Shutter button to take photos at 3s/5s/10s/the 20s/30s/60s timer.



### **Camera Setting Mode**

Press the Down button to enter Setting Mode. You can change camera settings in this mode.

Note: The camera will not record sound when it is in the waterproof case.



**1. Video Resolution:**

4K30FPS, 2.7K30FPS, 1080P120FPS, 1080P60FPS, 1080P30FPS, 720P240FPS, 720P120FPS, 720P60FPS, 720P30FPS Default setting is 4K30FPS. Note: When capturing video at high resolutions or high frame rates in warm ambient temperatures, the camera may get a high temperature and consume more power.

**2. Video Mode:**

Video, SlowMotion, Loop Record Default setting is Video. This setting is to select a video, slow motion, loop record mode.

**3. Image Stabilization:** Off/On

The default setting is Off.

This setting adjusts the footage to offset motion during capture. The result is smoother footage, especially in activities with relatively small but fast motion including cycling, motorcycling, and handheld uses.

**4. Angle:** Super Wide, Wide, Middle, Narrow Default setting is Super Wide.

The angle refers to how much of the scene (measured in degrees) can be captured through the camera lens. Super wide-angle capture the largest amount of the scene, while narrow-angle captures the least. This function is not available while image stabilization is on.

**5. Diving mode:** Off/On

The default setting is Off. Diving Mode can compensate for the lack of yellow light in underwater environments. Diving Mode is designed to be used in tropical and blue water, optimized for use between 10 and 80 feet.

**6. Video Length:** Off/2 Min/3 Min/5 Min

The default setting is Off. Using Loop Recording, you can continuously record but only save the moments you want to keep. For example, if you select a 5-minute interval, only the previous 5 minutes are saved when you press the Shutter button to stop recording. If you record for 5 minutes and do not press the Shutter button to stop recording and save, the camera will record a new 5-minute interval by recording over your previous 5 minutes of footage. When the memory card is full, the new files will cover the old one if loop recording is on.

**7. Exposure:** -3, -2, -1, 0, 1, 2, 3

Default setting is 0.

By default, your camera uses the entire image to determine the appropriate exposure level. However, Exposure lets you select an area that you want the camera to prioritize when determining exposure. This setting is

particularly useful in shots where an important region might otherwise be over-or underexposed. When you change this setting, the display immediately shows you the effect on your image. If you change modes, the camera returns to using the entire scene to determine the correct level of exposure.

8. **WDR:** Off/On

Default setting is Off.

Wide Dynamic Range (WDR) retains a greater level of detail in the dark and bright areas of an image. The result is a photo that is properly exposed for both of these extremes. This setting is especially useful for scenes that are backlit or that have large bright regions and a dark foreground. WDR is available in Video mode only.

9. **Metering:** Average/Center/Spot

The default setting is average.

Choose the way your camera measures the light of the scene.

10. **Sharpness:** High/Middle/Low

The default setting is High.

Sharpness controls the quality of details captured in your video footage or photos. When you change this setting, the touch display immediately shows you the effect on your image.

11. **Video Quality:** High/Middle/Low

Default setting is Middle.

12. **ISO:** Auto/100/200/400/800/1600/3200/6400

The default setting is Auto. ISO determines the camera's sensitivity to light and creates a trade-off between brightness and resulting image noise. Image noise refers to the degree of graininess in the image. In low light, higher ISO values result in brighter images, but with greater image noise. Lower values result in lower image noise, but darker images. When you change this setting, the display immediately shows you the effect on your image.

13. **Date Stamp:** Off/On

The default setting is On.

Turn on Date Stamp, this camera will add a date stamp to your videos and photos.

14. **Motion Detection:** Turn Off/Turn On

The default setting is turned off. Motion detection is the process of detecting a change in the position of an object relative to its surroundings or a change in the surroundings relative to an object. Turn on Motion Detection and camera, the camera records video automatically when it detects a change in the position of an object relative to its surroundings.

15. **Photo Resolution:** 20MP, 16MP, 13MP, 8MP

The default setting is 20M. 16. **Anti-shake:** Off/On Default setting is Off. This setting adjusts the footage to offset for motion during capture. The result is smoother footage, especially in activities with relatively small but fast motion including cycling, motorcycling, and handheld uses.

16. **Anti-shake:** Off/On

The default setting is Off. This setting adjusts the footage to offset for motion during capture. The result is smoother footage, especially in activities with relatively small but fast motion including cycling, motorcycling, and handheld uses.

17. **Burst Photo:** 3P/s, 5P/s, 10P/s

The default setting is 3P/s. Burst captures up to 10 photos in 1 second, so it is perfect for capturing fast-moving activities.

18. **Time Lapse Interval:** 0.5Sec/1Sec/2Sec/5Sec/10Sec/30Sec/60Sec

The default setting is 0.5Sec. Time-Lapse Video creates video from frames captured at specific intervals. This option lets you capture a time-lapse event and immediately view or share it as a video. Time-Lapse Video is captured without audio.

19. **Photo Interval:** 3Sec/5Sec/10Sec/20Sec/30Sec/60Sec

The default setting is 3Sec. This camera continuously takes pictures at the set time interval until it stops manually.

20. **Self-Timer:** Off/On

The default setting is off. A Self Timer gives a delay between pressing the shutter release and the shutters firing. It is most commonly used to let photographers to take a photo of themselves (often with family).

## CAMERA SETTING

1. **Special Effects:** Normal/Black and White/Negative/Retro/Red/Green/Blue Default setting is Normal.

2. **Power Frequency:** Auto/50 Hz/60 Hz

The default setting is Auto.

3. **Language:** the English Default setting is English.

4. **Date & Time:** MM/DD/YY

The date and time are automatically updated when you connect your camera to the AKASO GO App. However, you can manually change these settings, if needed. Note: If the battery is removed from the camera for an extended period of time, the date and time will be reset automatically.

5. Sounds:

Shutter: Off/On Beep: Off/On

Volume: 0/30/70/100 Boot: Off/On

Default setting is on.

You can turn on or off the shutter, boot, beep sounds. Sets the volume of your Brave 4 Pro's alerts

6. Drive Mode: Off/On

Default setting is Off.

7. Upside Down: Off/On Default setting is Off. This setting determines the orientation of your videos or photos to help you prevent upside-down footage.

8. Microphone: Built-in/External Default setting is Built-in.

9. Screen Saver: Unlimited/30s/1Min/2Min Default setting is 1 Minute. Turn off the display after a period of inactivity to save battery life. To turn on the display again, press any button on the camera.

10. Auto Power Off: Unlimited/3 Min/5 Min/10 Min Default setting is 3 Min. Power off your Brave 4 Pro after a period of inactivity to save battery life.

11. Format To keep your memory card in good condition, reformat it on a regular basis. Reformatting erases all of your content, so be sure to offload your photos and videos first. To reformat your card, press the Down button to enter the camera setting, then press the mode button and press Up button several times to enter Format > Memory > Storage Space Format/Cancel.

12. Reset: Return menu setting to defaults Confirm/Cancel This option resets all settings to their default values.

13. Device Info: Brave 4 Pro Version: FX9307I-V1.0 4-20-2021 You can check the model, version and updated time of your Brave 4 Pro.

## CONNECTING TO THE AKASO GO APP



The AKASO GO app lets you control your camera remotely using a smartphone or tablet. Features include full camera control, live preview, playback, download, sharing of content, and setting the camera.

1. Download AKASO GO app to your mobile device from the Apple App Store or Google Play.
2. Turn on the camera, then enter Camera Setting to turn on Wifi. You can also press and hold the Shutter button to turn on Wifi.
3. Turn on the Wifi of your mobile device, connect to the Wifi AKASO-Brave 4 Pro-B1-XXXX.
4. Enter the password: 1234567890.
5. Open the AKASO GO app.

## **PLAYING BACK YOUR DATA**

You can playback your content on the camera's display, your computer, TV, or smartphone/tablet. You can also playback content by inserting the memory card directly into a device, such as a computer or compatible TV. With this method, playback resolution depends on the resolution of the device and its ability to playback that resolution.

### **VIEWING VIDEOS AND PHOTOS ON YOUR BRAVE 4 PRO**

1. Turn on the camera.
2. Tap the video playback icon at the left corner of the screen to enter playback mode.
3. Tap the file icon.
4. Tap the Forward or Backward icon to playback videos or photo files.
5. Tap the video playback icon to playback videos in full-screen view.
6. To exit the videos or photo files, tap the return icon.

Note: If your memory card contains a lot of content it might take a minute to load.

1. Enter playback mode.
2. Tap the video playback icon or file icon.
3. Tap the Forward or Backward icon to locate the video or photo file you want to delete.
4. Tap. The screen shows 'Delete this file? Yes/No'.
5. Tap\*Yes\*, the selected file will be deleted.

## **TRANSFERRING YOUR DATA**

### **TRANSFERRING YOUR DATA TO A COMPUTER**

To playback your video and photos on a computer, you must first transfer these files to a computer. Transferring also frees up space on your memory card for new content. To offload files to a computer using a card reader (not included) and your computer's file explorer, connect the card reader to the computer, then insert the memory card. You can then transfer files to your computer or delete selected files on your card. Note that you must use a card reader to offload photos or audio files.

### **TRANSFERRING YOUR DATA TO A SMARTPHONE OR TABLET**

1. Open the AKASO GO App. Connect the camera with the App.
2. Tap the Playback icon to see all the videos and photos.
3. Tap the icon and select the photo or video you want to download and then tap

The Download icon at the bottom right corner.

Note:

1. If you cannot offload videos or photos to iPhone or iPad, please enter Setting — Privacy — Photos, find 'AKASO GO' and select 'Read and Write'.
2. iPhone and iPad do not allow you to download 4K or 2.7K video via the Wifi app.
3. Please offload 4K or 2.7K videos via card reader.

## **MAINTAINING YOUR CAMERA**

Follow these guidelines to get the best performance from your camera:

1. For best audio performance, shake the camera or blow on the mic to remove debris from the microphone holes.
2. To clean the lens, wipe it with a soft, lint-free cloth. Do not insert foreign objects around the lens.
3. Don't touch the lens with your fingers.
4. Keep the camera away from drops and bumps, which may cause damage to the parts inside.
5. Keep the camera away from high temperatures and strong sunshine to avoid being damaged.

## **MAXIMIZING BATTERY LIFE**

If the battery reaches 0% while recording, the camera saves the file and powers off. To maximize battery life, follow these guidelines when possible:

- Turn off Wireless Connections
- Capture video at lower frame rates and resolutions
- Use Screen Saver setting.

### **ADJUSTING THE ZOOM LEVEL**

The Zoom function lets you adjust how close or far away the subject appears in your photo. The default is no zoom. The zoom function is available in Video and Burst Photo and Timer Photo Mode. Brave 4 Pro can 5X zoom.

1. Turn on Brave 4 Pro.
2. Enter Video or Burst Photo, Timer Photo Mode.
3. Press and hold Up or Down button to adjust the zoom level.

## **REFORMATTING YOUR MEMORY CARD**

To keep your memory card in a good condition, reformat it on a regular basis. Reformatting erases all of your content, so be sure to offload your photos and videos first.

1. Press and hold the Mode button for 3 seconds to turn on Brave 4 Pro.
2. Press the Down button or tap the setting icon on the screen to enter Camera Setting.
3. Press the Mode button and then press the Down button to find the 'Format' option.
4. Press the Shutter button, the screen shows 'memory card Storage Space: xx/xx Format/ Cancel:
5. Press the Shutter button, The screen shows 'Formatting...'Format successfully'. Then you format your memory card successfully.

## BATTERY STORAGE AND OPERATION

The camera contains sensitive components, including the battery. Avoid exposing your camera to very cold or very hot temperatures. Low or high-temperature conditions may temporarily shorten the battery life or cause the camera to temporarily stop working properly. Avoid dramatic changes in temperature or humidity when using the camera, as condensation may form on or within the camera.

- Do not dry the camera or battery with an external heat source such as a microwave oven or hairdryer. Damage to the camera or battery caused by the liquid inside the body is excluded from the warranty.
- Do not store the battery with metal objects such as coins, keys, or necklaces. If the battery terminals come close to metal objects, fire may be caused.
- Do not make any unauthorized alterations to the camera as this may compromise the safety, regulatory compliance or performance, and may void the warranty.

**WARNING:** Do not drop, disassemble, open, crush, bend, deform, puncture, shred, microwave, incinerate or paint the camera or battery. Do not insert foreign objects into the battery opening of the camera. Do not use the camera or the battery if it has been damaged – for example, if cracked, punctured or damaged by water. Disassembling or puncturing the battery can cause an explosion or fire.

FCC ID: 2A26L-BRAVE4PRO IC: 22901-BRAVE4PRO Model: Brave 4 Pro

## FCC Statement

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

## IC Statement

This device contains license-exempt transmitter(receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference; and
2. This device must accept any interference, including interference that may cause undesired operation of the device. The term "IC: " before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.

## Documents / Resources



[Shenzhen Groundhog Software Technology BRAVEPRO Action Camera](#) [pdf] User Guide  
BRAVE4PRO, 2A26L-BRAVE4PRO, 2A26LBRAVE4PRO, BRAVEPRO Action Camera, Action  
Camera, Camera