

AKASO

# V50 Pro

ACTION CAMERA



USER MANUAL

V2.2

## CONTENTS

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What's in the Box	2	>>
Your V50 Pro	3	>>
Getting Started	5	>>
Overview of Modes	6	>>
Customizing Your V50 Pro	7	>>
Connecting to the App	13	>>
Playing Back Your Content	14	>>
Deleting Your Content	14	>>
Offloading Your Content	15	>>
Maintaining Your Camera	15	>>
Maximizing Battery Life	16	>>
Battery Storage and Handling	16	>>
Remote	17	>>
Mounting Your Camera	19	>>
Contact Us	21	>>



## WHAT'S IN THE BOX



AKASO V50 Pro  
x 1



Waterproof  
Housing x 1



Battery Charger  
x 1



Battery  
x 2



USB Cable  
x 1



Remote Control  
x 1



Remote Control  
Strap x 1



Protective  
Backdoor x 1



Camera Frame  
x 1



Spanner  
x 1



Mount 1  
x 1



Mount 2  
x 1



Mount 3  
x 1



Mount 4  
x 1



Mount 5  
x 1



Mount 6  
x 1



Mount 7  
x 1



Handle Bar /  
Pole Mount x 1



Helmet Mounts 1  
x 1



Helmet Mounts 2  
x 1



Bandages  
x 4



Tethers  
x 5



Lens Cloth  
x 1

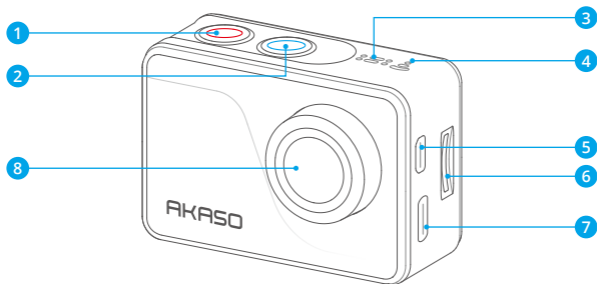


Double Sided  
Tape x 2



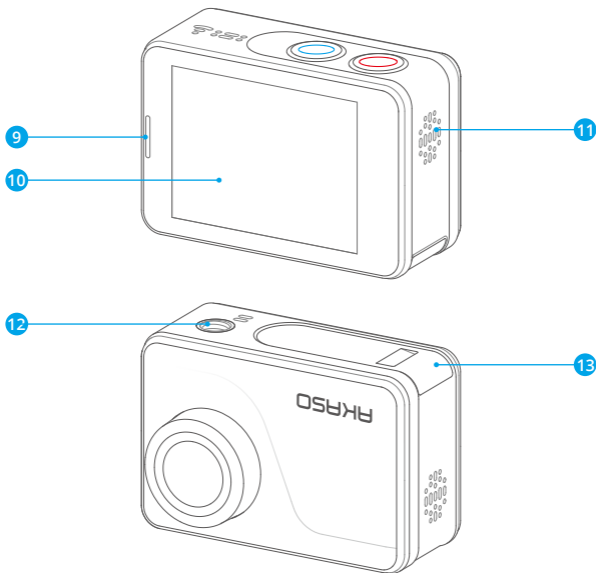
Quick Start  
Guide x 1





- ① Power / Mode Button
- ② Shutter / Select Button
- ③ MIC
- ④ Wifi Indicator
- ⑤ Micro HDMI Port
- ⑥ Micro SD Slot
- ⑦ Type-C Port / External Mic Port
- ⑧ Lens





- 9 Operating Indicator
- 10 Touch Screen
- 11 Speaker
- 12 Tripod Hole
- 13 Battery Cover

**Note:** Camera does not record sound when it is in the waterproof case.

## GETTING STARTED

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Welcome to your AKASO V50 Pro. To capture videos and photos, you need a memory card (sold separately) to start recording.

### Memory Card

Please use brand name memory cards that meet these requirements:

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

### Note:

1. Please format the memory card first in this camera before using. To keep your memory card in good condition, reformat it on a regular basis. Reformatting erases all your content, so please make sure to offload your photos and videos before reformatting.
2. FAT32 format memory card stops recording when the file size reaches 4GB, and starts to record again on a new file.

### Powering On and Off

Press and hold the Power button for 3 seconds. The camera beeps while the camera status light is on. When information appears on the display, your camera is on. When the camera is on, press and hold the Power button for 3 seconds to power off.

### Switching Mode

Turn on the camera, press the Mode button or swipe up from the bottom of the screen to access to the menu. Press the Shutter button or tap the icon to confirm.

### Turing On and Off Wifi

Turn on the camera, tap the shortcut icon or swipe down from the top of the screen, and tap the Wifi icon to turn on. The Wifi indicator will be on and the Wifi name and password will be shown on the screen. Press the Shutter button to turn off.



## OVERVIEW OF MODES

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**There are 8 modes:** Photo, Self-Timer, Burst Photo, Time Lapse Photo, Video, Slow Motion, Time Lapse Video, and Driving Mode.

### Photo Mode

In Photo mode, press the Shutter button to take photos.

### Self-Timer Mode

Self-Timer mode gives a delay between pressing the shutter release and the shutter's firing.

### Burst Photo Mode

In Burst Photo mode, several photographs are captured in quick succession, so it is perfect for capturing fast-moving activities.

### Time Lapse Photo Mode

Time Lapse Photo captures a series of photos at specified intervals. Use this mode to capture photos of any activity, then choose the best ones later.

### 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 video. Press the Shutter button again to stop recording video.

### Slow Motion Mode

In Slow Motion mode, press the Shutter button, the camera records slow-motion video.

### Time Lapse Video Mode

In Time Lapse Video mode, press the Shutter button, the camera records video from frames captured at specific intervals.

### Driving Mode

If you turn on Driving Mode and connect the camera with the car cigarette lighter, the camera will turn on automatically if you start your car and will turn off if you stop your car.



## CUSTOMIZING YOUR V50 PRO

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Turn on the camera, tap the shortcut icon or swipe down from the top of the screen, enter the Setting menu to customize your camera.

### Video Setting

**1. Resolution:** 4K30fps/2.7K30fps/1080P90fps/1080P60fps/1080P30fps/  
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 become warm and use more power.

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

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.

**3. Video Encode:** H.264/H.265

Default setting is H.264.

Video encoding is a process of converting a given video input into a digital format that is compatible with most types of Web players and mobile devices.

**4. Slow Motion:** 1080P90fps/720P120fps

Default setting is 1080P90fps.

**5. Time Lapse Interval:** 0.2 Sec/0.3 Sec/0.5 Sec/1 Sec/2 Sec/5 Sec/10 Sec/30 Sec/  
1 Min

Default setting is 0.5 Sec.

**6. Time-Lapse:** Close/5 Min/10 Min/15 Min/20 Min/30 Min/60 Min

Default setting is Close.

**7. Loop Recording Time:** Off/3 Min/5 Min/7 Min

Default setting is off.





Loop recording allows your camera to overwrite old files with new files. Once the memory card becomes full, the camera will delete the first video file to make room for the latest file. For example, if the setting for loop recording is "1 Minute", then the camera will create video clips of 1 minute in length, and a 1-minute clip will be deleted when the camera needs more memory.

**8. Audio Record:** On/Off

Default setting is On.

**9. Exposure Value:** -2/-1/0/+1/+2

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.

**10. White Balance:** Auto/Tungsten/Fluorescent/Daylight/Cloudy/Dawn

Default setting is Auto.

White Balance lets you adjust the color temperature of videos and photos to optimize for cool or warm lighting conditions.

**11. Meter:** Center/Average/Spot

Default setting is Average.

In photography, the metering mode refers to the way in which a camera determines exposure. Cameras generally allow the user to select between center, average or spot metering modes. The different metering modes allow the user to select the most appropriate one for use in a variety of lighting conditions.

**12. Scene:** Auto/Riding/Snow View

Default setting is Auto.

**13. Filter:** Natural/Black&White/Sepia/Retro/Gorgeous/Warm/Cold/Red/Green/Blue

Default setting is Natural.

## Photo Setting

**1. Resolution:** 20M/16M/14M/10M/8M/5M/2M

Default setting is 20M.

**2. Self-Timer:** 1 Sec/3 Sec/5 Sec/10 Sec/30 Sec

Default setting is 3 Sec.

A Self Timer gives a delay between pressing the shutter release and the shutter's firing. It is most commonly used to let photographers to take a photo of themselves.

**3. Time Lapse Photo:** 3 Sec/5 Sec/10 Sec/30 Sec/1 Min

Default setting is 3 Sec.

It captures a series of photos at specific intervals.

**4. Time-Lapse:** Close/5 Min/10 Min/15 Min/20 Min/30 Min/60 Min

Default setting is Close.

**5. Burst Photo:** 12M/10M/8M/5M/2M

Default setting is 12M.

**6. Burst Photo Tyoe:** 3shots/5shots/10shots

Default setting is 3shots/1s.

In burst mode, several photographs are captured in quick succession, so it is perfect for capturing fast-moving activities.

**7. Scene:** Auto/Light Painting

Default setting is Auto.

**8. Output Format:** JPEG/JPEG+DNG

Default setting is JPEG.

DNG file extension refers to a raw Image format. The image data is uncompressed and kept in a lossless state. The camera does not support Distortion Calibration and DNG format at the resolution of 20MP.

**9. Exposure Value:** -2/-1/0/+1/+2

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.

**10. Exposure Time:** Off/1 Sec/2 Sec/5 Sec/8 Sec/30 Sec/60 Sec

Default setting is Off.

**11. White Balance:** Auto/Tungsten/Fluorescent/Daylight/Cloudy/Dawn

Default setting is Auto.

White Balance lets you adjust the color temperature of videos and photos to optimize for cool or warm lighting conditions.

**12. Meter:** Center/Average/Spot

Default setting is Average.

The metering mode refers to the way in which a camera determines exposure.

**13. Sharpness:** Strong/Normal/Soft

Default setting is Normal.

**14. Filter:** Natural/Black&White/Sepia/Retro/Gorgeous/Warm/Code/Red/Green/Blue

Default setting is Natural.

**15. Photo Quality:** Fine/Normal/Economy

Default setting is Fine.

## Camera Setting

**1. Sounds:** Volume/Key Tone/Touch Tone/Boot Tone

You can turn on or off these sound effects and adjust the volume of the camera in this setting.

**2. Distortion Calibration:** ON/OFF

Default setting is OFF.

Turn on Distortion Calibration, it can correct the image distortion.

**Note:** In video mode, the Distortion Calibration only works when Image Stabilization is enabled at the same time, and the opening angle of Distortion Calibration in video mode is slightly smaller than that in photo mode.

**3. Angle:** 170°/140°/110°/70°

Default setting is 170°.

The angle refers to how much of the scene (measured in degrees) can be captured through the camera lens. 170° angle captures the largest amount of the scene, while 70° angle captures the least.

#### 4. Diving Mode: On/Off

Default setting is Off.

Turn on Diving Mode, it can compensate for the lack of red light in underwater scenes. Diving Mode is designed to be used in tropical and blue water, optimized for use between 10 and 80 feet.

#### 5. Remote Control: On/Off

Default setting is On.

Turn on this setting to allow the remote control of your camera.

#### 6. Wind Noise Down: On/Off

Default setting is Off.

Turn on Wind Noise Down, it can lower the noise to an acceptable level.

#### 7. Auto Low Light: On/Off

Default setting is Off.

Auto Low Light mode will automatically adjust settings according to lighting conditions to achieve the best low light performance. Even if you move back and forth between bright and dark environments, you do not need to manually adjust the camera settings.

#### 8. ISO: Auto/100/200/400/800/1600

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.

#### 9. WDR: On/Off

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 the photos will be 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.

#### 10. Language: English/Deutsch/Français/Italiano/Español/日本語/简体中文/繁体中文

Default setting is English.

**11. Date Time:** Date Format/Set Date/Set Time

You can adjust Date and Time in this setting.

**12. Date Stamp:** Off/Date&Time/Date

Default setting is Date.

**13. Auto Power Off:** Off/1 Min/3 Min/5 Min/10 Min

Default setting is 3 Min.

Auto Power Off helps to power off camera after a period of inactivity to save battery life.

**14. Screen Saver:** Off/1 Min/3 Min/5 Min

Default setting is 1 Min.

Screen saver helps to turn off the display after a period of inactivity to save battery life. To turn on the display again, press any button or tap the screen on the camera.

**15. Power Frequency:** 50Hz/60Hz

Default setting is 50Hz.

**16. Format Card:** Cancel/Confirm

Default setting is Cancel.

To keep your memory card in good condition, reformat it on a regular basis.

Reformatting erases all your content, so be sure to offload your photos and videos first.

**17. Reset:** Cancel/Confirm

Default setting is Cancel.

This option resets all settings to their default values.

**18. Memory Card Capacity**

You can check the usage status of memory card.

**19. About:** Brand/Model/Software version

You can check the system information of your camera under this menu.

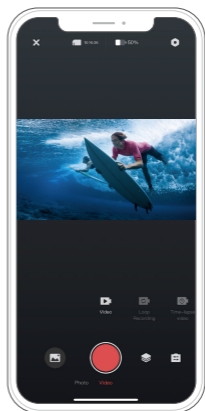
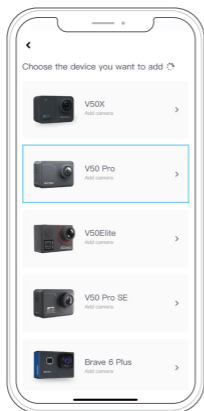
## CONNECTING TO THE APP

Please download and install the **AKASO GO** app on the App Store or Google Play first. The **AKASO GO** app lets you control your camera remotely using a smartphone or tablet. Features include camera control, live preview, playback, download and settings.

1. Turn on the camera, tap the shortcut icon or swipe down from the top of the screen, and choose Wifi icon to turn on. The Wifi name and password are shown on the camera screen.
2. Turn on your phone's Wifi to enter the Wifi settings page, find the Wifi SSID in the list and tap on it, then enter the password 1234567890 to connect.

**Warm tip:** The camera Wifi will say "No Internet Connection" after being connected, but you can ignore it and continue the app connection process.

3. Open the AKASO GO app, tap "Device"→"Add Device", then select "V50 Pro".
4. Tick "The above operation has been confirmed", and tap "Live Preview", your camera will be connected to the AKASO GO app.



## PLAYING BACK YOUR CONTENT

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

**Note:** To play back your videos 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.

### Viewing Files on Your V50 Pro

Turn on the camera, swipe down from the top of the screen, choose Album icon to enter the Playback Mode.

In Playback Mode, swipe your finger across the screen to scroll through video or photo files.

## DELETING YOUR CONTENT

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### Deleting Files on Your V50 Pro

1. Enter Playback mode. If your memory card contains a lot of content, it might take a minute for it to load.
2. Swipe your finger across the screen to scroll through video or photo files.
3. Tap the Delete icon on the screen → select the files you want to delete → tap the delete icon again → Confirm to delete the selected files or all files.
4. To exit Playback mode, tap Cancel and Return button.

### Deleting Files on AKASO app

1. Open the AKASO GO app. Connect the camera with the app.
2. Tap Playback icon to see all the videos and photos.
3. Select the photo or video you want to delete and then tap the More icon at the right upper corner, and choose Delete.



## OFFLOADING YOUR CONTENT

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### Offloading Your Content to A Computer

To offload files to a computer, you need a card reader (sold separately). Insert a memory card into your card reader, then connect the card reader to the computer via a USB port. You can then transfer files to your computer or delete selected files by using file explorer.

### Offloading Your Content to Smartphone

1. Open the **AKASO GO** app. Connect the camera with the app.
2. Tap Playback icon to see all the videos and photos.
3. Select the photo or video you want to download and then tap the More icon at the right upper corner, and choose Download.

#### Note:

1. If you cannot download videos or photos to your iPhone, please enter Settings → Privacy→Photos, find "AKASO GO" and select "All photos".
2. iPhone does not allow you to download 4K or 2.7K videos via the app. Please transfer 4K or 2.7K videos via a card reader.

## MAINTAINING YOUR CAMERA

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Please 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 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 temperature and strong sunshine to avoid being damaged.





## MAXIMIZING BATTERY LIFE

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If the battery reaches 0% while recording, the camera will save the file and power 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.

## BATTERY STORAGE AND HANDLING

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The camera contains sensitive components, including the battery. Avoid exposing your camera to very cold or 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.

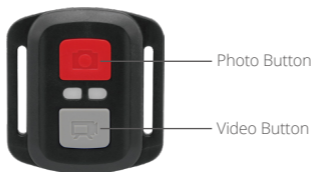
- Do not dry the camera or battery with an external heat source such as a microwave oven or hair dryer. Damage to the camera or battery caused by contact with liquid inside the camera is not covered under the warranty.
- Do not store your battery with metal objects, such as coins, keys or necklaces. If the battery terminals contact with metal objects, this may cause a fire.
- Do not make any unauthorized alterations to the camera. Doing so may compromise safety, regulatory compliance, 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 on the camera. Do not use the camera or the battery if it has been damaged—for example, if cracked, punctured or harmed by water. Disassembling or puncturing the battery can cause an explosion or fire.



## REMOTE

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Splashproof only, not waterproof

### VIDEO

To record a video, verify the camera is in Video mode.

#### To start recording:

Press the gray Video button. The camera beeps and the camera light flashes while recording.

#### To stop recording:

Press the gray Video button again. The camera beeps and the camera status light stops flashing.

### PHOTO

To capture a photo, verify the camera is in Photo mode.

#### To take a photo:

Press the red Photo button. The camera will emit a camera shutter sound.



## CR2032 BATTERY REPLACEMENT FOR REMOTE

1. Remove the 4 screws on the back cover of the remote with a 1.8mm Phillips tip screwdriver.



2. Remove another 4 screws on PCB board.



3. Lift the PCB board and slide out the battery, as shown in the picture.

**Note:** Do NOT rotate the PCB board to avoid reversing the camera and video button functions.



4. Install the new battery, keeping the "+" pole facing up.
5. Install all 4 screws back onto the PCB board.



6. Install all 4 screws back into the cover.

## MOUNTING YOUR CAMERA

Attach your camera to helmets, gear and equipment.







## CONTACT US

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For any inquiries with AKASO products, please feel free to contact us, we will respond within 24 hours.

