AKASO

V50 ELITE
A C T I O N   C A M E R A

4K
60FPS

V50 **Elite**

USER MANUAL

V39

Contents

What's in the Box

AKASO V50 Elite x 1	Waterproof Housing x 1	Battery Charger x 1	Battery x 2	USB Cable x 1
Remote Control x 1	Protective Backdoor x 1	Bandages x 4	Helmet Mount 1 x 1	Helmet Mount 2 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	Spanner x 1	Tethers x 5
Lens Cloth x 1	Double Sided Tape x 2	Quick Start Guide x 1		

Camera Specifications

Model	V50 Elite
Master	V39A
LCD	2.0-inch TFT LCD Display 320x240
Video/Photo Format	MOV/JPG
Battery life	Two 1050mAH batteries are included. Works to record 4K videos for 50 minutes when fully charged.
Lens	6G
Sensor	OS12D40
Remote Control	Support
Voice Control	Support
External Microphone	Support
Dimensions	61×42×33mm

Important Messages

Congratulations on your new AKASO Action Camera V50 Elite! You must be excited to use your AKASO V50 Elite. However, please spend time reading this manual before using it. You need to get to know all the features now so as to get the most out of it.

CAUTIONS!

1. This is a high-precision product. Do not drop.

2. Do not expose the item to strong magnetic fields, such as electric motors, magnets and machinery rife with strong radio waves.

3. Never leave the item in high-temperature areas. Electronics and optics can be damaged under prolonged exposure to heat.

4. Although this camera is waterproof without needing an additional housing, we recommend you to install it into the waterproof case properly before capturing underwater adventures.

5. Avoid extended periods of battery charging. Keep it away from children and pets while charging to avoid accidents.

Warm Tip: If your camera does not work normally or encounters any photo or video quality issues, please feel free to refer to FAQ in this manual or contact our support for help by sending emails to our official email address cs@akasotech.com.
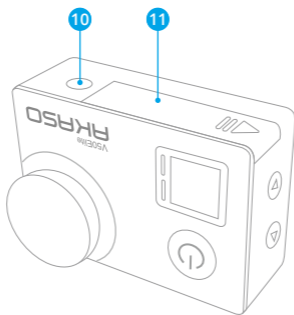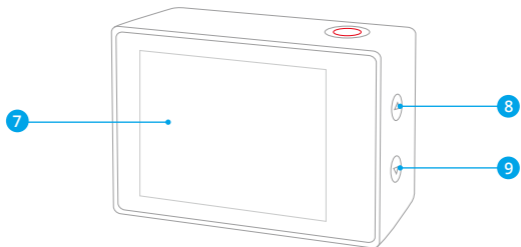
Your V50 Elite
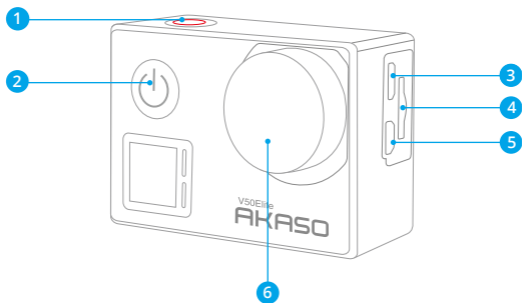
1. **Shutter / Wifi / Select Button**

2. **Power / Mode / Exit Button**

3. **Micro USB Port**

4. **Memory Card Slot**

5. **Micro HDMI Port**

6. **Lens**

7 **Touch Screen**

8 **Up Button**

9 **Down Button**

10 **Tripod Hole**

11 **Battery Cover**

Note: The camera does not record sounds when it is in the waterproof case.

Getting Started

Welcome to your AKASO V50 Elite. To capture video and photos, you need a memory card (sold separately).

Memory Cards

Use brand name memory cards that meet these requirements:
• microSD, microSDHC, or microSDXC
• U3
• 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 of your content, so be sure to offload your photos and videos first.

2. FAT32 format memory card stops recording when the storage of each file is over 4GB and starts to record again on a new file.

Powering on/off

To Power on:

Press and hold the Mode button for three seconds. The camera beeps while the camera status light is on. When information appears on the display or the camera status screen, your camera is on.

To Power off:

Press and hold the Mode button for three seconds. The camera beeps while the camera status light is off.

Switching Mode

To Switch Mode:

Turn on the camera, swipe from left to right to enter the mode menu or press Mode button to switch mode.

To Exit Mode:

Press the Mode button to exit mode.

Turning on/off Wifi

To turn on Wifi:

Turn on your camera, in Video or Photo Mode, long press the Wifi button to turn on Wifi. You can also swipe the screen from left to right to enter the mode menu to turn on Wifi.
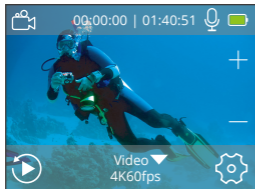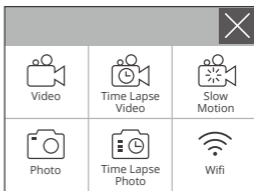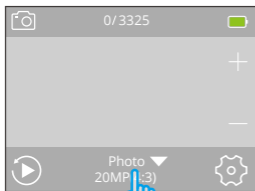
To turn off Wifi:

Long press the Wifi button to turn off Wifi.

Overview of Modes

There are 6 modes: Video, Time Lapse Video, Slow Motion, Photo, Time Lapse Photo and Wifi.

When the camera is on, tap the mode at the bottom of the camera screen to enter the mode menu.
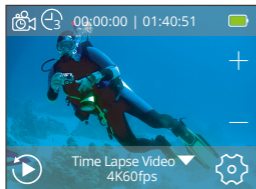

Video Mode

Video Mode is the default mode when you turn on the camera.

In Video Mode, press the Shutter button, the camera starts recording videos. Press the Shutter button to stop recording.

Time Lapse Video Mode

In Time Lapse Video Mode, press the Shutter button, the camera takes videos at 1S/3S/5S/10S/30S/1 Min intervals.
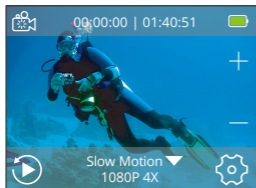
Slow Motion Mode

In Slow Motion Mode, Press the Shutter button, the camera takes a slow motion video.
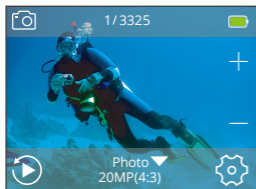
Photo Mode

Press Mode button once to switch to Photo Mode after you turn on camera.

In Photo Mode, press Shutter button, the camera takes a photo.
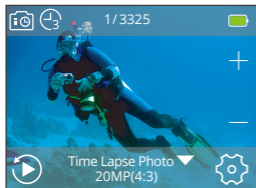
Time Lapse Photo Mode

In Time Lapse Photo Mode, press Shutter button, the camera takes a serial of photos at 3S /5S /10S /30S /1 Min intervals.

SSID:
AKASO_V50Elite_*_****

PWD:
12345679890

Waiting for Wifi Connection...
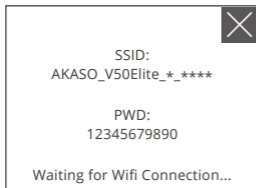
Wifi Mode

Long press the Wifi button or tap the Wifi icon to turn on Wifi, the camera will enter Wifi mode.

Customizing Your V50 Elite

Video Settings

1. Video Resolution

4K 60fps, 4K 30fps, 2.7K 60fps, 2.7K 30fps, 1080P 120fps, 1080P 60fps, 1080P 30fps, 720P 240fps, 720P 120fps, 720P 60fps (Default setting is 4K 60fps)

Note: When capturing videos 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 for motion during capture. The result is smoother footage, especially in activities with relatively small but fast motion including cycling, motorcycling, and handheld uses.

Note:

1. Image Stabilization is disabled when you set the video resolution to 4K 60fps, 2.7K 60fps , 1080P 120fps or 720P 240fps.

2. For more features that do not work with Image Stabilization, please refer to the form on page 18.

3. Loop Recording

Unlimited/2 Min/3 Min/5 Min (Default setting is Unlimited)

Using Loop Recording, you can continuously record video, but save only the moments that you want. 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 records 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.

Note: Loop Recording is disabled when Timelapse Video, Slow Motion Movie and Fast Motion Movie are enabled.

4. Time Lapse Interval

Off/1S /3S /5S /10S /30S /1 Min (Default setting is Off)

Time Lapse Video creates videos from frames captured at specific intervals.

This option sets how often your camera takes a shot in Time Lapse Video mode. Select 3 seconds means recording 3 seconds to get one frame per second. For example, if you select 4K 30fps and 3 seconds, you need to record 90 seconds, then you can get a one-second 4K 30fps video.

Note: Time Lapse Video is recorded without audio. It will be disabled when Image Stabilization and Slow Motion Movie are turned on.

5. Time Lapse Duration

Unlimited/5 Min/10 Min/15 Min/20 Min/30 Min/60 Min (Default setting is Unlimited)

Note: If you want to set Time Lapse Duration, please turn on Time Lapse Interval first.

6. Slow Motion Movie

On/Off (Default setting is Off)

Slow motion is an effect in film-making whereby time appears to be slowed down.

Note: Slow Motion Movie will be disabled when Loop Recording and Image Stabilization are enabled. It will not work when the camera is on the Time Lapse Video mode or when you set Video Resolution to 4K60fps, 4K30fps, 2.7K60fps, 2.7K30fps, 1080P60fps, 1080P30fps and 720P60fps.

7. Fast Motion Movie

Off/2x/4x/6x/10x/15x (Default setting is Off)

When this feature is enabled, the video will play at the faster speed on the cmaera screen according to the option you select.

Note: Fast Motion Movie will be disabled when Drive Mode, Image Stabilization and Loop Recording are turned on.

8. Wind Noise Reduction

On/Off (Default setting is Off)

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

9. Microphone

Internal/External (Default setting is Internal)

10. Angle

Wide/Medium/Narrow (Default setting is Wide)

The angle refers to how much of the scene can be captured through the camera lens.Wide angle captures the largest amount of the scene, while Narrow angle captures the least.

Note: Medium and Narrow are not optional when Image Stabilization and Zoom are on.

11. Sound Record

On/Off (Default setting is On)

Turn off Sound Record, the camera does not record audio when you record videos.

12. 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.

Note: Auto Low Light is disabled when you enable Image Stabilization.

13. Drive Mode

On/Off (Default setting is Off)

To use your V50 Elite as a dash cam, start your car, enable Drive mode after turning on your camera, and then plug the camera into the car cigarette lighter with a car charger. Your camera will turn on and start recording automatically.

Note: Drive Mode will be disabled when Special Effect and Fast Motion Movie are turned on.

14. Video Scene Mode

Manual, Water, Riding, Winter, Night (Default setting is Manual)

Photo Settings

1. Photo Resolution

20MP/16MP/12MP/10MP/8MP/5MP (Default setting is 20MP)

Aspect ratio 4:3 and 16:9 are optional for each resolution.

2. Angle

Wide/Medium/Narrow (Default setting is Wide)

The angle refers to how much of the scene can be captured through the camera lens. Wide angle captures the largest amount of the scene, while Narrow angle captures the least.

Note: Medium and Narrow are not optional when Image Stabilization and Zoom are on.

3. ISO

Auto/100/200/400/800/1600/3200 (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.

4. Time Lapse Interval

Unlimited/3S/5S/10S/30S/1 Min (Default setting is Unlimited)

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.

Note: Time Lapse Photo mode is not available when Long Exposure and Delay Timer are turned on.

5. Time Lapse Duration

Unlimited/5 Min/10 Min/15 Min/20 Min/30 Min/60 Min (Default setting is Unlimited)

Note: If you want to set Time Lapse Duration, please turn on Time Lapse Interval first.

6. Night Lapse

On/Off (Default setting is Off)

Night Lapse is made to capture time lapse videos in dark and low-light environments. It automatically adjusts the shutter speed to let in more light and picks the interval that will give you the best results.

7. Burst Photo

Off, 3 shots, 7 shots, 15 shots , 30 shots (Default setting is Off)

Burst Photo captures up to 30 photos in 8 seconds, so it is perfect for capturing fast moving activities.

Note: Burst Photo will be disabled when Long Exposure is turned on.

8. Delay Timer

Off/Delay 3s/Delay 5s/Delay 10s/Delay 20s (Default setting is Off)

A delay 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 (often with family).

Note: Delay Timer will be disabled when Long Exposure and Time Lapse Photo Mode are turned on.

9. Long Exposure

Off/1S/ 2S/ 5S/ 8S/ 30S/ 1 Min (Default setting is Off)

Long exposures are easiest to accomplish in low-light conditions, but can be done in brighter light using neutral density filters or specially designed cameras.

Note: Long Exposure is disabled when Burst Photo, Delay Timer and Time Lapse Photo are turned on.

10 . DNG

On/Off (Default setting is Off)

DNG means Digital Negative. It's a lossless raw image format that protects image data from compression and loss. DNG determines your photo's output format.

Note: DNG does not work for photos taken with 4:3 aspect ratio resolutions. When DNG is enabled, the photo's shooting angle will be slightly smaller than that with 16:9 aspect ratio resolutions.

11. Photo Scene Mode

Manual, Indoor, Outdoor, Portrait, Landscape, Night (Default setting is Manual)

Camera Settings

1. Sounds

Shutter: On/Off (Default setting is on)

Boot-up: On/Off (Default setting is on)

Beep: On/Off (Default setting is on)

Volume: 0/1/2/3 (Default setting is 2)

You can turn on or off the shutter, boot-up, beep sounds.

2. Distortion Calibration

On/Off (Default setting is Off)

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

Note: Distortion Calibration is disabled when Image Stabilization is turned on.

3. Special Effect

None, Black&White, Sepia, Vivid, Natural, Negative, Warm, Cold, Red, Green, Blue (Default setting is None)

Note: Special Effect will be disabled when Diving Mode and White Balance are turned on.

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.

Note: Diving Mode will be disabled when Special Effect is turned on.

5. Date Stamp

Off/Date/Date&Time (Default setting is Off)

If you select Date&Time, this camera adds date and time to the video or photos you take.

Note: Date Stamp is disabled when Image Stabilization and DNG are turned on.

6. Date & Time

Default setting is MM/DD/YY HH/MM/SS

7. Screen Saver

Off/ 30S/ 1 Min/ 2 Min (Default setting is 1 Min)

Turns off the LCD display after a period of inactivity to save battery life. To turn on the LCD display again, press any button on the camera.

8. Auto Power Off

Off/1 Min./2 Min. (Default setting is 2 Min)

When Auto Power Off is enabled, your V50 Elite will be powered off automatically after a period of inactivity to save battery life.

9. Power-on Auto Record

On/Off (Default setting is Off)

If you turn on Power-on Auto Record, the camera records video automatically after you turn on V50 Elite.

10. Power Frequency

50Hz/60Hz (Default setting is 50Hz)

11. White Balance

Auto/Daylight/Cloudy/Tungsten Light/White Fluorescent (Default setting is Auto)

White Balance lets you adjust the color temperature of videos and photos to optimize for cool or warm lighting conditions. When you change this setting, the LCD display immediately shows you the effect on your image.

Note: White Balance will be disabled when Special Effect is turned on.

12. Exposure

-2.0/-1.0/+0.0/+1.0/+2.0 (Default setting is +0.0)

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 LCD 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.

13. Language

English, 日本語 , Deutsch, Italiano, Español, Français, 简体中文 , 繁體中文 (Default setting is English)

You can choose the system language for your V50 Elite.

14. Format Card

Yes/No (Default setting is No)

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, please enter the camera settings, then press the Up or Down button to scroll through the options to locate Format Card option, press the shutter button → Up button → Shutter button.

15. System
Default Setting: Yes/No
System Info: V50 Elite: YYYYMMDD-V*.*
Card Info: Capacity/Free Space
Default Setting option resets all settings to their default values.

In the System option, you can check the model, version and updated time of your V50 Elite. The card Info option allows you to check the capacity and free space of your memory card.

Warm Tip: Some functions cannot be used at the same time. Please refer to the information below.

Image Stabilization	4K 60fps, 2.7K 60fps, 1080P 120fps, 720P 240fps, 720P 120fps, 720P 60fps
Image Stabilization	Slow Motion Movie, Fast Motion Movie
Image Stabilization	Angle: Middle & Narrow, Zoom
Image Stabilization	Time Lapse Video, Distortion Calibration
Image Stabilization	Date Stamp, Auto Low Light
Time Lapse Video	Slow Motion Movie, Image Stabilization
Special Effect	Dive Mode, White Balance
Loop Recording	Time Lapse Video, Slow Motion Movie, Fast Motion Movie
Long Exposure	Burst Photo, Delay Timer, Time Lapse Photo
Zoom	Image Stabilization, Angle: Middle & Narrow
DNG	Date Stamp
Fast Motion Movie	Drive Mode, Image Stabilization, Loop Recording
Time Lapse Photo	Delay Timer, Long Exposure

Controlling Your V50 Elite with Your Voice

The remote control allows you to capture remotely and control your camera with your voice. When the camera is turned on, you can control your camera to take photos or record videos with the remote. While using the voice control feature, please keep within a 10-centimeter distance from the remote's microphone and issue voice commands in a quite environment for a better result.

Using Voice Control

You can also control your V50 Elite with your voice by issuing specific commands to the remote's microphone. To ensure the voice control feature, please keep within a 20-centimeter distance from the microphone. Please follow the instructions below to use the voice control feature.

1. When the camera and the remote are on, press the remote's voice control button to turn on the voice control feature. The blue indicator light will stay on for 1 second and go out for 2 seconds alternatively.

   Warm tip: Long press the voice control button, the voice control feature will remain on.

2. Issue voice commands (see list below) to the remote's microphone.

3. Long press the voice control button to turn off the voice control feature.

Notes:

1. The voice control feature will turn off when the camera powers off. It will also turn off automatically if no voice commands are issued within 3 minutes.

2. Voice Control performance may be impacted by distance, wind, and noisy conditions. Keep the product clean and clear of debris.

3. Voice Control works only when you utter English commands. If you are recording videos, you must stop recording before issuing a new command.

		Action Command	Description
		Action Start Video	Starts capturing video
		Action Stop Shooting	Stops capturing video
		Action Photo	Captures a single photo
		Camera Turn Off	Powers off the camera

Connecting to the AKASO GO App

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

1. Turn on the camera, long press the Wifi button to turn on Wifi. The Wifi SSID and password will be displayed on the camera screen.

2. Turn on your phone's Wifi and enter the Wifi settings page, find the Wifi SSID in the list and click on it, then enter the password 1234567890 to connect.

   Warm tip: The camera Wifi will give a "No Internet Connection" notice 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 Elite".

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

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.

Viewing Videos or Photos on Your V50 Elite

1. Turn on your camera.

2. Tap the Playback icon ▶ in the bottom left corner of the camera screen to enter the playback mode.

3. Tap the video file icon 🎥 or photo file icon 🖼 .

4. Tap the video or photo file in full-screen view to play it back.

5. To exit video or photo files, tap the return icon ↩ .

Note: If your memory card contains a lot of content, it might take a minute to load them.
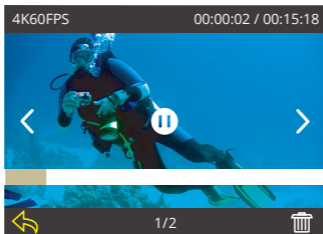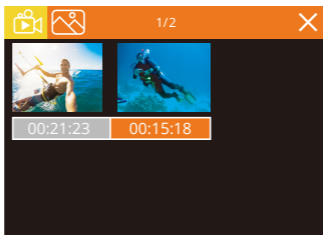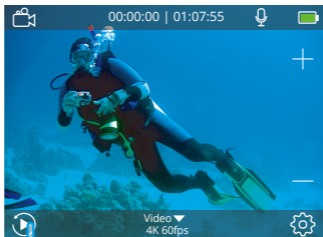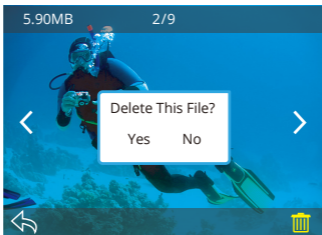
Deleting Videos or Photos on Your V50 Elite

1. Enter the playback mode.

2. Tap video file icon 📹 or photo file icon 🖼 .

3. Tap 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.

Note: You cannot delete video or photo files when they are in full-screen view.

Offloading Your Content

Offloading Your Content to A Computer

To play back your videos and photos on a computer, you must first transfer these files to the computer. Transferring also frees up space on your memory card for new content. To download files to a computer using a card reader (sold separately), please 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 Your Smartphone

1. Open the AKASO GO app. Connect the camera to the app.

2. Tap the Playback icon to see all the videos and photos.

3. Tap the Select icon at the upper right corner, choose the photo or video you want to download, then tap the Download icon at the bottom left corner to download. Waiting for the completion of download progress, the video or photo will be downloaded to your phone's photo album.

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.

Adjusting the Zoom Level

The Zoom function lets you adjust how close or far away the subject appears in your video or photo. The default is no zoom. Zoom function is available in Video mode and Photo mode. V50 Elite can zoom up to 8X.

1. Turn on V50 Elite.

2. Press Up or Down button to adjust the zoom level.

Note: You can not zoom when Image Stabilization is turned on or when you set Angle to Medium or Narrow.

Reformatting Your Memory Card

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.

1. Turn on your camera and enter the camera settings.

2. Scroll down to locate the Format Card option.

3. Tap "Yes" . The screen shows "Busy...Please wait" . Then you format your memory card successfully.

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 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

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.

Battery Storage and Handling

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 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 come in 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

Please use the remote in a quiet environment and keep within a 7-meter distance away from the camera for better results. When the camera is turned on, it will be connected to the remote directly. You will be able to control your camera to take photos or record videos with the remote.

Voice Control Button

Photo Button

Video Button

Micro USB Port

Splashproof only, not waterproof

Voice Control Button

Press the Voice Control button to turn on the voice control feature.

Video Button

To record a video, verify the camera is in Video mode. Press the Video button to start or stop recording.

Photo Button

To take a photo, verify the camera is in Photo mode. Press the Photo button to start taking photos.

Note: The photo or video indicator flashes green each time you press the Photo or Video button to capture.

Charging

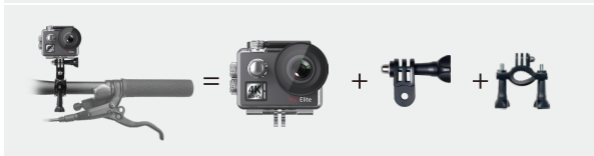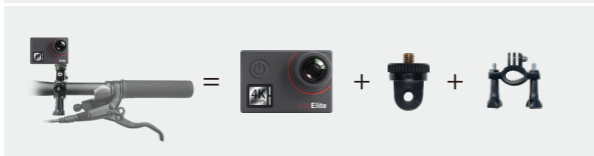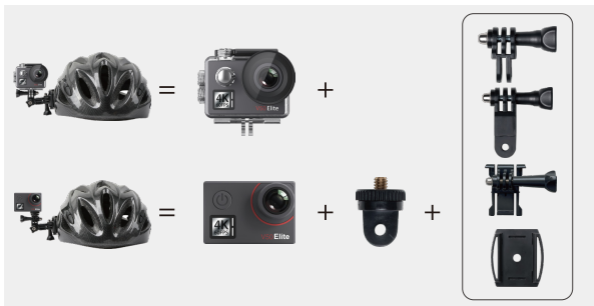To charge the remote, plug it in with the included USB cable.

Duration

The built-in lithium battery can be fully charged within 90 minutes, working for up to 23 hours.

Mounting Your Camera

Attach your camera to helmets, gear and equipment.

Contact Us

📞 **(888) 466-9222 (US)** ✉️ **cs@akasotech.com** 🌐 **www.akasotech.com**

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