USER MANUAL
V50 Elite Action Camera

AKASO
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1. Shutter / WiFi / Select Button
2. Power / Mode / Exit Button
3. MicroSD Slot
4. Micro USB Port
5. Micro HDMI Port
6. Lens
7. Screen
8. Up Button
9. Down Button
10. Tripod Hole
11. Battery Door

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

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

MICRO SD CARDS

Use brand name memory cards that meet these requirements:
- micro SD, micro SDHC, or micro SDXC
- UHS-3 rating only
- Capacity up to 64GB

Note:
1. Please format the micro SD card first in this camera before using. To keep your micro SD 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 and exFAT format Micro SD 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:
Press the Mode button after you turn on the camera, you can switch the mode.

To Exit Mode:
Press the Mode button to exit mode.

TURNING ON / OFF Wi-Fi

To turn on Wi-Fi
Turn on camera, in Video or Photo Mode press and hold Wi-Fi button for three seconds to turn on Wi-Fi.

To turn off Wi-Fi
Press and hold Wi-Fi button for three seconds to turn off Wi-Fi.

OVERVIEW OF MODES

There are 7 modes: Video, Photo, Video Playback, Photo Playback, Video Setting, Photo Setting and Camera Setting.

VIDEO MODE

Video Mode is the default mode when you turn on the camera. In Video Mode, press Shutter button, the camera starts recording video. Press Shutter button to stop recording 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.

PHOTO SETTING MODE
Press Mode button several times to switch to Photo Setting Mode.

VIDEO SETTING MODE
Press Mode button several times to switch to Video Setting Mode.

PLAYBACK MODE
Press Mode button several times to switch to Playback Mode. In Playback Mode, press the Up / Down button to playback video or photo files.

CAMERA SETTING MODE
Press Mode button several times to switch to Camera Setting Mode.

VideoSetting

- Video Resolution
- Video Encoder
- Image Stabilization
- Loop Recording

PhotoSetting

- Photo Resolution
- ISO
- Time Lapse Interval
- Time Lapse Duration

CameraSetting

- Sounds
- BT
- Distortion Calibration
- Date Stamp
CUSTOMIZING YOUR V50 ELITE

VIDEO SETTING

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 / 30FPS.
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. Video Encoder: H.264 / H.265
Default setting is H.264.
• A video codec is an electronic circuit or software that compresses or decompresses digital video. It converts uncompressed video to a compressed format or vice versa.

• According to multiple studies, HEVC, High Efficiency Video Coding (H.265) should deliver up to 50% better compression than H.264 in video on demand (VOD) applications, which means better quality at half the bit rate. In live encoding, which obviously has to be performed in real time, the initial expectations are a 35% bandwidth reduction at similar quality levels. Alternatively, HEVC can also enable larger resolution movies, whether 2K or 4K.

• In addition, encoding existing SD and HD content with HEVC rather than H.264 will add to cost savings and / or the ability to stream higher quality video to lower bit rate connections.

3. 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: Image Stabilization is disabled when you select 4K / 60FPS, 2.7K / 60FPS, 1080P / 120FPS or all 720P video resolution.

4. 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 micro SD card is full, the new files will cover the old one if loop recording is on.
Note: Loop Recording is disabled when Image Stabilization is on.

5. Time Lapse Interval: Off / 1 Sec / 3 Sec / 5 Sec / 10 Sec / 30 Sec / 1 Min
Default setting is Off.
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.
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 1 second video for 4K / 30FPS.
Note: Time Lapse Video is disabled when Image Stabilization is on.

6. 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.

7. 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: Please select 1080P 120FPS, 720P 240FPS or 720P 120FPS when you want to record slow motion movie.

8. Fast Motion Movie: Off / 2x / 4x / 6x / 10x / 15x
Default setting is Off.
Action that appears to move faster than normal on the screen, accomplished by filming the action at less than normal speed in the camera and then projecting it at normal speed.
9. Wind Noise Reduction: On / Off
Default setting is Off.
Turn on Wind Noise Reduction, it can lower the noise to an acceptable level.

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 is disabled when Image Stabilization is on.

11. Sound Record: On / Off
Default setting is On.
Turn off Sound Record, the camera does not record audio when you record video.

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 select 4K / 60FPS, 4K / 30FPS, 2.7K / 60FPS or 2.7K / 30FPS video resolution.

13. Drive Mode: On / Off
Default setting is Off.
If you turn on Drive Mode and connect camera with car cigarette lighter, the camera will turn on automatically if you start your car and will turn off if you stop your car.

**PHOTO SETTING**

1. Photo Resolution: 20MP / 16MP / 12MP / 10MP / 8MP / 5MP
Default setting is 20M.

2. 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.

3. Time Lapse Interval: Unlimited / 3 Sec / 5 Sec / 10 Sec / 30 Sec / 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 is disabled when Burst Photo is on.

4. 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.

5. Night Lapse: On / Off
Default setting is Off.
Captures a series of photos at specific intervals and exposure times. Use Night Lapse in low light environments, such as when capturing the night sky over a period of time.

6. Burst Photo: Off, 3 shots / 1s, 7 shots / 2s, 15 shots / 4s, 30 shots / 8s
Default setting is Off.
Burst captures up to 30 photos in 8 seconds, so it is perfect for capturing fast-moving activities.

7. 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).

8. Long Exposure: Off / 1 Sec / 2 Sec / 5 Sec / 8 Sec / 30 Sec / 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 is on.
CAMERA SETTING

1. Sounds
Shutter: On / Off
Boot-up: On / Off
Beep: On / Off
Volume: 0 / 1 / 2 / 3 Default setting is 2.
Default setting is on.
You can turn on or off the shutter, boot-up, beep sounds.

2. BT: On / Off (Remote)
Default setting is Off.
You can also hold and press Down button for three seconds to turn on BT.

3. Distortion Calibration: On / Off
Default setting is Off.
Turn on Distortion Calibration, it can correct the image distortion.
Note: Distortion Calibration is disabled when you select 4K 60FPS video resolution.

4. 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.

5. Date & Time: 06 / 01 / 2018 01:03 MM / DD / YY
Default setting is MM / DD / YY HH / MM

6. Screen Saver: Off / 30 Sec / 1 Min / 2 Min
Default setting is 1 Min.
Turns off the display after a period of inactivity to save battery life. To turn on the display again, press any button on the camera.

7. Auto Power Off: Off / 1 Min. / 2 Min.
Default setting is 2 Min.
Powers off your V50 Elite after a period of inactivity to save battery life.

8. 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.

9. Power Frequency: 50Hz / 60Hz
Default setting is 50Hz.

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 display immediately shows you the effect on your image.

11. 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 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.

12. Reset Wi-Fi Setting: Yes / No
Default setting is No.
This option can erase the Wi-Fi data of V50 Elite.

13. Language: English / Portuguese / Japanese / German / Italian / Spanish / French
Default setting is English.
14. Format Card: Yes / No
Default setting is No.

- To keep your micro SD card in good condition, reformat it on a regular basis. Reformating erases all of your content, so be sure to offload your photos and videos first.
- To reformat your card, please enter Camera Setting, then press Up or Down button to scroll through the options to locate ‘Format Card’ option, press shutter Button - Up Button - Shutter Button.

15. System
Default Setting: Yes / No
System Info: V50 Elite: YYYYMMDD-V1
Card Info
Default Setting option resets all settings to their default values.
System Info option let you check the model, version and updated time of your V50 Elite.
Card Info option let you check the capacity and free space of your micro SD card.

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

<table>
<thead>
<tr>
<th>Image Stabilization</th>
<th>4K / 60FPS, 2.7K / 60FPS, 1080P / 120FPS, 720P / 240FPS, 720P / 120FPS, 720P / 60FPS</th>
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<td>Image Stabilization</td>
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<td>Image Stabilization</td>
<td>Angle: Middle, Narrow</td>
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<td>Time Lapse Photo</td>
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<td>Burst Photo</td>
<td>Long Exposure</td>
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CONNECTING YOUR V50 ELITE WITH REMOTE
1. Turn on camera.
2. Press and hold the Down button for three seconds to turn on BT. The screen shows ‘BT ON’ - ‘Scanning’.
   Note: You can also go to Camera Setting to turn on BT.
3. Press and hold the Power button. Press and hold the Power button for three seconds to turn on remote. The remote indicator flashes every second during connecting.
4. The camera screen shows ‘Connected’. Remote indicator remains on after V50 Elite connects with remote successfully.
   Note: Photo indicator flashes when you take a photo. Video indicator flashes two seconds during video recording.

CONTROLLING YOUR V50 ELITE WITH YOUR VOICE
You can control your V50 Elite with your voice using a set of specific commands (see list below).
   Note: Voice Control performance may be impacted by distance, wind, and noisy conditions. Keep the product clean and clear of debris.

USING VOICE CONTROL
Voice Control works best when you say a command to the remote mic directly.
1. Turn on camera and remote.
2. Connect camera with remote.
3. Say a command to the remote mic from list below.
   Note: Voice Control also turns off when your camera powers off.

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<th>Action Command</th>
<th>Description</th>
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<tr>
<td>Action Start Video</td>
<td>Starts capturing video</td>
</tr>
<tr>
<td>Action Stop Shooting</td>
<td>Stops capturing video</td>
</tr>
<tr>
<td>Action Photo</td>
<td>Captures a single photo</td>
</tr>
<tr>
<td>Camera Turn Off</td>
<td>Powers off the camera</td>
</tr>
</tbody>
</table>
**Connecting to the AKASO DV App**

The AKASO DV 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 camera.

1. Download AKASO DV app to your mobile device from the Apple App Store or Google Play.
2. Turn on camera, in Video or Photo Mode press and hold Wi-Fi button for three seconds to turn on Wi-Fi.
3. Turn on Wi-Fi of your mobile device, connect to the Wi-Fi SSID ‘AKASO_V50Elite’.
4. Enter the password: 1234567890.
5. Open the AKASO DV app.

**Deleting Videos and Photos on your V50 Elite**

1. Enter playback mode. If your micro SD card contains a lot of content, it might take a minute for it to load.
2. Press Shutter button to enter video playback mode. Press Down button then Shutter button to enter photo playback mode.
3. Press Up / Down button to scroll through the video or photo files.
4. Press and hold the Shutter button for three seconds. The screen shows ‘Delete This File? Yes / No’.
5. Press Down button then Shutter button. The selected file will be deleted.

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

**Playing Back Your Content**

You can play back your content on the camera’s display, your computer, TV, or smartphone / tablet.

You can also play back content by inserting the micro SD 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 play back that resolution.

**Viewing Videos and Photos on your V50 Elite**

1. Enter Playback mode. If your micro SD card contains a lot of content, it might take a minute for it to load.
2. Press Shutter button to enter video playback mode. Press Down button then Shutter button to enter photo playback mode.

**Offloading your Content**

**Offloading your Content to a Computer**

To play back your video and photos on a computer, you must first transfer these files to a computer. Transferring also frees up space on your micro SD card for new content.

To offload files to a computer using a card reader (sold separately) and your computer’s file explorer, connect the card reader to the computer, then insert the micro SD 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.

**Offloading your Content to Smartphone or Tablet**

1. Open the ‘AKASO DV’ app.
2. Tap ‘Folders’ at the left corner of the bottom screen.
3. Tap ‘Edit’ at the right corner of the top screen.
4. Tap the files you want to save.
5. Tap ‘Save’ at the right corner of the bottom screen. The screen shows ‘Confirm Download’.
6. Tap ‘Confirm Download’.

**Pro Tip:** If you are recording video, you must stop recording before issuing a new command.
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 8X zoom.
1. Turn on V50 Elite.
2. Press Up or Down button to adjust the zoom level.
Note: You cannot zoom when Image Stabilization is on.

REFORMATTING YOUR MICROSD CARD
To keep your micro SD 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 camera and enter Camera Setting.
2. Press UP / Down button to find the ‘Format Card’ option.
3. Press Shutter button - Up button - Shutter button. The screen shows ‘Busy…Please wait’. Then you format your micro SD card successfully.

MAINTENANCE 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**

- Remote Microphone
- Remote Indicator
- Power Button
- Photo Indicator
- Photo Button
- Video Indicator
- Video Button
- Splashproof only, not waterproof

**CONNECTING YOUR V50 ELITE WITH REMOTE**

1. Turn on camera.
2. Press and hold the Down button for three seconds to turn on BT. The screen shows ‘BT ON’ - ‘Scanning’.
   **Note:** You can also go to Camera Setting to turn on BT.
3. Press and hold the Power button to turn on remote. The remote indicator flashes every second during connecting.
4. The camera screen shows ‘Connected’. Remote indicator remains on after V50 Elite connects with remote successfully.
   **Note:** Photo indicator flashes when you take a photo. Video indicator flashes two seconds during video recording.

**MOUNTING YOUR CAMERA**

Attach your camera to helmets, gear and equipment.
CONTACT US
For any inquiries, issues or comments concerning our products, please send E-mail to the address below or call us. We will respond as soon as possible.

E-mail: cs@akasotech.com
Tel: (888) 466-9222 (US) Mon-Fri 9am-5pm (EST)
Brand web: www.akasotech.com