# **USER MANUAL**

# apexcam<sub>x80</sub>

anexcam

### ACTION CAMERA



# apexcam-

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.

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

NOTE: 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. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

# apexcam

- English: "

This device complies with Industry Canada licence-exempt RSS standard(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."

- French:"

Le présent appareil est conforme aux CNR d'Industrie Canadaapplicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil nedoit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectriquesubi,même si le brouillage est susceptible d'en compromettre le fonctionnement."

L'appareil a été évalué pour répondre aux exigences généralesd'e xposition aux RF. L'appareil peut être utilisé sans restriction dans d es conditions d'exposition portables.

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# Introduction-

Apexcam X80 is an action camera with an Exmor RS-CMOS sensor (Sony IMX576), a revolutionary processor (i-Catch V35AX), a 1.3" front LCD monitor and a 2.0" high-resolution touch screen, ISO range from ISO 100 to ISO 3200, a 6-axis electronic image stabilizer, lens distortion correction, recording of up to 24MP images and 4K video, Wi-Fi/Bluetooth function, many shooting modes, a waterproof housing and many accessories.

### You should read the following before recording

First please read the "Safety Measures" (Page 02-03) to avoid picture failure or damage to the accessories. In addition, please read this user manual carefully for using the camera correctly.

# Please refer to this user manual while using the camera for better familiarize yourself with the camera functions

This allows you to have a better understanding of the camera. Also, please keep this manual in a safe place for future reference.

# Please Test the camera and check all the components before first use

First, please check that all components are included with your camera. Please contact us if any component is missing. View the recordings in time to check whether they were recorded correctly.

### Contact us

Thank you for choosing our products. Please let us know if we can help you more. If you have any questions, please contact our customer service team.

E-Mail: supports@apexcam.com

# Safety Measures

Make sure you read and understand these safety Measures before using the device. If you notice any malfunctions, problems or damage to the device, please contact our customer service team:<a href="mailto:supports@apexcam.com">supports@apexcam.com</a>



Follow the guidelines below to prevent Varnings: fire, generation of excessive heat,leakage of chemicals, and electric shock.

Only use the batteries, charger and accessories that are supplied. The camera contains high-precision electronic circuits. Under no circumstances should you attempt to disassemble the camera yourself. Otherwise the guarantee will be void.

Do not short-circuit the battery, do not disassemble it, and do not make any modifications. Do not associate the battery with heat. Batteries must not come into contact with fire or water. Do not expose the battery to strong physical shocks.

If intense heat, smoke, or vapor is generated while charging the battery, please immediately disconnect the battery charger from the power supply to stop charging. Failure to do so may result in fire and electric shock.

Immediately remove the battery if liquid leaks, changes color or shape, or emits smoke. Avoid touch the leaked battery fluid with eyes, skin and clothing, which could cause blindness or skin problems.

The device must be stored in a cool, dry and dust-free place. Do not use this device in an environment over 45°C. Otherwise, the device may be deformed and its insulation may be broken, resulting in the risk of fire or electric shock.

 Please dispose of this device, its accessories and packaging in accordance with the circular economy law. Before handling the battery, isolate the electrical contacts with adhesive strips. Direct touch with other metal objects or batteries may cause a fire or explosion.

Do not use external heat sources such as microwave ovens or hair dryers to dry the device or the batteries.

Damage to the device or the battery due to water ingress is not covered by the warranty.

It is normal for the device to heat up slightly when recording 4k videos. It heats up even more when you use the device in very hot places. People with very sensitive skin are recommended to use a selfie stick.

Keep the device out of the reach of children and young children. Straps or cables can suffocate, electrocute, or injure a child. Swallowing camera parts or accessories may also present a choking or injury hazard to a child or infant.

If the product is used by a child, a detailed explanation of the use by an adult is required. Supervise children while they are using the product. Improper use may result in electric shock or injury.

Do not place the camera near devices that generate a strong magnetic field, such as magnets or electric motors. Also, do not store the camera near devices that emit strong radio waves, such as a large antenna. Strong magnetic fields can cause the camera to malfunction or destroy image data.

It is recommended to clean the device after use. Periodically wipe dust around the lens and screen with a dry cloth.

# Part Designations





# Getting Started and Basic Camera Controls

This chapter describes preparatory steps for shooting and the quick start guide of the camera.

# Battery Charging and Insertions

### **Battery Charging**

- Place the battery in the charger.
- Connect the power cable (5V/1A) to the charger and insert the plug into the socket. Charging starts automatically and the charging indicator lights up.
- 3 Charging time(full charge) : about 4 hours. When charging ends, the charging indicator will go out.

### **Battery Insertion**



Open the cover.





Insert the battery.



Close the battery.



### - 'g- Tips for Using the Battery and Charger

This camera contains sensitive components like batteries. Please avoid exposing the camera to very cold or very hot temperatures. Low or high temperatures could shorten battery life or cause the camera to temporarily stop working properly. Do not store the camera at temperatures above 60 °C.

 Avoid dramatic changes in temperature or humidity when using the camera. Otherwise, condensation may form inside and outside the camera.

When using the camera as a dashcam, please remove the battery and use a well-known brand car charger (5V/1A).

If the battery runs out during recording, the camera will save the file and turn off automatically.

To maximize battery life, please follow these guidelines as much as possible:

1) Turn off the wireless connection.

2) Record the video at a lower frame rate and resolution.

3) Use screen saver.

### Compatible Memory Cards

### **Compatible Cards**

While recording, please use branded memory cards with reasonable performance (read and write speeds fast enough) to ensure the quality and stability of the recording. Flying maps can be used with the camera.

UHS-III at least for 4K video resolution (at least 60 MB/s read and write speed).

Capacity up to 128GB.

### -☆- Tips on Using Cards

### The camera does not come with a memory card. You must purchase it separately.\*

Please format the Micro SD, Micro SDHC and Micro SDXC memory card in this camera before using it.

Please insert the memory card correctly. Otherwise the card slot may be damaged.

To keep your card in good condition, please format it regularly.

Reformatting the memory card will delete everything stored on the memory card. So download your photos and videos first.

Do not place the memory card near strong magnetic objects to avoid data errors and loss.

# Using the Waterproof Case -

### Waterproof Case

This waterproof case is specially designed for diving, surfing, snorkeling and other water sports. The waterproof case not only offers your camera better waterproof protection, it also offers extra protection against dust, scratches and bumps. It's lightweight and easy to carry. Excellent PMMA material gives it high quality. With it, you can record activities even 30M underwater and the record can still stay clear and vivid. Your movement and photographic effect will not be affected by anti-surf printing. It is also convenient to connect the camera to other accessory mounts through this waterproof case.

### **Open the Waterproof Case**

Open the black latch at the top of the case.







Open the black latch at the top of the case.

### **Close the Waterproof Case**

Close the transparent display protection cap of the case.





2

Squeeze the case to make sure the case is tightly closed and the rubber seal is good.





Close the black latch on top of the case.







### **Tips on Using Waterproof Case**

In order to achieve better waterproof performance, the waterproof case is fully closed. This will reduce the volume of the recorded sound.

In order to take clear videos or photos, please remove the lens protective film before using the waterproof case. Please protect the lens protection cover from scratches after use.

Before closing the waterproof case, please keep the white rubber seal of the case clean as a single hair or grain of sand can cause a leak. You can test by closing the case without inserting the camera. Fully immerse the case in the water for about a minute. Then take the case out of the water, dry it with a towel and open the case. When the interior is dry, the case can be safely used underwater.

Before using the waterproof case, please make sure the waterproof case is well sealed before use. If the white rubber seal is hardened, deformed or damaged, please stop using the case and contact us to get a new case in time.

Please dry the case in time after use, otherwise the metal button will be dusty and reduce the waterproof performance. After using in sea water, you need to rinse the outside of the case with fresh water and then dry it. This prevents corrosion of the hinge pin and salt deposits that can lead to failure. Do not wash the inside of the case with water.

If you use the camera with the waterproof case in low temperature environments such as winter, rainy days, underwater, etc., please do anti-fog treatment to avoid shaky video. We recommend you add an anti-fog sheet (Put the anti-fog sheet in the waterproof case) to prevent the lens from fogging in low temperature or humid environment.

Protect it from falling and high temperature environment over 80°C.

The waterproof case is a fragile product. We recommend that you replace it in time according to the environment and frequency of use.

# Quick Guide



### Insert the Battery

Open the cover.Insert the battery



### Insert the Card

Insert the card in the card slot as shown.



### Power on/off the Camera

Press and hold the red button< <>> for three seconds.

- The camera beeps while the work light is on.
- When information is displayed on the screen, your camera is on.

Press and hole the red button< > for three seconds. The camera turns off while the work indicator light is off.



### Choose the recording mode

■ Press the mode button <●>to switch the mode. Press the mode button <●>again to exit the menu.

■ Press the Up < ▲ > and Down < ▼ >keys to scroll through the different modes. Then press the shutter button < ●>to select the desired mode.



■ Tap on the mode icon in the bottom left corner. Tap the < ×> icon in the top right corner to close the menu.

Tap the desired mode icon.



 While the camera is working in video or photo mode, quickly swipe up on the screen. Tap the < X > icon in the top right corner to close the menu.
Tap the desired mode icon.



### Choose the Playback Mode

While the camera is working in video or photo mode, quickly swipe down on the screen to switch to shortcut mode.

Quickly swipe up on the screen to exit Shortcut mode.



### Choose the Playback Mode

While the camera is in video or photo mode, quickly swipe left on the screen to switch to video or photo settings.

Tap the < < > icon in the upper left corner to close the menu.



### Choose the Playback Mode

While the camera is working in video or photo mode, quickly swipe right on the screen to switch to playback mode.

Quickly swipe down on the screen to exit play mode.



# Adjust the Camera

You can fine-tune various camera functions and select the function you want with Custom Functions.

# Photo Settings

### Photo Mode

First, please make sure that the desired photo setting option and desired photo resolution are set.

### To capture a time-lapse photo series

When Time Lapse Photo mode is selected, press the Shutter button  $< \odot >$ . The camera triggers continuous shooting with the set interval and the set TL duration. The camera plays a shutter sound every time a photo is taken. To stop taking time-lapse photos, press the shutter button again.

### To capture a burst series of photos

When burst photo mode is selected, press the shutter button  $< \odot$  >The camera plays a shutter sound every time a photo is taken.

### To capture a timer photo

When the timer is set, press the shutter button  $< \odot$ >. The camera starts the countdown and emits a shutter sound when a photo is taken.

### To capture a long exposure photo

When the long exposure option is selected, press the shutter button  $< \odot$ >. The camera will beep and make a shutter sound when the photo is taken.

### Photo Settings



While the camera is working in photo mode, While the camera is working in **photo mode**, tap the settings icon in the lower right corner of the screen.

Then swipe up or down (press the up  $< \blacktriangle >$  or down key $< \lor >$ ) to scroll through the different options and tap the one you want (press the shutter button  $< \odot >$  to toggle it). select the desired option).

Tap the zoom icon to adjust the zoom level.

# ⁻ថু́⁻ Notes

If you want to use TL Duration, please turn on Time Lapse Photo Interval first.

If you use a photo function, other photo functions are automatically unavailable.

# Video Settings

### Video mode

First, please make sure that the desired video setting option and desired video resolution are set.

### To start recording

Press the shutter button <  $\bigcirc$  >. During recording, the camera's blue work indicator flashes and a red dot appears on the screen.

### To stop recording

Press the shutter button < O >again. The camera work indicator stops blinking and the red dot disappears from the screen, indicating that recording has stopped.

### **Video Settings**



While the camera is working in video mode, tap the settings icon in the lower right corner of the screen.

Then swipe up or down (press the up  $< \blacktriangle >$  or down key  $< \lor >$ )to scroll through the different options and tap the one you want (press the shutter button  $< \odot >$  to toggle it). select the desired option).

### -`ģ́- Notes

When recording videos with high resolution or high frame rates like 4K 60/30 fps, the camera may get hot and consume more power, which is normal.

When recording high resolution or high frame rate videos in warm ambient temperatures, the camera may become hot and consume more power, which is normal.

Image stabilization will be disabled if you choose 1080P 120fps or 720P 120fps.

Slow motion, Auto Low Light, and LDC are automatically unavailable when using Electronic Image Stabilization.

■ The FAT32 format micro SD card will stop recording when the space of each file is over 4GB and start recording a new file. You cannot set the video file length to 5 minutes when the camera is recording 4K 60fps video because a 5 minute 4K 60fps video file is over 4GB.

Time Lapse Video, TL Duration and Slow Motion are automatically unavailable when you record loop video.

When using this camera as a dash cam, you should also select loop video and driving mode at the same time. Only the most recently captured moments are saved.

Time-lapse video is recorded without sound.

When using the time-lapse video function, the camera cannot record video at more than 30 fps.

Loop video and slow motion are automatically unavailable when you record time-lapse video.

If you want to set the time-lapse duration, please select time-lapse interval first.

Please choose 1080P 120fps, 720P 120fps if you want to record slow motion movies.

EIS and time-lapse video are automatically unavailable when using the slow-motion feature.

This camera will stop recording automatically when the battery runs out. Your video will be saved before the camera turns off. The video will not be saved and even corrupted if the battery is removed during recording or the power is cut off.

Due to the characteristics of the battery and the requirements of the surrounding temperature, in high temperature environment, especially in summer, when you use this camera as a dash cam, we strongly recommend removing the battery and using the car power supply directly. But if the car's engine is turned off, the camera will turn off immediately and the set date and time and the last recorded video will not be saved.

# System Settings

### **System Settings**

When the camera is working in the video settings or photo settings, tap the settings icon in the top right corner of the screen to open the system settings menu.

Then swipe up or down (press the  $up < \blacktriangle > or down key < \lor >)$  to scroll through the different options and tap the one you want (press the shutter button <  $\odot$  >to toggle it). select the desired option).

## -`ģ⁻ Notes

Snorkel mode provides color correction when capturing footage in blue water or clear fresh water at depths of 5 to 33 feet (1.5 to 10 m).

Snow mode can suppress overexposure in high-brightness environments such as snowfields or beaches.

When the battery is removed from the camera, the date and time are automatically reset.

The software version is the main information for firmware upgrade, troubleshooting and after-sales service. If necessary, please provide the software version information to our customer service team so that we can serve you in time.



# Playback

You can play back the photos and videos on the camera screen, your computer, TV or smart phone/tablet. They can also be played by inserting the Micro SD card directly into a device such as a computer or compatible TV. With this method, the playback resolution depends on the resolution of the device and its ability to play back that resolution.

# Playback on the camera screen

- Choose the playback mode. If the SD card contains a lot of content, it may take a minute to load.
- Swipe the screen up or down (press the up  $< \blacktriangle >$  or down key  $< \blacksquare$ >)to scroll through the video or photo files.
- In the file list, tap or on the desired file (press the shutter button  $< \odot >$ )to view the video or photo in full screen.
- Tap the screen (press the shutter button  $< \bigcirc >$ )to start playing the video or photo. Tap the screen again to pause the video playback. Tap the Next or Previous icon (press the Up  $< \blacktriangle >$  or Down key  $< \blacksquare$ >) to switch the photo.
- Tap the "Back" (press the mode key < )to return to the file list.
- Tap the "Back" again and swipe down on the screen again (press the Mode button < < >>)to exit Playback mode.

# Playback on the TV



- Turn on the TV.
- Connect the camera and the TV with a mini HDMI cable.
- Select the correct input source on the TV.
- Turn on the camera. After a while, you can preview the camera from the TV



- Set your camera to Playback mode.
- Select the content you want to play.

### -`ģ́- Notes

When the camera and TV are connected with an HDMI cable, the camera cannot record videos or photos, only for playback.

The camera does not come with an HDMI cable for recording. You must purchase it separately.\*

# Playback on the Computer =

- In order to play the videos and photos on a computer, you must first transfer these files to a computer. The transfer also frees up space on your micro SD card for new content.
- 2 Connect the card reader to the computer and then insert the Micro SD card into the card reader. You can then transfer files to your computer or delete selected files on your card.

# -ˈģ́- Notes

# The camera does not come with a card reader for recording. You must purchase it separately.\*

With this method, the playback resolution depends on the resolution of the device and its ability to play back that resolution.

You must use a card reader to transfer photos or audio files.

High data transfer stream is required to transfer 4K 60fps video. When playing a 4K 60fps video through a card reader, you may not be able to get any audio playback. In order to get better playback results, it is highly recommended to directly copy the 4K 60fps video to computer for playback.

This camera may not be compatible with files from other devices.

Quick Time Player is well compatible with MOV format video files. We strongly recommend using Quick Time Player to play video files on your 26 computer.

# Delete the Files on camera —

- Choose the playback mode. If the SD card contains a lot of content, it may take a minute to load.
- Swipe up or down (press up <  $\blacktriangle$  > or down <  $\forall$  >)on the screen to locate the file you want to delete.
- 3 Tap the Delete icon or hold the Up Key < ▲ > for seconds. The screen will say "Delete File".
- Tap on the desired option on the screen (press Up < ▲ > or Down Key< ▼ >to find the desired option: "Single File" or "All Files". Then press the shutter button < (●>to select the desired option).
- 5 Tap on the desired option on the screen to delete the desired file (press the up < ▲ > or Down Key < ▼ >to find the desired option: "Yes/No").
- 6 If you select "Yes", press the shutter button < ●>to delete the desired file. If you select "No", press the shutter button < ●>to return to playback mode.

# 4

# **Using the WLAN Function**

In this chapter you will learn how to establish a Bluetooth or WLAN connection.

# Connect to the Smart Phone

### Connect the camera to the iSmart DV2



- Download the iSmart DV2 to your smart phone from the Apple App Store or Google Play.
- Turn on the camera and then press the up button  $< \blacktriangle >$  for seconds or make sure the camera is in shortcut mode. Tap the WiFi icon to turn on WiFi.
- Select the WiFi setting of your smart phone and connect to the WiFi SSID "iSmart DV2"
  - Enter the password: "1234567890".
- Solution and the Signeric Content of the second sec



- - Tap on "Connect Wi-Fi".
- Press the up button < A > again for seconds if you want to turn off WiFi

### **Download and Share your Content**

### Connect to the Smart Phone



Ope

Open the "iSmart DV2".

Tap "Albums" in the left corner of the bottom screen.

Select files in Photos or Videos at the top of the screen.

To download, tap Download on the right corner of the bottom screen.

Save or share your content.

The iSmart DV2 app is compatible with the devices listed below:

For iOS: (above iOS13) \*iPhone6(6s/plus), 7(plus), 8(plus), X(XR/XS/XS Max), 11(Pro/Pro Max), 12(mini/Pro/Pro Max), 13(mini/Pro/-Pro Max) \*iPad(mini/Air/Pro)

For Android: (above Android 8.0) \*Android 4x Quad Core devices





### -`ģ⁻ Notes

The WiFi bandwidth of the camera is relatively narrow, and its signal is affected by distance, other signals, electromagnetic waves, obstacles and other factors. A signal delay of 2 to 5 seconds is normal. The WiFi distance is about 5 to 10 meters.

When the phone and camera are connected via WiFi, the power consumption of the camera increases. The temperature of the camera rises rapidly and the consumption of the camera battery also increases, which is a normal phenomenon.

Since there are many types of phones in the market and the phone system is constantly updated, iSmart DV2 needs time to sync timely updates. If iSmart DV2 can't be compatible with your phone, please tell us your phone's model and system version information. We will sync your phone in time.

If you find that your phone cannot connect to the camera's WiFi, please check your connection is correct first. If yes, but still can't connect, please delete the camera's WiFi SSID in your phone's WiFi settings and connect again. If needed, you can also delete iSmart DV2 from your phone and download and reinstall it again.

# Connect to the Remote Control

Place the remote on your wrist and accept ultra-convenient control for hiking, biking, skiing, bungee and more while installing the camera on your helmet or elsewhere.

2.4G Remote Control: Splashproof only, not waterproof / 5m effect

Select On/Off in the setting menu to turn on/off the 2.4G remote control.

- To start recording a video
- To stop recording a video Press the video button again.
- To take a photo

Press the photo button.



-`ģ⁻ Notes

Make sure the camera is working in video mode or photo mode. When the camera is working in the Playback or Setting menu, the camera cannot be controlled by the remote control.

Be sure to remove the remote control battery and store it in a safe and reliable place if you are not going to use it for a long time.

The remote control is always in standby mode. If the indicator does not light up, the battery was dead. In order to confirm the normal use of the remote control, please replace the remote control battery regularly and timely as follows:



Step 1: Use a 1.8mm screwdriver to remove the 4 screws on the back of the remote control, then you can open it.



Step 2: Remove another 4 screws on the circuit board.



Step 3: Lift the circuit board and slide out the battery as shown in the picture.



Step 4: Insert the new battery, keeping the "+" post facing up.



Step 5: Install all 4 screws back onto the board.



Step 6: Re-install all 4 screws in the cover.





# References

If you encounter a problem with the camera, first read this troubleshooting information.

# Troubleshooting -

### How can the camera recognize the SD card?

The memory card must meet the following conditions:

Make sure the memory card is U3.



Change the system of the card to FAT32(for 8-32 GB SD card) or exFAT(for above 32GB SD card).

Format UDISK (F:)	×
Capacity:	
29.1 GB	$\sim$
Elle system	
FAT32 (Default)	~
Mitts EAT22 (Default)	
EXEAT	
Restore gevice defaults	

Capacity:	
119GB	
File system	
exFAT(Default)	
NTES	_
exFAT(Default)	
128 KB	

Turn on the camera and insert the SD card.

System Setting > Format > Yes



### Check if the camera recognizes the card.



### How can I establish the WiFi connection?

- Download iSmart2 to your phone.
- You must first switch off the data traffic network of the mobile phone. Turn on the camera wifi and connect your phone to the camera wifi.

	Abum About
SETTINGS	First Step Please turn on your camera and Wi-Fi
Mobile data Allow this device to use mobile data	Second Step Select and connect the Camera's SSID in your phone's Wi-Fi setting,and return to the APP
Settings Cellular	Third Step Connect the camera
Cellular Data	👩 📚 🖪
Settings Wi-Fi	
Wi-Fi	
V Live DV 🔒 🗢 🚺	
	Start Connect

If the connection error appears on the screen, please check if the iSmart local area network is enabled in the phone settings.



Videos and images are not automatically synced to your phone's gallery, you must download them.















Scan QR code Download iSmart DV App on your smartphone Scan QR code Add Apexcam official customer service