



Action-Sports Camera

Part # 9907

User Manual

Please read through this user manual before using the product and keep the manual for future reference. Product appearance and/or specifications are subject to change without notification.

WASPCam is a division of 636 Distributing Inc.
Ariss, ON
519-822-8400

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Safety Precautions

- Read the following guidelines before using this camera
- Refer to the manual instructions to operate the camera properly. Improper operation may cause damage to camera internal components
- Do not store the product in dusty, dirty, or sandy areas, as its components may be damaged
- Do not leave the camera in places exposed to extremely high temperatures, such as direct sunlight for extended periods of time. High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics
- Do not store the product in cold areas. When the product warms up to its normal temperature, moisture can form inside, which may damage the electronic circuits
- Do not attempt to open the casing or attempt your own repairs. High-voltage internal components create the risk of electric shock when exposed
- Do not drop or knock the product. Rough handling may damage the internal components
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a slightly damp soft cloth
- Do not open the battery cover while an image is being recorded. Doing so will not only make storage of the current image impossible, it can also corrupt other image data already stored on file
- If the product or any of its accessories are not working properly, please contact 636 Distributing Inc. and our tech team will assist you and if necessary, arrange for the product to be repaired or replaced
- It is recommended to use the camera in temperatures between 0°C to 40°C
- Turn off the camera before removing the memory card, to avoid damaging the card or storage data
- It is normal for the camera to be warm after long periods of use
- Do not touch the lens while using the camera or it can affect video/picture quality
- Please use the air blower (special lens blowing equipment) to clean lens or use special lens-cleaning cloth to clean fingerprint or dust on the surface
- Always test for proper operation before using the camera
- 636 Distributing Inc. is not responsible for any damage or personal injuries resulting from the use of the WASPCam or for replacing it if lost or stolen
- 636 Distributing is not responsible for any legal repercussions from the use of the WASPCam or from the sharing of footage

System Requirements

The camera requires a PC with the following specifications for full HD 1080p 30fps and 720p 60fps playback

- Windows® 8 /Windows® 7 /Vista / XP (SP2) / MAC OS X 10.5 and later
- Intel® / AMD Dual-Core CPU and later
- At least 1 GB of RAM or higher
- At least DirectX 9 video card, DirectX 10 is recommended
- Standard USB 1.1 port and later
- At least 2GB or greater available hard disk space

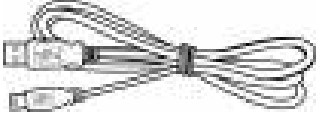
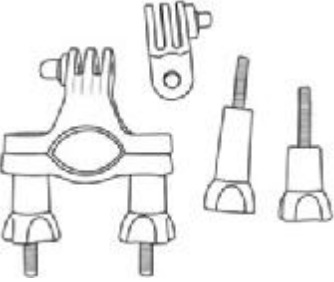
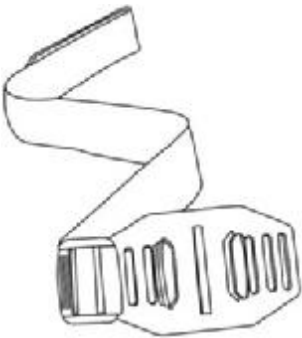
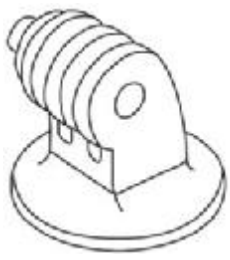
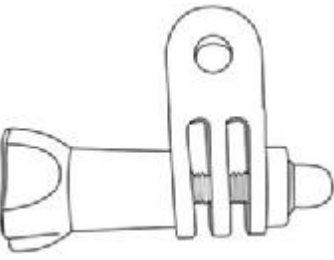
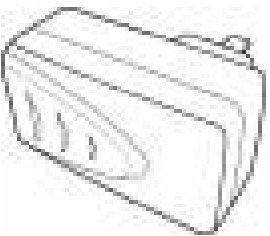
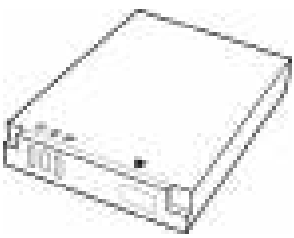
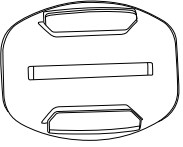
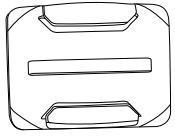
Features

The camera offers a variety of features and functions including

- 4K 2440P 24FPS, 2K 1440P (30fps), Full HD 1080p (60fps.)
- H.264 Video Clip
- 170° Wide Angle Lens
- WLAN 802.11 b/g/n
- 20 Megapixel Photos
- Li-ion Rechargeable Battery
- Smartphone App Supported – WASPcam App

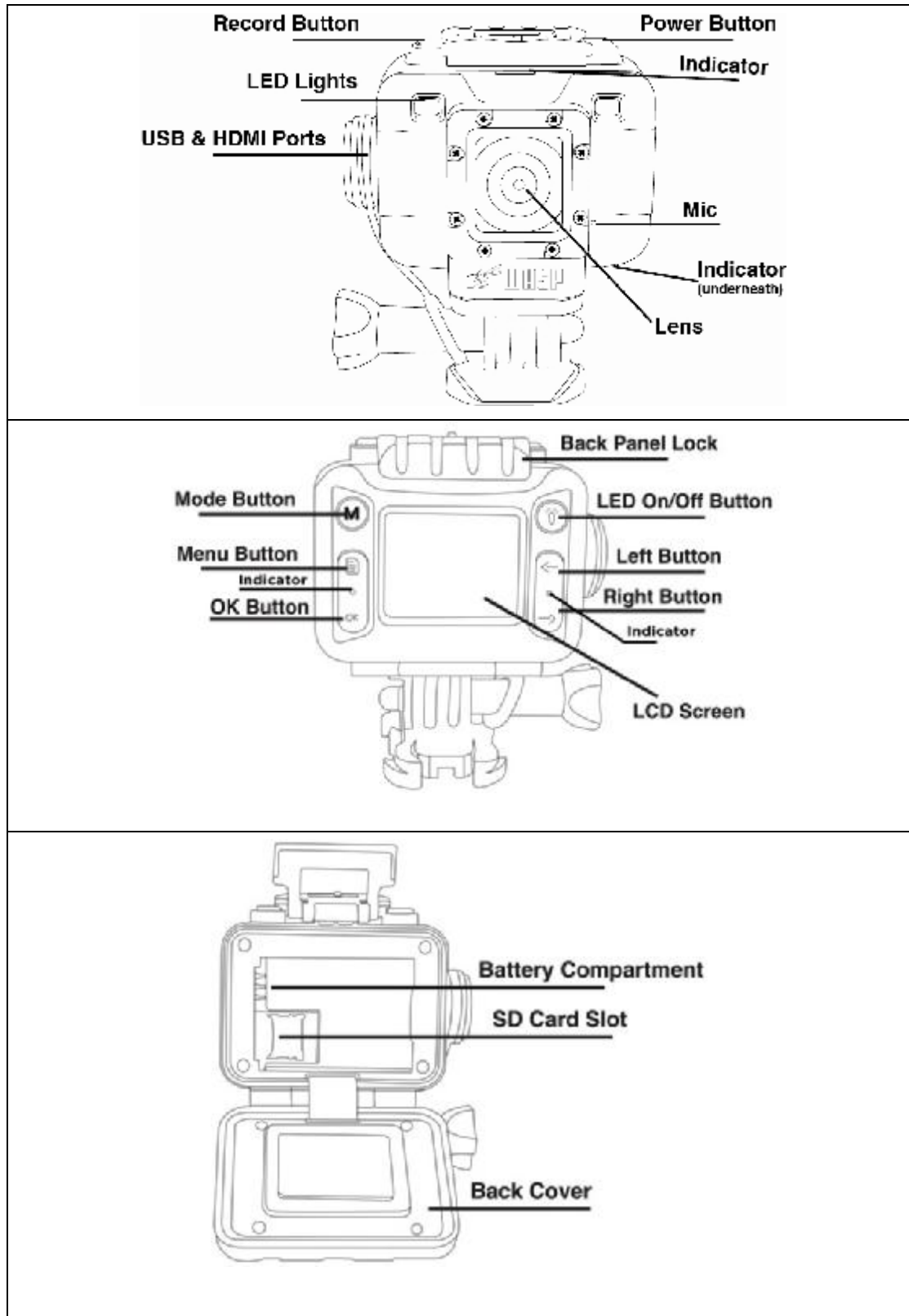
ACCESSORIES

The following items should be in your the package. If any items are missing or damaged, con your dealer immediately.

8Pin 2.0 USB cable  Micro USB Cable	 Bar Mount	 Helmet Mount
 Tripod Mount Adapter	 Straight Joint Mount	 J-Hook Buckle
 User Manual	 3M Stickers	 Wall Charger
 Li-Ion Battery	Wrist Remote	 Flat Mount w/3M Tape
		 Curved Mount w/3M Tape

Camera Function Quick Guide Diagram

Refer to the following illustrations to familiarize yourself with the buttons and controls of this camera



BUTTON FUNCTIONS	
Button	Function
Power Button (Top Left) 	To turn the camera on & off To capture pictures when recording
Mode Button M	To switch to picture mode, video mode and playback mode
Record Button (Top Right) 	Start and stop taking photos/videos, Returns to the photo/video mode when you are in the menu
Menu Button 	To enter / exit menu settings
OK Button OK	To browse photos and videos, to enter and confirm settings under setting mode, short press clear screen character
Left Button 	To choose the last menu or file, To zoom in image. To Reverse playback under playback mode.
Right Button 	To choose the next menu or file, To zoom out image. To fast forward playback under playback mode.
LED Light On/Off Button 	To open and close Wifi

BASIC CAMERA FUNCTIONS

Installing the Micro SD Card

1) Inserting the SD card

- With the camera off open the back cover
- Press the card slot to the right
- Place the SD card in the slot
- Close and lock the card slot
- Do the reverse to remove the SD card

****Note** - Please ensure that the SD Card is inserted in the right direction or you may damage the SD card

Using the Wifi button

Press the wifi button  above the arrow buttons to turn on the wifi mode, press again to quit wifi mode.

Charging the Battery

Connect camera and power supply using 8Pin 2.0 USB and charger. The red indicator at the front of the camera will be on while the camera is charging. Once it is fully charged the red indicator light will turn off.

****Note** - To improve the charging efficiency of the camera, please turn the camera off while it's charging

Turning the Camera On/Off

To turn on the camera, press the power button for 3 seconds and a chime will sound, the WASPcam 4K screen will turn on and the red indicator light at the front of the camera will also turn on. To turn off the camera, press the power button again for 3 seconds until the chime sounds and the screen goes black

LCD Screen

On the left of the LCD screen the video icon, EV icon, audio record icon, White balance are shown.

On the right of the LCD screen the remaining recording time, resolution, SD card icon, and battery icon are shown. On the bottom of the LCD screen the date and time are shown.

Maintaining the Waterproof Seal

1. Before entering water, check that the side cap and top lock all are tighten well.
2. Do not remove screws and ring around the lens. Doing so will compromise the waterproof seal of the camera.
3. When changing the battery or MicroSD card, ensure no debris (dust, sand small rocks, ect.) is on the rubber seal on the camera backing. When finished changing the battery or MicroSD card, ensure the lock is buckled securely and locked properly.
4. Avoid damaging the screen on the back of the camera. Punctures, scratches or cracks may compromise the waterproof seal.
5. If you notice the camera's battery has swelled, replace the battery to avoid compromising the waterproof seal.
6. After using the USB ports, replace the side cap and tighten until a tight seal forms. (Tighten until the cap cannot be moved in either direction easily.) Round coins or objects with thin, flat edges are good tools to help tighten the side cap completely.
7. After using the camera in salt water, wash the camera under regular tap water and dry completely. Once dry, open the battery compartment and remove the battery. Place battery in dry ventilated area to ensure battery remains dry. This avoids any degradation from salt water over a long period of time.
8. Do not remove any screws from the camera. Doing so will compromise the waterproof seal.

Recording Functions

Normal Recording

Turn on the camera and press the record button once to take video, and the green LED light between the arrows will flash and the recorded time and recording icon are displayed on the top of LCD screen

Press the record button again to stop recording and save the file – then remaining recording time is displayed at the top of LCD screen

Loop recording

1) Turn on the camera, press the menu button and use the right arrow to choose "Loop recording" to 2 mins (for more options refer to Video Settings), exit the menu and press the record button once to take a video. The LED light between the 2 arrows will flash green and at the top of the LCD screen it displays the red flashing recording

icon and the recording time

2) After 2 minutes, the camera will stop recording automatically and save the video, then continue recording

3) When SD card is full, camera will delete the first video footage automatically and continue recording

4) At anytime during recording, you can press the record button to stop and save the video. The remaining time will display on the LCD screen at the top right.

****Note** – If you power off the camera while the camera is set to loop recording, when you power the camera on again or connect charger, the camera will remain in looping mode.

****Note** –Loop recording, Time-lapse video, motion detection, only one function can be work at the same time.

Time-lapse Recording

Turn on the camera, press the menu button and use the right arrow to choose “Time-lapse Record” to 1 second(for more options refer to Video Settings), press the REC button once to take video, press the REC button again to stop.

When playback, The video will playback quickly(play faster than normal speed).This recording function for process of architectural projects, weather changing, flowers blooming.

To return to normal video, press the REC button again to stop recording. And choose “Time-lapse Record” to off.

**** Note:** This feature only suit for a long time recording, example: if set the “Lapse record” to 1 second, the recording time should not be less than 1 minute.

Also this setting will not work if the Loop Recording is not turned off.

Motion Detection

1) Press menu and use right arrow to choose Motion Detection and choose 30 SEC for example (for more options refer to Video Settings), press REC to enter Motion Detection mode. The screen will say Motion Detecting,and auto record for 30sec.

2)If there is movement, the camera will auto record for 30sec (or the time you set) and stop. If there is no movement, the camera will stop recording automatically. If there is constant movement, the camera will detect this and the camera will keep recording at 30sec intervals or the time you have set.

**** Note** – If you need to pause recording, press the record button once to stop it. If you need to cancel motion detection – please turn off this setting in the menu. Also this setting will not work if the Loop recording is not turned off.

Automatic Recording

Press menu and use right arrow to choose Automatic recording to on. It will auto recording after back to video mode.

Also It will auto recording every time when power on.
To return to normal video, Pls choose auto recording to off.

Video+Photo

- 1) Press menu and use right arrow to choose Video+Photo and choose 5 SEC for example (for more options refer to Video Settings),
- 2) Press the REC button once to take video, During recording, the camera will take photo automatically at the chosen interval continuously and save the photo, press the REC button again to stop.
- 3) To return to normal video, Pls choose Video+Photo to off.

Photos

Snap Shots

While you are recording video you can press the power button to take a picture

****Note** - when you are taking a snap shot, video is still being recorded continuously.
You can only view the snap shots in browse mode

1) Normal photo

Press Mode button until you see the camera icon in the top left corner. The exposure, white balance and ISO icons will also show on the LCD screen. At the top right of the LCD screen the display shows the remaining amount of photos, resolution, quality, SD Card & battery icons. Press the record button to take a photo. ****Note** - when taking pictures – please try to hold the camera steady or it may affect the picture quality.

2) Self-timer: Single/3s/10s/30s Timer

Press the menu button to enter camera settings, press the left and right arrow buttons to choose capture mode and select the time, press OK button to confirm, press the record button and the camera will count down the time you've selected and then take a photo. Press the record button again to stop, or change the capture mode to single.

3) Auto Photo: off/3/5/10 seconds

Press the menu button to enter camera settings, press the left and right arrow buttons to choose Auto Photo mode and select the time and press ok. Press menu to exit. Press the record button once and the camera will take a photo at the chosen interval continuously. The screen will show the countdown and when the time is up the camera will take a photo automatically and then save the photo, then continue photographing according to the time you set. To stop, please turn the auto photo setting Off

4) Burst: Off/burst 3/burst 10

Press the menu button to enter camera settings, press the left and right arrow buttons to choose burst(3 or 10 consecutive photos) then turn it on press OK button to confirm, press Menu to exit. Press the record button and the camera will take and save 3/10 consecutive photos. To stop, please change the Burst setting Off.

5) Quick Review Off/2seconds/5seconds

Press the menu button to enter camera settings, press the left and right arrow buttons to choose Quick Review, choose 2 or 5 seconds, press OK button to confirm, then press Menu to exit. Press the record button and the camera will take 1 photo and hold it for you to preview it for 2/5 seconds (according to the time you have set), then it will go back to photo standby mode

6) Zoom in/out

While in record or photo mode, you can use the left and right arrow buttons to zoom in/out(Maximum to 4times)

7) Playback mode

Under standby mode, press the mode button twice to enter into playback mode, the (.,.) will be in the top left corner. Press the arrow buttons to choose the file you want to review, press the OK button to confirm. Press again to pause, then press "OK" button again to continue playing the file. During Video playback press and hold the right or left arrow buttons to fast forward or reverse playback. Maximum speed to 8 times, Press "OK" button to stop.

Deleting / Protecting Files / Slide Show

Deleting Files

Under standby, press the mode button to enter into playback mode. Press the menu button to enter settings, then press the left/right arrows to select Delete, press the OK button to confirm. Press the left/right arrows to "Delete all" or "Delete Current", then press the OK button to confirm. Press the left/right arrow buttons to choose "Cancel" or "OK" to deleting the file. Press OK to confirm delete mode will exit

Protecting Files

Under standby mode, press the Mode button to enter into playback mode. Press the menu button to enter settings and press the left/right arrow buttons to select the "protect" setting. Press OK to confirm, and then press the left/right arrow buttons to select "Lock Current", "Unlock Current", "Lock All", "Unlock All", then press "OK" to confirm, Press "Menu" button to exit

Slide Show

Under standby mode, press the Mode button to enter into playback mode. Press the menu button to enter settings and press the left/right arrow buttons to select "Slide Show" then press the OK button to confirm. Press left/right arrow buttons to

select “2, 5, or 8 Seconds”, then press the OK button to confirm. Press the menu button to return

Menu Interface Introduction

When you are in standby mode, press the menu button to enter settings, press the left/right arrow buttons to choose the options, then press the OK button to confirm, press menu button again to quit

Video Menu Settings

Under Video mode, press the menu button to enter video settings, press the left/right arrow buttons to choose the options, then press the OK button to confirm, press menu button again to quit

MENU OPTION	SETTINGS
Resolution	2160 24FPS/1440 30FPS/1080P 60FPS/1080P 30FPS / 720P 120FPS / 720P 60FPS
Loop Recording	Off / 2 Minutes / 5 Minutes / 10 Minutes
Time-lapse Record	Off/1 Second/3 Seconds/5 Seconds/10 Seconds/30 Seconds/60Seconds
Automatic Recording	Off/On
Audio	Off/On
WDR	Off/On
Diving Mode	Off/On
Remove FishEye	Off/On
Motion Detection	Off / 30 Seconds / 1 Minute / 5 Minutes
Night mode	Off/On
Video+Photo	Off/5 Seconds/10 Seconds/30 Seconds/ 60Seconds
Date Stamp	Off / Date / Date & Time

System Settings

Under standby mode and playback mode, press the menu button twice to enter the system settings, press the left/right arrow buttons to choose the option, press the OK button to confirm, press the menu button to exit settings.

MENU OPTION	SETTINGS
WIFI	On/Off
WIFI SSID	User name setting, the default is WASPcam
WIFI Password	Password setting, the default is 12345678
White Balance	Auto / Daylight / Cloudy / Tungsten / Fluorescent / Underwater
ISO	Auto / 100 / 200 / 400 / 800 / 1600
Color	Color / Black & White / Sepia

Sharpness	Strong / Normal / Soft
Exposure	+2.0 / +1.5 / +1.0 / +0.5 / +0.0 / -0.5 / -1.0 / -1.5 / -2.0
Anti-Shaking	Off / On
TV Mode	NTSC/PAL
TV Out	Off / On
Auto Power Off	Off / 1 minute / 5 minutes/ 10 minutes
Screen saver	Off/30Seconds / 1Minute/5Minutes (Length of time before the screen shuts off)
Date / Time	YYYY / MM / DD / HH / MM / SS
Beep Sound	Off/30%/60%/100%
Language	English/Français/Español/Portuguese/Deutsch/ Italiano/简体中文/繁體中文/Русский/日本語/PolSKI/한국어
Frequency	60 HZ / 50HZ
G-Sensor	Off / High/Medium/Low
GPS	Off / On
Format	SD Card
Default Setting	Cancel / Ok
Version	FWVer: X.X /XXXX XX XX

Photo Menu Settings

Under Photo mode, press the menu button to enter photo settings, press the left/right arrow buttons to choose the options, then press the OK button to confirm, press menu button again to quit.

MENU OPTION	SETTINGS
Photo Resolution	20M 5210*3840/ 12M 4032*3024
Self-Timer	Single / 3S Timer / 10S Timer / 30S Timer
Burst	Off / Burst 3/Burst 10
Auto Photo	Off / 3 / 5 / 10 seconds
Quality	Fine / Normal / Economy
Quick Review	Off / 2 / 5 seconds
Date Stamp	Off / Date / Date & Time

Using the Camera's WIFI

1) Before using this function, download and install the WASPcam App to your Apple iPhone (iOS system) smartphone or Android smartphone

Installing the WASPcam App

Apple iPhone (iOS system) Smartphone

There are two ways to download the WASPcam App to your iPhone:

1. Download from iTunes Store through your computer's iTunes program
2. Download from the App store through your iPhone

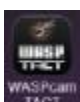
Note: Before you do the following steps, please confirm that your computer has the

iTunes program installed and you have set up an Apple account. It needs to be the Apple iOS 6.0 system or above.

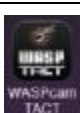
Download from iTunes

	Click iTunes icon to open iTunes
	Click iTunes Store Icon to open the iTunes Store
	Enter "WASPCam " into the search bar Click download under the WASPCam icon
	Once it's finished the WASPCam icon will show on your home screen

Download by iPhone

	Click the App Store icon
	Click search icon
	Click the search field and enter WASPCam , click the blue search button
	Click the icon and click download
	Once it's finished the WASPCam icon will show on your home screen

Android Smartphone

Open the Google Play store on your phone	
Enter "WASPCam " into the search bar and hit search	
	Click on the WASPCam icon to view the app page
Click the install button to install the WASPCam app to your phone	
	Once download is complete, the WASPCam app will appear in your application menu.

Android by Computer

Open the computer internet and enter this link : https://www.dropbox.com/sh/mn1ej7bh64dfbsh/AAAdpx7rrdFKtLA6WkTB_bgZa?dl=0	
Click download at the pop-up dialog box to download "wasp20150514.apk"	

Connect mobile and computer by USB cable
Copy "wasp20150514.apk" to your mobile
Find "wasp20150514.apk" at your mobile
Click "wasp20150514.apk" to install

Using the Camera's WIFI Cont.

2) Turn the camera on and press the menu button twice to enter system settings, press the left/right arrow buttons to choose WIFI SSID. Press the OK button to select then press the menu button to select Del then press the Ok button to delete the WIFI name. Then you can enter new a new WIFI name. Press the menu button to select uppercase/lowercase letters or numbers, press the left/right arrow buttons to choose the letters to spell the word you want then press the Ok button to confirm. Press the menu button to select and Ok to confirm the setting.

3) Turn the camera on and press the menu button twice to enter system settings, press the left/right arrow buttons to choose WIFI password. Press the OK button to select then press the menu button to select Del then press the Ok button to delete the WIFI password. Then you can enter a new WIFI password. Press the left/right arrow buttons to choose the letters to spell the word you want then press the Ok button to confirm. Press the menu button to select and Ok to confirm the setting.

Note: The WIFI name and passwords need to be at least 8 characters comprised of upper/lower case letters and numbers

4) Turn the camera on and press the menu button twice to enter system settings,

press the left/right arrow buttons to choose WIFI and select open. (Or press  to enter.) The WIFI icon will show on the screen. Search the Wlan using your mobile, find the network name which you have set, connect and enter the password XXXXXXXX (whatever you saved) and confirm. Connection is successful when the LCD screen shows “WIFI connected” then open the WASPcam APP and preview the camera's view, take video and photos and also change menu settings directly from your smartphone to your camera, such as video resolution, photo size etc.

APP Interface Description

	Open WIFI and to connect, click the WASPcam icon to enter the APP
	This will show on your screen when the app is starting up
	After connecting, your smartphone will enter standby mode and live viewing screen will be showing on your phone
	Press this icon to switch to recording and photos
	Press this icon to record video or photo
	Press this icon to enter settings: Video Resolution Photo Size Looping Record Audio Auto Off Clear Cache

	Wi-Fi
	Press this icon to see all the files
	Press this icon to download files from the camera to smartphone
	Press this icon to see the files that have been downloaded to your smartphone
	Press this icon to change your WIFI setting. Connect to the internet network and open the downloaded photo/video on your smartphone and press  to select where to share

Connecting to External Devices

Play back on TV

Turn the camera on, connect the camera with the AV cable to the TV, choose USB mode on the TV then go into the camera menu settings and make sure the "TV Out" is set to open. The LCD screen on the camera will turn off automatically and now all operations and functions can be seen on the TV.

****Note:** TV AV cable is not included and when connected it will only transmit images/videos but no sound.

Technical Specifications

Sensor	12M CMOS
Video Resolution	2160 24FPS/1440 30FPS/1080P 60FPS/1080P 30FPS / 720P 120FPS / 720P 60FPS
Image Size	20M / 12M
Memory	Micro SD card up to 64GB – Class 6 or higher
Lens	170°
Video Format	.MP4
Image Format	JPG
WiFi	802.11b/g/n
Audio	Built-in Mic, Speaker
Port	8Pin 2.0 USB(GPS/TV OUT)
Battery	Lithium-ion Rechargeable Battery 1050mAh
Screen	1.5 inch LCD

FCC Statement

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.

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.

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

IC Statement

This device complies with Industry Canada's licence-exempt RSSs. 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

The term "IC: " before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.

Le présent appareil est conforme aux CNR d'Industrie Canada applicable aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

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For manuals in additional languages, please visit www.waspcam.com

FCC Regulatory Compliance

Body worn operation

The device complies with RF specifications when used near your ear or at a distance of 0cm from your body. Ensure that the device accessories, such as a device case and device holster, are not composed of metal components. Keep the device away from your body to meet the distance requirement.

Certification information (SAR)

This device is also designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). The SAR limit adopted by the USA is 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported to the FCC for this device type complies with this limit. The highest SAR value reported to the FCC for this device type when properly worn on the body is 0.19 W/kg.