



WASP^{CAM®}



ROX

9941 4K 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 notice. Before using this camera, please insert a micro SD card (class 10 card, no larger than 64GB) into the 9941/9942 Wi-Fi camera. Camera functions will not work without a micro SD card inserted into the camera. Please note the camera **does not include** a micro SD card inside the package, the micro SD card must be purchased separately.

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Preface

This product is an action-sports camera tailored to meet the demands of today's active lifestyles! This action camera is perfect for vehicle data recording, photography, outdoor sports, home security, and watersports. It allows you to film anytime, anywhere.

Manual Disclaimer

Every effort has been made to ensure that the contents of this manual are correct and up to date. However, no guarantee is made regarding the accuracy of the contents. The manufacturer reserves the right to change the manual contents and product specifications without notice.

Safety Precautions

- Do not store the product in dusty, dirty, or sandy areas, as its internal components may be damaged.
- Do not store the product in hot areas. 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 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 the SD card.
- If the product or any of its accessories are not working properly, please contact WASPCam at (773) 889-3087 or info@waspcam.com. Our staff will assist you and if necessary, arrange for the product to be repaired or replaced.
- Test for proper operation before using the camera.
- WASPCam is not responsible for any collisions, damage or personal injuries resulting from the use of the ROX Action Camera.
- WASPCam is not responsible for any legal repercussions from use of the ROX Action Camera or from the sharing of footage.

WASPCam is not responsible for any property damage or lost/stolen ROX Action Cameras.

System Requirements

The camera requires a computer with the following minimum specifications for 4K video playback:

- Monitor capable of displaying 4K resolution
- 4th Generation Intel® Core™ processor family / AMD A10-7800 APU
- 8 GB of RAM
- DirectX 9 compatible graphics solution
- Available hard disk space

The camera requires a computer with the following minimum specifications for full HD video playback:

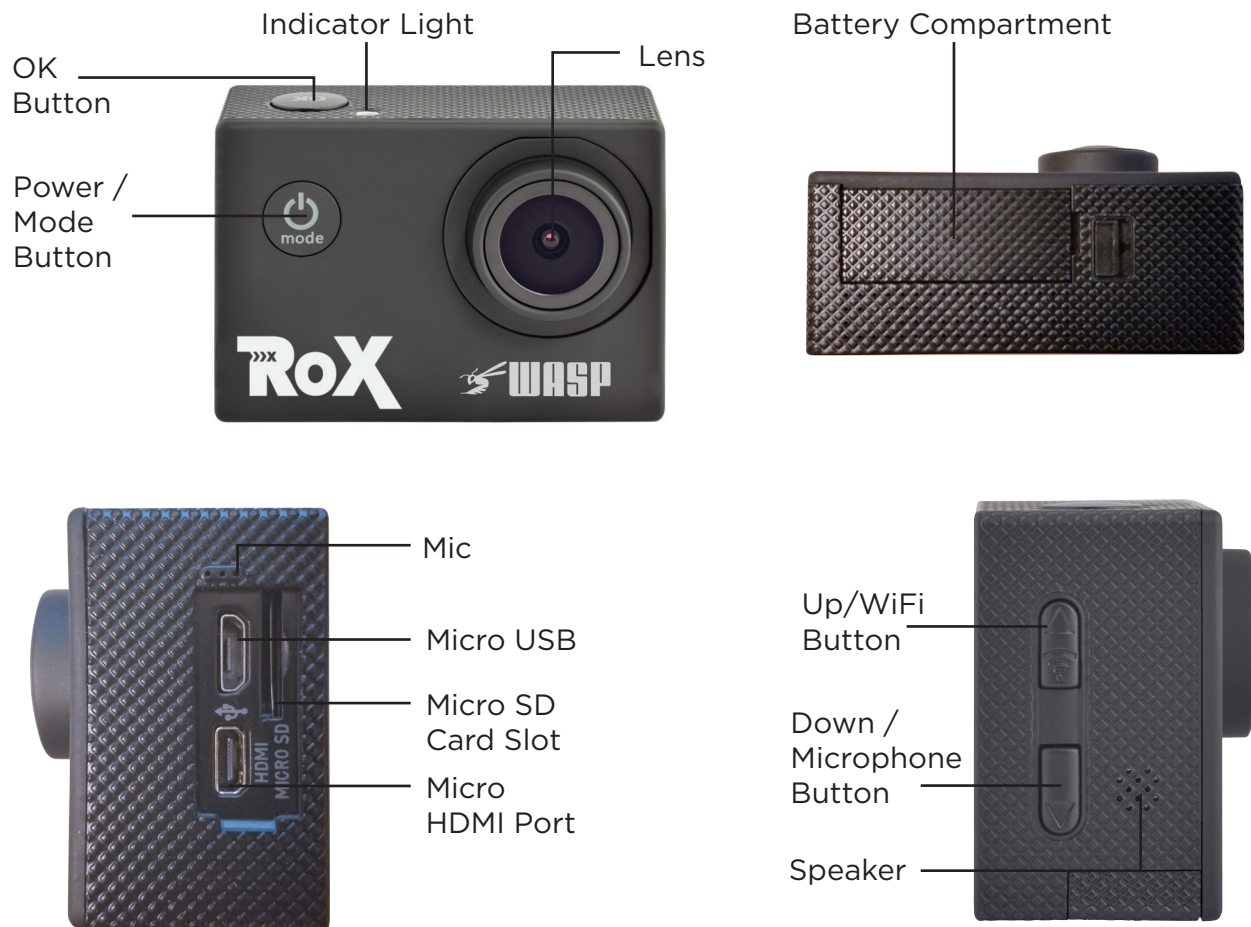
- Windows® 7 or later / MAC OS X 10.8 or later
- Intel® Core Duo™ / AMD Dual-Core CPU
- 2 GB of RAM
- DirectX 9 compatible graphics solution
- Available hard disk space

Features

The camera and its included accessories offer a variety of features and functions including:

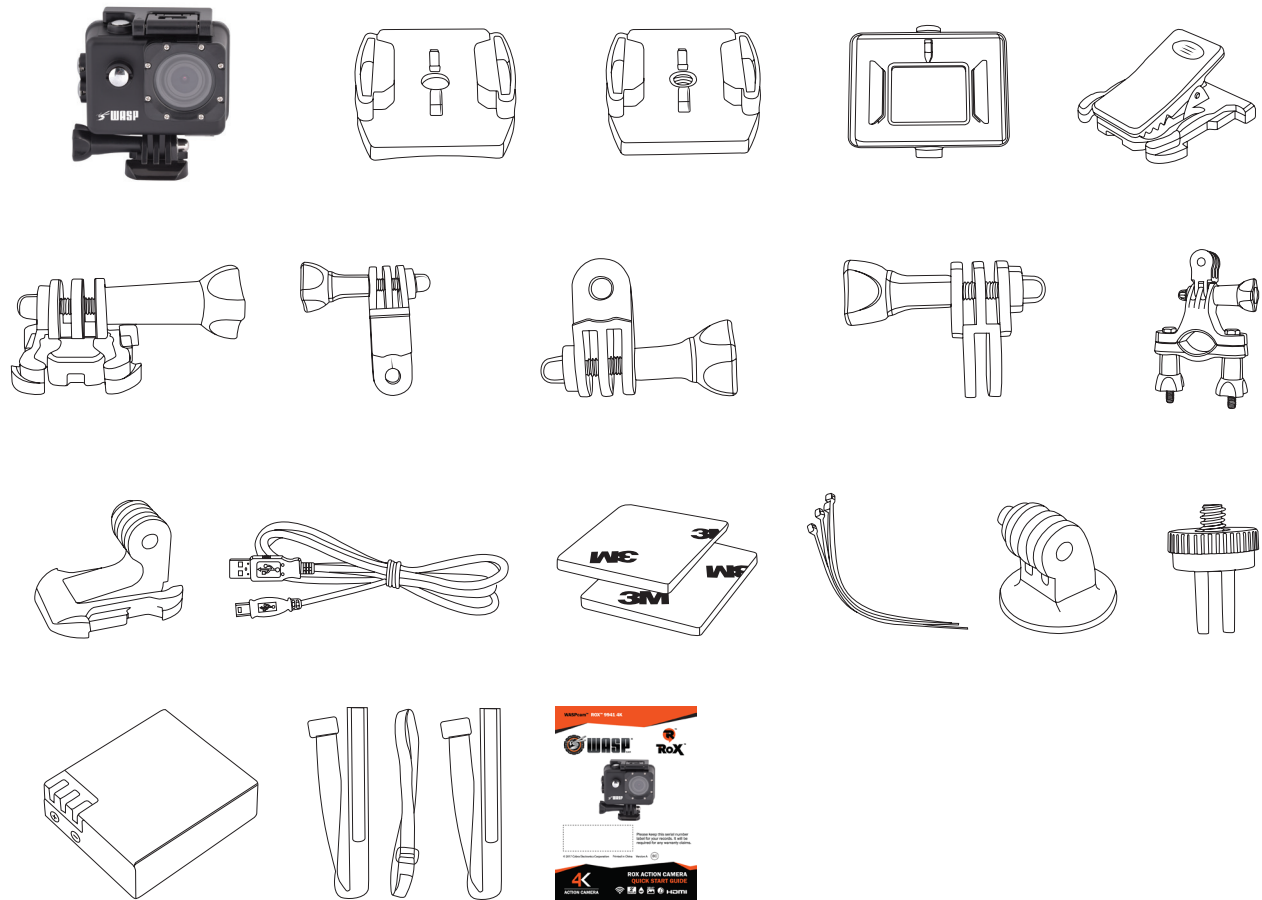
- A water-resistant case that allows you to film underwater up to 98 ft. (30 m)
- Built-in Wi-Fi: Connects camera to Smartphones via WASPcam ROX App
- High definition screen that displays and plays back recorded videos
- Removable battery that is easy to replace with a spare to prolong the recording time of the camera
- Video recording while charging
- Video recording while battery powered
- HD wide-angle lens
- Supports memory cards up to 64GB maximum storage space, class 10
- Multiple video recording formats: 4K/2.7K/1080P / 720P
- Records video in .MP4 format
- Multiple photo shooting modes: Single shot, Burst, and Continuous Shooting (Time-lapse)
- Compact size

Camera Diagram



Accessories

The following items are included in the camera package. If any items are missing or damaged, contact WASPcam immediately.



- Matte Black Waterproof Camera Casing
- ROX 4K Camera
- Flat / Curved Adhesive Mounts
- Camera Holder
- Camera Holder Clip
- Basic Buckle Mount
- Straight Joint Mounts x3
- Bike Bar Mount
- J-Hook Buckle Mount
- Micro USB Charging Cable
- 3M Stickers x2 / Zip Ties x4
- Tripod Mount
- Tripod Mount Adapter
- Rechargeable Lithium-Ion Battery
- Velcro Straps x3
- 9941 4K Instruction Manual

Button Functions

Power/Mode Button 	Turns the camera on & off. Change between Video mode, Photo mode, Playback mode, and settings menu.
OK Button 	Enter and confirm settings in the settings menu. Start/stop recording in Video Mode. Take a photo in Photo Mode.
Up Button 	Scroll up through the settings. Scroll through videos/photos in Playback Mode. Hold to enter Wi-Fi mode. Press to zoom in.
Down Button 	Scroll down through the settings. Scroll through videos/photos in playback mode. Hold to turn on/off Mic Press to zoom out

Camera Functions

Installing the Micro SD Card

To insert the SD card

- Find the Micro SD card slot
- Insert the card into the slot (make sure the card is facing the correct way)
- Push the card into the slot until it clicks

****Note** – Please use a minimum speed Class 10 card, maximum 64GB storage capacity. WASPcam recommends a name brand card such as Lexar®, SanDisk®, Kingston® or Gigastone.

Follow these steps in reverse order to remove the SD card.

****Note** - Please ensure that the SD Card is inserted in the correct orientation or you may damage the SD card and/or SD card reader.

Battery

- Use only the type of battery that came with the camera. Using any other type of battery may damage the equipment and invalidate the warranty.
 - Do not short the battery terminals. The battery could overheat.
 - Do not attempt to split or peel the outer casing.
 - Remove the battery if the camera is not going to be used for a long time. If the battery is left unused for more than 3 months, charge the battery before use.
1. Installing and Removing the Battery
 - Pull the battery door to release
 - Correctly install the battery into the camera as directed by the +/- symbols
 - Remove Battery: Open the battery door to take the battery out
 2. Charging
 - Charging can be done by either connecting the camera to a computer or USB power adapter
 - Charge the camera in a vehicle by connecting it to a USB car charger
 - The camera can record video while charging
 - The camera will charge even when it's powered off

Switching Camera On and Off

- Press and hold the Power / Mode button for 3 seconds to turn it on/off

Switching Modes & Changing Settings

Switch between video recording, photo, & playback modes and the settings menu by pressing the Power / Mode button. An icon in the upper left of the screen will show the current mode.

In the settings menu choose a setting with the Up/Down buttons and select with the OK button. Press the Power / Mode button to exit the settings menu.

Camera Modes

Video Recording Mode

Press OK to start recording. A record icon in the bottom will start to flash. Press OK again to stop recording. The record icon will disappear.

Video Recording Notes:

Resolution: Higher resolutions result in larger video files.

Loop Recording: When loop recording is turned on video files will be at the specified length. When the SD card is full the oldest loop recording file(s) will be deleted automatically so new files can be recorded.

Exposure: In very bright environments set the Exposure Value (EV) as a positive number. For very dark environments set the EV to a negative number. The larger the value the greater the exposure value is compensated.

Photo Mode

Press OK to take photos.

Photo Notes:

Exposure: In very bright environments set the Exposure Value (EV) as a positive number. For very dark environments set the EV to a negative number. The larger the value the greater the exposure value is compensated.

Playback Mode

Press Up/Down to scroll through the files on the SD card

Press OK to playback the video file

During video playback, long press Up/Down to forward/backward

Settings Menu

(Default settings in bold.)

Press Up/Down buttons to scroll through the settings and select with the OK button.

Press the Mode button to go back and to exit the menu.

MENU OPTION	SETTINGS
Video Settings	
Video Resolution	4K 30FPS / 2.7K 30FPS / 1080 60FPS / 1080P 30FPS / 720P 60FPS / 720P 30FPS
Microphone	√
Time-lapse	Off / 0.5s / 1s / 2s / 5s / 10s / 30s / 60s
Loop Recording	Off / 1minute / 3minutes / 5minutes
Slow Motion	1080 60FPS / 720P 120FPS
Photo Settings	
Photo Resolution	16MP / 12MP / 8MP
Timer	Off / 3s / 5s / 10s / 20s (camera will take a photo after selected amount of time)
Camera Settings	
Exposure	+3 +2 +1/ 0 / -1 / -2 / -3 (used to adjust the amount of light let into the camera sensor, use positive setting in bright conditions and negative setting in dark conditions)
White Balance	Auto / Sunny / Cloudy / Incandescent Light / Fluorescent Light (Helps balance color in certain lighting to make footage/ images look more natural)
Image Rotation	☐ / √ (Rotates the image 180°)
Driving Mode	☐ / √ (Turns on loop recording, auto record, and auto shutdown. Camera turns on and starts recording automatically when connected to the car and the car is on)
Light Source Frequency	Auto / 50Hz / 60Hz
LED Indicator Light	√
Screen Saver	Off / 10s / 30s / 60s (After a period of inactivity, the camera's LCD will turn off to conserve power. Press OK to wake up the LCD screen)
Auto Power Off	Off / 1min / 3mins / 5mins (turns camera off after selected period of inactivity)
Date/Time Stamp	☐ / √

System Settings	
Language	English , French, Dutch, Portuguese, Polish, Spanish, Italian, Simplified Chinese, Traditional Chinese, Japanese, Russian, Korean, Thai, German, Arabic
Date/Time	Allows users to set the current date and time
Beep Sound	√
WiFi	☐ / √ (Check to enter WiFi mode)
Format	YES / NO (formats the SD card and erases all data from the SD card)
Restore Defaults	YES / NO (Resets all settings to the default values)
Firmware Version	Displays camera's current version (YYYYMMDD VX.X)

To view the videos/photos on a computer, attach a USB cable to export the videos and photos onto a computer to play. You can also take the Micro SD card out and access the files with a card reader.

Downloading the WASPcam ROX App

Download from iTunes

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

Download by iPhone

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

Download to Android Smartphone

	Open the Google Play Store on your phone.
	Enter "WASPcam ROX" into the search bar and hit search.
	Click on the WASPcam ROX icon to view the app page.
	Click the install button to install the WASPcam ROX to your phone.
	Once it's finished, the WASPcam ROX icon will appear in your application menu. .

Using the Wi-Fi

To enter the camera's Wi-Fi interface, press and hold the up button. You can also turn the camera Wi-Fi on from the system settings menu. The camera's LCD screen will change to a Wi-Fi symbol. Once the Wi-Fi has initialized on the camera, the LCD screen will show the network name (ssid) and password (pwd) required to connect a Smartphone to the Wi-Fi.

Step 1: Initialize the Wi-Fi on the camera

Step 2: On a Smartphone, enter the Wi-Fi settings

Step 3: Connect the Smartphone to the ROX camera's Wi-Fi network
(network name is displayed on the camera's LCD screen)

Step 4: Enter the password displayed on the cameras LCD screen

Step 5: Wait for the Smartphone to connect to the camera's Wi-Fi

Step 6: Once Wi-Fi is connected, open the WASPcam ROX App. The app will connect the Smartphone to the ROX camera

Step 7: Once the connection is successful, the Smartphone will display what the camera sees on the screen

Step 8: The camera photo/video recording can now be controlled from the Smartphone

Connecting to External Devices

Playback on HD TV

Turn the camera on, connect the HDMI port in the camera to the TV via an HDMI cable (not included) and choose HDMI mode on the TV. The LCD screen on the camera will turn off automatically and now all operations and functions can be seen on the TV.

View Files on PC / MAC

Connect the camera to the computer using the included USB cable. The LCD Screen displays USB Mode and Charging Mode. Press the up/down buttons to select USB Mode and the OK button to confirm. Click on the camera drive and the subfolder DCIM to view videos and photos.

Technical Specifications

Screen	2 inch LCD Screen
Lens	170°A + wide-angle lens
Language Options	English / French / Dutch / Portuguese, Polish / Spanish / Italian / Simplified Chinese / Traditional Chinese / Japanese / Russian / Korean / Thai / German / Arabic
Video Resolution	4K 30FPS / 2.7K 30FPS / 1080 60FPS / 1080P 30FPS/ 720P 60FPS / 720P 30FPS
Video Format	.MP4
Compressed Format of Videos	H.264
Resolution of Photos	16M / 12M / 8M
Storage	MicroSD (Class 10 - max 64GB)
Shooting Modes	Single Shot / Self-timer (3s / 5s / 10s / 20s) Continuous shooting (Time-lapse)
Power Source	Micro USB, 5V 250mA
Battery Capacity	900mAh
Recording Time	1080P / About 70 minutes
Charging Time	About 3 hours
Dimensions	29.8x59.2x41mm

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