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

![Camera Diagram](image)
Accessories
The following items are included in the camera package. If any items are missing or damaged, contact WASPcam immediately.

- CAMO 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
- 9942 CAMO Instruction Manual
Button Functions

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

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.

<table>
<thead>
<tr>
<th>MENU OPTION</th>
<th>SETTINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video Settings</strong></td>
<td></td>
</tr>
<tr>
<td>Video Resolution</td>
<td>4K 30FPS / 2.7K 30FPS / <strong>1080 60FPS</strong> / 1080P 30FPS / 720P 60FPS / 720P 30FPS</td>
</tr>
<tr>
<td>Microphone</td>
<td>√</td>
</tr>
<tr>
<td>Time-lapse</td>
<td>Off / 0.5s / 1s / 2s / 5s / 10s / 30s / 60s</td>
</tr>
<tr>
<td>Loop Recording</td>
<td>Off / 1minute / 3minutes / 5minutes</td>
</tr>
<tr>
<td>Slow Motion</td>
<td><strong>1080 60FPS</strong> / <strong>720P 120FPS</strong></td>
</tr>
<tr>
<td><strong>Photo Settings</strong></td>
<td></td>
</tr>
<tr>
<td>Photo Resolution</td>
<td>16MP / 12MP / 8MP</td>
</tr>
<tr>
<td>Timer</td>
<td>Off / 3s / 5s / 10s / 20s (camera will take a photo after selected amount of time)</td>
</tr>
<tr>
<td><strong>Camera Settings</strong></td>
<td></td>
</tr>
<tr>
<td>Exposure</td>
<td>+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)</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto / Sunny / Cloudy / Incandescent Light / Fluorescent Light (Helps balance color in certain lighting to make footage/images look more natural)</td>
</tr>
<tr>
<td>Image Rotation</td>
<td>[ ] / √ (Rotates the image 180°)</td>
</tr>
<tr>
<td>Driving Mode</td>
<td>[ ] / √ (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)</td>
</tr>
<tr>
<td>Light Source Frequency</td>
<td>Auto / 50Hz / <strong>60Hz</strong></td>
</tr>
<tr>
<td>LED Indicator Light</td>
<td>√</td>
</tr>
<tr>
<td>Screen Saver</td>
<td>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)</td>
</tr>
<tr>
<td>Auto Power Off</td>
<td>Off / 1min / 3mins / 5mins (turns camera off after selected period of inactivity)</td>
</tr>
<tr>
<td>Date/Time Stamp</td>
<td>[ ] / √</td>
</tr>
</tbody>
</table>
### System Settings

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

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**

1. Click iTunes icon to open iTunes.
2. Click Store to open the iTunes Store.
3. Enter “WASPcam ROX” into the search bar. Click download under the WASPcam ROX Icon.
4. Once it’s finished the WASPcam ROX icon will show on your home screen.
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

### Download by iPhone

<table>
<thead>
<tr>
<th>WASPcam ROX App</th>
<th>Click the App Store icon. Click search icon.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Click the search field and enter “WASPcam ROX”, click the search button.</td>
</tr>
<tr>
<td></td>
<td>Click the icon and click download.</td>
</tr>
<tr>
<td></td>
<td>Once it’s finished the WASPcam ROX icon will show on your home screen.</td>
</tr>
</tbody>
</table>

### Download to Android Smartphone

<table>
<thead>
<tr>
<th>WASPcam ROX App</th>
<th>Open the Google Play Store on your phone.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Enter “WASPcam ROX” into the search bar and hit search.</td>
</tr>
<tr>
<td></td>
<td>Click on the WASPcam ROX icon to view the app page.</td>
</tr>
<tr>
<td></td>
<td>Click the install button to install the WASPcam ROX to your phone.</td>
</tr>
<tr>
<td></td>
<td>Once it’s finished, the WASPcam ROX icon will appear in your application menu.</td>
</tr>
</tbody>
</table>
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

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