ROVE™ R2-4K DUAL

DUAL CHANNEL 4K DASH CAM

With 128GB ROVE PRO microSD Card

Please Read

ROVE DASH CAM

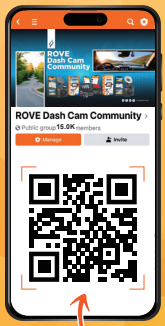
Smart & Beautiful
ROVE APP For
iOS & Android

Wanna meet?
other ROVERS (ROVE Owners)

Join the vibrant ROVE Dash Cam Community on FB.
Ask questions, share your dash cam videos or just hangout directly with us.









FREE 128GB
ROVE PRO microSD card
(Included)

SCAN to join ROVE Dash Cam Community on Facebook

ULTRA-HD 4K

IMAGE SENSOR STARVIS 2

BUILT-IN GPS

BUILT-IN 5GHz WiFi

DOWNLOAD SPEED Up To 20 MBPS

PARKING MODE

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USER MANUAL

www.rovedashcam.com



STOP **EXPERIENCING PROBLEMS?**

- Item NOT as described?
- Damaged or defective?
- Missing items?
- Any issues what so ever?

CONTACT US BEFORE RETURNING THE ITEM

WE WILL HELP YOU RESOLVE ANY ISSUES ASAP.

CUSTOMER SERVICE

7 Days a Week: 9 AM - 5 PM (PST)

EMAIL US — Response in just 6 hours
help@rovedashcam.com

TEXT US — For faster response text us
1-844-ROVE-CAM
1-844-768-3226

Scan the QR Code to Email US

Scan the QR Code to Text US

Just Scan the QR Code with your iPhone or Android's Camera to get in touch with us.

www.rovedashcam.com

WATCH

HOW TO VIDEOS

Visit our website

www.rovedashcam.com/pages/videos



ROVE™ | ROVE R2-4K DUAL DASH CAM

Understanding ROVE R2-4K DUAL

Watch HOW-TO VIDEOS to learn & understand all the features so you can get the maximum benefit out of it.

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INTRODUCTION

Thank you for choosing the ROVE™ R2-4K DUAL Dash Cam (Front 2160P + Rear 1080P). With this product, you're equipped with more than just a dash cam — it's your eyewitness on the road, providing high-quality image capture and irrefutable evidence for everything that unfolds from your dashboard's perspective. The ROVE R2-4K DUAL isn't just any driving recorder; it's a smart and high-end solution, designed to be both elegant and durable, offering unparalleled convenience for multi-vehicle use.

PRODUCT OVERVIEW

This product is a leading Ultra HD Digital Vehicle Black Box Recorder, setting the standard in dash cam technology. Featuring an impressive combination of cutting-edge specifications, it's equipped with an ULTRA-HD 2160P @30fps front camera featuring the SONY STARVIS 2 Image Sensor, alongside a Full-HD 1080P @30fps rear camera utilizing the 2MP CMOS Sensor. This combination ensures excellent low light sensitivity and high dynamic range, enabling continuous high-quality video playback. With an F/1.5 Aperture and Super Night Vision Technology, it delivers phenomenal 4K Ultra-HD resolution even in low-light conditions, without the need for relying on infrared sensors. It comes with a free 128GB ROVE PRO microSD Card, advanced built-in 5GHz WiFi offering up to 20MB/s file download speed, built-in GPS, G-Sensor, Emergency Video lock button, Audio recording, Loop cycle recording, 180º video rotation, High dynamic range, 24-HR Auto Trigger Parking Mode, and much more. When compared to most dash cameras, this exclusive product design offers an elegant appearance, is packed with top-rated unique features, records superb unbeatable videos with both front and rear camera, and is very easy to use.

FEATURES

- Dual Channel Dash Cam
- 4K UHD 2160P+1080P (Front+Rear)
- SONY STARVIS 2 Image Sensor
- Free 128GB microSD Card
- Built-In Dual Band 5GHz and 2.4GHz WiFi
- Up To 20MB/s File Download Speed
- 3" IPS Wide Display
- 150° (Front), 140° (Rear) Ultra-wide A+ Viewing Angle
- HDR - High Dynamic Range
- Super Night Vision
- Built-In GPS for Geotagging
- G-Sensor
- H.265 & H.264 Video Compression
- Loop Cycle & Split Recording
- Pre Threaded for Optional CPL Filter (Not Included, Purchase Separately)
- Supercapacitor
- Custom Designed Beautiful Software
- Beautiful ROVE APP for iOS & Android Devices
- Screen Saver
- Status LED ON/OFF Indicator
- Auto Power OFF
- Live Speed
- Live Compass
- USB Type-C Input/Output
- Built-In Speaker & Microphone
- Voice Guidance
- Time, Date, Driver ID, Driving Speed, GPS stamp support
- Lifetime Customer Support
- 1-Year Warranty
- Over-The-Air Firmware Update via iOS/Android ROVE Dash Cam APP
- 24hr Auto Trigger Parking Mode (ROVE Ultimate USB-C HWK Required - Not Included)
- Supports up to 512GB Micro-SD Card (Class 10, U3 Speed Only-We recommend ROVE Ultimate or ROVE PRO Micro-SD Cards)

USER AGREEMENT

By purchasing the ROVE Dash cam, it is assumed that by default you agree with precautions, user warnings, and all the terms & conditions of warranty. If for any reason you do not agree with any of the terms mentioned in this manual, then you may return the product in its original packaging unused within its return window for a full refund.

PRECAUTIONS

Please read this manual very carefully before using the camera or installation and keep it safe for future reference. It will be helpful if you have any questions or encounter any operational problems.

⚠ WARNINGS

Failure to comply with safety warnings and regulations can result in serious injury or death.

Please read and understand all instructions before using this product. If any damage is caused by failure to follow the instructions, the warranty will be voided.

- Do not expose this product to rain, moisture, or water under any circumstances or it will result in external or internal damage.
- Do not put the unit in a damp environment. This device is not designed to be damp-proof.
- Do not try to open the cover or try to repair it yourself. If the accessories for this device have any problem, please contact the seller for assistance.
- Don’t install it where it will block the driver’s view of the road including mirrors or the deployment of airbags.
- Do not place the camera loose on top of the dashboard or in front of the airbags.

- Do not mount the camera where it can be a distraction if it became loose and falls off the windshield while driving.
- Do not expose this device to excessive heat, fire, or dust or use any chemical substance or cleaning solvent to clean this device. Instead use soft moist cloth for cleaning.
- Pay careful attention when cleaning the lens surface. Use a soft, moist cloth to clean the lens to avoid scratches that may compromise video quality.
- Do not operate or install the camera while driving, or attempt to change any settings, etc. Pull off the road first and only do so when it is safe.
- Do not drop, puncture, or disassemble this product.
- Do not use the charger if the cord is broken or damaged.
- Do NOT connect the camera directly to your vehicle's 12V/24V battery. You must use ROVE's provided USB Car charger or hardwire kit (sold separately) to provide power to the dash cam.
- Use only supplied ROVE's USB Type-C Car Charger or ROVE Ultimate USB Type-C Hardwire Kit and power cables to power the ROVE R2-4K DUAL dash cam.
- Keep out of reach of children.
- This is NOT a toy. Keep away from children.
- For indoor use ONLY. This camera is intended to use inside a motor vehicle.

- **Memory Card:** Before inserting the external memory card, make sure to inspect the memory card for physical damage or cracks. Do NOT use the memory card that shows the sign of physical damage or cracks, as it can cause short-circuit and burn a memory card, hence damaging the camera, and if you touch the memory card, it can cause burns while removing it.

- Some countries or USA states prohibit drivers from mounting anything on a windshield or prohibit mounting on certain areas of the windshield. It is the owner/operator's responsibility to mount or use of this device in incompliance with local laws.
- The company is NOT responsible for the loss of any data or your content during operation or in any circumstance.



Getting Started

OUT OF THE BOX INSTRUCTIONS

Please read and understand warnings & safety instructions before operating.

1. Make sure to always keep the camera plugged into the power during its operation as ROVE R2-4K DUAL uses Supercapacitor (NOT an internal battery). You can plug the camera into your home's 110V outlet during set up. For the power, you can use your cellphone's USB charger and included USB Type-C Cable.

   Just make sure that the USB charger has a 5V, 1.5 AMP power output (Max 3.4 AMP), otherwise, the camera will not work properly.

2. Before turning ON the camera, please ensure you insert the memory card. Please insert the included ROVE PRO or a genuine branded Class-10, U3, or higher-speed microSD Card, up to 512 GB max for reliable operation.

   (We recommend ROVE Ultimate or ROVE PRO microSD Card up to 512 GB MAX.)

3. Before first time use, you MUST format the memory card in the camera to prevent any errors and for smooth operation. (See Page 38)

4. ROVE R2-4K DUAL Car dash cam is programmed to turn ON and START RECORDING automatically when it receives power, and STOPS RECORDING, saves the last video file, and turns OFF automatically when power gets disconnected within 1-2 seconds. (i.e., when you start/turn off your car)

5. **Setting Date & Time:** Please set the correct date and time Based on your location under the TIME ZONE SETTING by going to the camera's system settings menu.(See page 39 for details)

6. **How to hide the power cable inside your car's dashboard?**

   Many people on YouTube already demonstrated how and where to hide the power cable inside your car. You can view one of the possible ways on the link, this video is NOT recorded by us.

   https://youtu.be/xwD8Ilk-MHU

   Scan to visit the link

7. **How to transfer videos to PC/MAC?**

   Insert memory cards directly into your PC/MAC to view or download them.

   You can also connect your camera to your PC/MAC with the included short Type-C USB data cable. Then Select Connect as a Flash Drive.

   We recommend VLC Media Player to view your videos. You can get it free at **www.videolan.org**

8. **WiFi:** You can also connect ROVE R2-4K DUAL Car Dashcam to your smartphone directly by using the built-in WiFi feature. (See Page 41)

CAMERA SPECIFICATIONS

Video Resolution	**Front + Rear** 4K 2160P@30FPS + 1080P@30FPS 2.5K 1440P@30FPS + 1080P@30FPS FHD 1080P@60FPS + 1080P@30FPS FHD 1080P@30FPS + 1080P@30FPS
LCD Screen	3 Inch IPS Wide Display
Lens	150° front, 140° rear
Lens Aperture	F/1.5 Front camera and F/1.8 Rear camera
GPS	Built-in GPS Geo-Tagging Support
WiFi	Dual Band 5Ghz & 2.4Ghz WiFi Up-To 20MB/s Download Speed
Video Format	MP4
Video Bit Rate	Low/Standard/Max
Video Encoding	H.265/H.264
Memory Card	128GB Micro SD Card Included, Max Support 512GB (We recommend ROVE Ultimate (Premium Choice) or ROVE PRO (More Afordable) Micro-SD Card)
G-Sensor	Built-in 3-Axis Impact Accelerometer Gravitational Sensor to lock & protect current video.
Anti Flicker	60 Hz, 50 Hz
Voice Guidance	Support
Mobile Apps	Yes, ROVE App for iOS & Android Devices
Video Player	FREE ROVE Dash Cam GPS Player for PC and Mac Available
Loop Recording	Support - seamless loop recording
24hr Auto Trigger Parking Mode	Support (ROVE Ultimate Type-C Hardwire kit Required, NOT Included) 

CPL Filter	Support (Pre Threaded for Optional CPL Filter, Not Included-Purchase Separately) 
Motion Detection	Support
Year/Month/Day/ Hour/Minute/Second	Support
Mic/Speaker	Built-in Microphone for Crystal Clear Audio Recording & Built-in Speaker
Type-C USB Function	1. Storage, 2. Charging, 3. Webcam
Auto Power ON/OFF	Support
Power Interface	5V, 1.5A
Power Reserve	Supercapacitor
Temperature Guideline	Operating Temperature 14°F (-10°C) ~ 131°F (55°C) Working Humidity 15% ~ 60% RH Storage Temperature -4°F (-20°C) ~ 158°F (70°C)

FIRMWARE UPDATE

Firmware updates for ROVE R2-4K DUAL are provided OTA (over-the-air) using the ROVE Dash Cam APP for iOS and Android Devices.

To check/Update Firmware:

1. Please connect your R2-4K DUAL to the ROVE Dash Cam APP using the WiFi Feature. (See Page 41)
2. Click "Firmware Update" from the left navigation menu while staying connected to R2-4K DUAL using WiFi Feature.
3. Please follow on-screen directions to complete firmware updates.

NOTE

Please reach out to customer care if you are having trouble in installing firmware when using the ROVE APP.

PACKAGE CONTENTS





360° Rotational Suction Mount



360° Rotational 3M Sticky Mount



Free ROVE PRO 128GB microSD Card With Adapter



12FT USB Type-C Car Charging Cable



1M USB Type-C Data Cable



6.5M USB Type-C Rear Camera Cable



ROVE DUAL USB CAR CHARGER with Spare Type-C Port



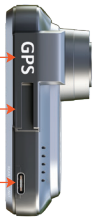
Electrostatic Film For 3M Sticky Mount & Rear Cam



5X Cable Hiding Clip, 2x Spare Stickers, 2x Wet Cleaning Pads & Car Wire Trim Tool

PLEASE NOTE: **128GB Memory Card is INCLUDED. We recommend ROVE PRO or ROVE Ultimate microSD Cards, Up to 512GB**

UNIT STRUCTURE APPEARANCE & BUTTONS



1 Built-In GPS

2 Windshield Mount Latch

3 Rear Cam Port



4 Reset

5 Serial Number Label

6 Mic



7 LED Status Indicator

8 3.0” IPS Wide Display

9 Menu/Back/Mode Button

10 UP, Mute on/off Button

13 Emergency Lock or WiFi on/off Button

11 Rec. On/Off, OK or Confirm Button

12 Down or Switch Front & Rear Lenses



14 TYPE-C USB Power Input/Data Output Port

15 microSD Card Slot

16 Power On/Off or Snapshot Button



17 Speaker

18 Lens

SHORTCUTS & UNDERSTANDING BUTTONS

BUTTON IMAGE	BUTTON NAME	SHORTCUTS/FUNCTIONS
	POWER BUTTON	To Turn ON The Camera: Press power button once.
		To Turn OFF The Camera: Long press power button for 2-seconds.
		Press once while video is being recorded to take a snapshot.
	MENU/MODE	Press Once - to enter/exit menu settings
		LONG PRESS for 2-Seconds - to Switch Modes
	UP	Press Once - to Mute/Un-Mute Microphone while in Video Mode
		Press Once - to Scroll UP while in Any Menu Settings
		Press Once - to Scroll to Previous Video Files while in Play Mode
		Press Once - to Reverse Playback while video is being played in Play Mode
	EMERGENCY LOCK	Press Once - to Lock the Current Loop Cycle Video File while Video is being recorded
		Press Once - to return to the file list display interface when playing the video while in the playback mode
		LONG PRESS for 2-Seconds - to Turn ON/OFF WiFi
	DOWN	Press Once - to switch the front and rear lenses while in Video Mode
		Press Once - to Scroll DOWN while in Any Menu Settings
		Press Once - to Scroll to Next Video Files while in Playback Mode
		Press Once - to Fast Forward while video is being played in Playback Mode
	OK/CONFIRM	Press Once - to Start/Stop Video Recording
		Press Once - to Play/Pause Current Video while in Playback Mode
		Press Once - to Enter/Confirm Specific Settings while in Menu Settings

INSTALLATION

The camera comes with the default settings which allows you to start using your camera right out of the box without changing any settings. Make sure to format the memory card before first time use. You can use either the suction mount or the 3M sticky mount to install the front/main camera. We recommend starting with a suction mount installation first to test it out. Once you find the proper installation place of your liking, we suggest you switch to the 3M sticky mount installation.

Installing and using the suction mount

1. **Installation Position:** Most people will install their R2-4K DUAL next to the rear view mirror and opposite side of the driver. First, Stop the engine where there is some light and in a safe place, and then remove the key.



2. Make sure to clean your windshield from dust particles and evaporated grease from the dashboard surface.
3. Attach the ROVE R2-4K DUAL with the suction mount. Set the camera lens to point forward to the center when installing it.

NOTE

Make sure that the camera's view is not obstructed by any window tint or any other objects.

4 **To Lock The Suction Mount:** Press & hold it tight towards the windshield to remove any air between the suction mount and the windshield. While pressing & holding towards the windshield, turn the LOCKING Knob towards CLOCKWISE to LOCK in place.



Press the suction mount against the windshield and while pressing, turn the LOCKING Knob towards the LOCK position to lock the mount in place.

AVOID THIS

dot-matrix pattern, as suction mount will NOT be able to get a strong suction, hence it will fall down if you mount on top of it.

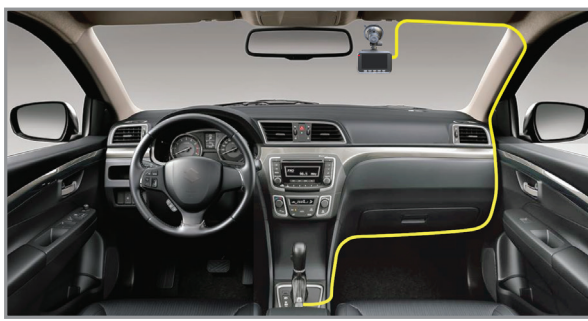
5 Adjust the lens angle of the camera.



6 Connect the 12FT USB Type-C Power Cable for front camera.



7 Hide the power cable inside the trim and use the included cable clips for additional support to organize the cable if needed so it does not interfere with the driver's vision.



⚠WARNING:

If your vehicle has side curtain airbags please be very careful when running any cables along your vehicle windows. Ensure that you are not running a cable that passes any of the airbags as this can prevent the airbags from deploying.

Installing the rear camera

8 Install the rear camera at the rear window. Before attaching the rear camera in the rear windshield, thoroughly clean the rear windshield using included cleaning wipe, and let it air dry.



9 Apply the Electrostatic film to the rear windshield and use a credit card to remove all the air bubbles.



NOTE

If your vehicle have defroster lines in the back, pick a spot where those lines are further away to create a strong bond. Rarely it is NOT possible to apply electrostatic film successfully as some cars might have too rigid and closer defroster lines, and in this case, the electrostatic film will NOT work for you. Most of the time, this is not an issue, as many customers have already applied electrostatic film over the defroster lines successfully.

10 Securely attach the Rear Camera to the rear windshield on top of the static film, and adjust the viewpoint.



11 Now, please connect the rear camera cable in the Type-C port of the rear cam.



12 Plug the other side of the rear camera cable into the rear cam port on the front camera and ensure the cable is firmly connected.



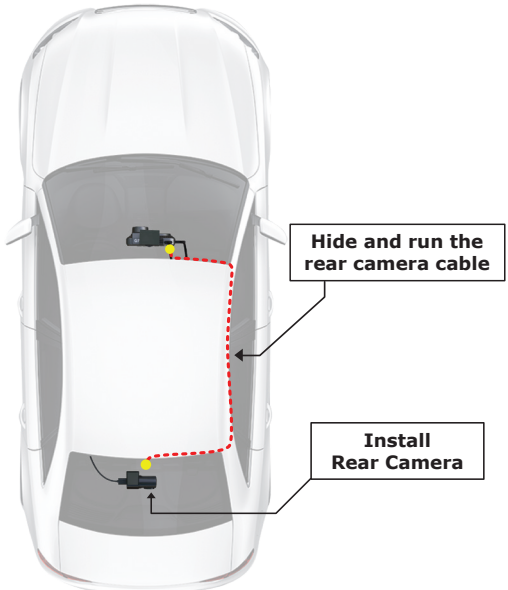
NOTE

Make sure only to plug in the rear camera when the main (front) camera is turned OFF, otherwise it may damage the rear camera.

Make sure to tucking up and routing the rear camera cable neatly.



Rear camera wiring diagram



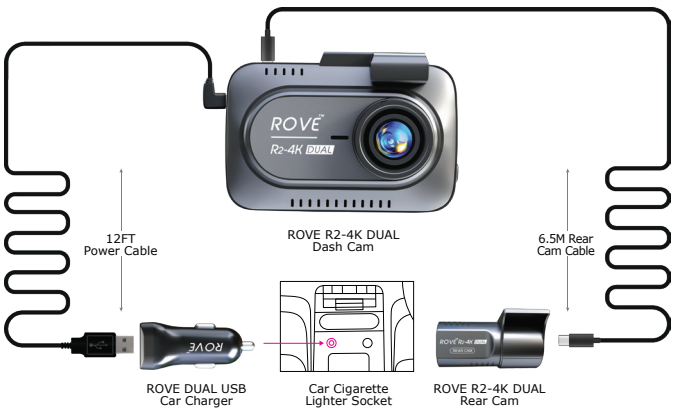
NOTE

The rear camera is NOT waterproof. Therefore it is only designed to be mounted inside the vehicle.

13 Now connect the power cable with the included ROVE's USB car charger into your car's cigarette lighter socket.

Check the complete wiring at a glance diagram below to ensure everything is connected properly.

Wiring at a glance



⚠ CAUTION:

Only use ROVE's USB Car Charger, otherwise the camera may frequently reboot or flicker LCD due to insufficient power.

⚠ IMPORTANT:

Make sure that you align and properly connect the rear camera cable properly. Otherwise, the front/main camera will not be able to detect it.

14 Adjust the lens angle of the front and rear cameras accordingly.

CAUTION:

- Make sure to remove the Plastic Lens Screen Protector from the lens before recording videos. Otherwise, your videos will look blurry and blocked.

15 Insert the microSD card into the dash cam before using it for the first time. (See page 36 to know more about inserting/removing microSD Cards)

16 Now start the car's engine and check if the dash cams are working correctly.

NOTE

After a test drive, check and make sure if all the videos are recorded correctly.

OPTIONAL How to Install The Primary cam with Spare 3M Sticky Mount

1. First, turn OFF the car's engine.
2. Measure and decide the applicable installation area using the dash cam's view finder before you start installing the dash cam. Look at the front camera's video location by temporarily holding the dash cam on the windshield and make sure you like the installation spot of your choice before proceeding. Most people installed their ROVE R2-4K DUAL next to the rear view mirror and opposite side from the driver.

NOTE

Make sure that the camera's view is not obstructed by any window tint or any other objects.

Why use electrostatic film?

We strongly suggest that you use the included electrostatic film when using the sticky mount on your car's windshield. Electrostatic film is designed to give you a clean removal of your 3M sticky mount. If you ever need to remove the 3M Mount, then you can simply peel off the electrostatic film off the windshield for an easy and clean removal.

3. Now thoroughly clean the applicable area using the included cleaning pad and let it air dry.



CAUTION:

Do NOT touch the area after cleaning, or finger grease will not allow the electrostatic film to create a strong bond with your windshield.

4. Now peel off the "Step 1" side of the electrostatic film & apply the exposed static side to the windshield. Apply pressure to the film, use a credit card to slide and remove any air bubbles for the strong bond with the windshield.

⚠ CAUTION:

After you peel off the top film, do NOT touch the applicable side of the electrostatic film with fingers to test it. It is charged with electric particles to create static bond. No need to touch it to test how strong it is. 😄



Avoid this

dot-matrix pattern as the electrostatic film will NOT stick properly over the bumpy pattern.

ⓘ NOTE

When applying the electrostatic film on the car's windshield, avoid the car's dot matrix pattern for the sun block. Ensure all the bubbles are removed properly by using the credit card to slide them out.

5. Now, let's make sure the 3M Mount is fully secured and locked in place.

6 Now, carefully peel off the RED side of the 3M film from the mount side (and again, making sure NOT to touch the glue with fingers). Then gently stick the front camera on the windshield over the electrostatic film. Then use both hands to apply even pressure to the camera from both sides for about 30 seconds. This should create a proper bond between 3M Sticky-Mount & mount to windshield over the electrostatic film, and adjust the view angle accordingly.



IMPORTANT:

Please ensure the camera's field of view (lens) is NOT overlapping the electrostatic film. otherwise, your video will look blurry.

TURNING YOUR CAMERA ON/OFF

AUTO POWER ON/OFF

- **Auto Power ON:** ROVE R2-4K DUAL Dash Cam is designed to turn ON and start recording automatically when it receives power. i.e. when the car engine is started.
- **Auto Power OFF:** The camera is also pre-configured to turn itself OFF automatically within a few seconds when the power gets disconnected, i.e. when the car key is turned to LOCK position.

⚠ CAUTION:

Some trucks/car's 12V cigarette outlet is always HOT, which means it provides constant power even when the car is turned OFF and LOCKED. If this is the case for your vehicle, then the auto ON/OFF feature will not work. And If you leave the camera continuously recording when the car is turned off, then it will drain your car/truck's battery and you might not have enough power to start your car for next time. To Remedy this situation, you can do one of the two options.

- Hardwire your dash cam to your car's fuse box with ROVE Ultimate USB Type-C Hardwire Kit.

  Visit www.rovedashcam.com to purchase one separately.
- Change the connection in the fuse box for your 12V outlet to the socket which only supplies power when the car key is turned to ACC or ON position. (See this example-only video: https://youtu.be/F5VL-pUClnc)

MANUAL POWER ON/OFF

- **To manually turn ON:** Press the power button once.
- **To manually turn OFF:** Press and hold the power button for at least 2-3 seconds

ⓘ NOTE

Be sure to insert the Memory card before powering up the device. Do NOT insert/remove the memory card while the camera is turned ON. Only do so when it is turned OFF.

ABOUT SUPERCAPACITOR

Important Info

First, understand that all dash cams, regardless of which brand the user uses, they either have very small Li-ion batteries or built-in Supercapacitor (i.e., ROVE R1, R2-4K, R2-4K PRO, R3) to save that last video file safely before shutting off the dash cam, in case if the power gets disconnected due to accident and also during daily turning off your vehicle.

Now, all dash cams must be plugged into the power at all times for continuous recording, regardless of which brand you will purchase.

ROVE R2-4K DUAL uses a Supercapacitor instead of a small internal battery.

Main Benefit

The main benefit of using a supercapacitor in a dash cam is that it drastically increases the product's life span compared to internal battery dash cams, which are only good for as long as the internal battery lasts. You can't even replace the internal batteries easily as they are built-in. Therefore super capacitor dash cams last for years and they do not pose a risk of fire compared to Li-ion battery dash cams.

The secondary benefits of a supercapacitor dash cam are as follows:

- Supercapacitor is more reliable because it is more heat resistant compared to Li-ion batteries.
- Supercapacitors don't pose a risk of fire compared to Li-ion batteries.

How does Supercapacitor work?

- A capacitor uses conductive plates with an insulating barrier (dielectric) in between them. The dielectric stops the electrical current entering the capacitor, and this builds up a charge which is stored between the plates.
- It charges faster than a battery. The amount of charge a capacitor can hold depends upon its capacitance or the charge storage capacity.
- ROVE R2-4K DUAL's Supercapacitor will hold the charge for about 2 seconds.

Why Supercapacitor?

ROVE R2-4K DUAL dash cam uses a supercapacitor, making it a unique, reliable dash cam on power consumption and safety. Moreover, it is more resistant to heat, unlike batteries, and it extends the overall product life span of the camera.

HOME SCREEN



Home Screen Status Icons

ICONS	WHAT DOES IT MEAN?
	Video Mode
	Playback Mode
WiFi	WiFi On/Off Indicator
	GPS Indicator
1 min	Loop Recording ON + Number Indicates your selection
HDR	High Dynamic Range (HDR)
AUTO	Exposure Value
G-5	G-Sensor
	Emergency Video Lock
SD	Memory Card Installed
	Memory Card NOT Installed Memory Card Is Defective
Recording	Video Recording Started

ICONS	WHAT DOES IT MEAN?
2160P+1080P	Current Video Resolution
00:02:09	Loop Recording Timer
015:00:44	Total Trip Time
02:35:21 PM	Current Time
01/01/2024	Current Date
	24HR Auto Trigger Parking Mode ON - HWK Connected
	Parking Mode OFF
	Microphone ON
	Microphone OFF
42 MPH	Live Speed
SE	Compass Direction

LED STATUS LIGHT INDICATOR

BLINKING RED LED - Recording Video
SOLID RED LED - Not Recording Video
NO RED LED - Camera is Turned OFF



DIFFERENT SCENARIOS

When Camera Is Plugged Into The POWER		
	Solid	Camera Idle
	Blinking	Camera Recording Video

WHICH MEMORY CARD SHOULD I GET?

ANSWER: We recommend using the included ROVE PRO 128GB microSD Card. If you like to upgrade your storage, we strongly recommend ROVE Ultimate or ROVE PRO Memory Cards. At ROVE, We have higher standards, 1-Year Hassle Free Warranty and we have specifically designed our memory cards to work with our dash cams. In order to save time, money, and hassle in the long run, we simply recommend our ROVE microSD Cards. See a few details below to understand why?



FAQ ABOUT MEMORY CARDS:

1 WHY SHOULD I GET ROVE MEMORY CARDS?

ANSWER:

Memory card is an important part of your dash cam setup. The most important piece of evidence is collected in your memory card which is the video evidence.

- Over the years of experience, we have recommended various memory cards to our customers, because we thought a memory card is a memory card, how bad it can be, especially from big brand names. However, based on our experience since 2015, we have learned that there are too many different types of memory

cards there in the market. Some are cheap, some are expensive, some are fast, some are slow, some are good and some are bad, some will last for long and some will last short duration. There are too many factors to consider when it comes to memory cards, sizes, types, and their quality and reliability.

- Every now and then a customer will reach out to us stating their dash cam didn't record the video of an event that they were involved in. This happens when the memory card has failed too soon and they didn't check. What's the point of having a good dash cam but a cheap memory card will fail you? Then the whole point of investing in a peace of mind dash cam is simply to fail. That is why, to save time, money, and hassle in the long run, we strongly recommend you to invest in a ROVE Ultimate or ROVE PRO microSD Card.

2 SHOULD I ONLY GET THE ROVE MEMORY CARDS?



ANSWER:

NO, you can get any brand memory card as long as it is class 10, U3 speed. We absolutely do NOT recommend Samsung or SanDisk memory cards, based on our experience over the years helping our customers with troubleshooting issues.

However, one thing to note is that if you get another brand card, we can't say anything about its quality and how long it will last. Generally, your return window closes within 30 days of purchase. So, for example, if your other branded memory card becomes bad after three months, etc., then you have to take the warranty with them, and we can't promise how they will help with the replacement process. Therefore, with that said, to save time,

money, and hassle on going back and forth fighting with which card to get, we simply now recommend our ROVE Ultimate or ROVE PRO microSD Cards. At ROVE, we have higher standards. Because in the long run, we all want the camera and memory card to just work without any issues because we need peace of mind, and we have better things to do in life than fight to find a simple memory card.

3 WHAT COULD HAPPEN IF I USE A THIRD PARTY MEMORY CARD?



ANSWER:

Most likely it will work just fine. However here are the lessons learned over the years from helping our customers.

- You might get missing videos after some months of usage of other brand memory cards. Why?

- Because after a certain write cycle, depending on the type of flash memory being used inside, the data cell may become bad sectors. When that happens, the dash cam might freeze up or may have missing videos. Which is something we don't want. Your dash cam may also give you an error related to your memory card stating the memory card speed is too slow or defective memory card etc.

We hope this was helpful and informative in choosing the right memory card. Please feel free to reach out to us if you have any questions or concerns.

INSERTING/REMOVING A microSD CARD

- Must use the included 128GB ROVE PRO or only Brand Name, Class-10, U3, or higher speed microSD Card. Max Support 512GB.
- We Recommend ROVE Ultimate or ROVE PRO Class 10, U3 Speed microSD Card. You can purchase it from Amazon here:

  Search: "ROVE Ultimate microSD Card"
  Visit: www.amazon.com/dp/B0BGW1N9TD
  or
  Search: "ROVE PRO microSD Card"
  Visit: www.amazon.com/dp/B0D2PC2QK8



1 TO INSTALL

Make sure the camera is turned OFF First. Then align the GOLD CONTACTS facing towards the front of the camera (Lens Side). Then insert the memory card halfway in. Then use the fingernail or a paper clip to push the card all the way inward until it clicks and locks in place.

⚠ CAUTION:

Do not insert/remove the microSD card while the camera is turned ON. Otherwise it may cause memory card to be write protected and possible loss of data or damage your memory card. Always remove/insert memory card while camera is turned OFF.

2 TO REMOVE

To remove the microSD card, gently push its edge inward until it clicks, and once it pops out, simply pull it out of the slot.

NOTE

If you experience camera FREEZING or LAGGING or STOPS Recording after few seconds. Then it is the issue of the MEMORY CARD (NOT THE CAMERA ISSUE). - Please Contact US.

ROVE R2-4K DUAL Dash Camera is a High Bit-Rate 4K Video recording device, which requires High Speed Rating SPECIFIC microSD Cards.

Absolutely do NOT buy Sandisk or Samsung Cards. Do NOT Purchase it from third party seller on eBay or any online place. Otherwise they may be a fake cards and will NOT work.

FORMATTING MEMORY CARD

1. Press OK to STOP video recording first or to clear the error message. If you have any on the screen.
2. Please press the MENU button once to enter the Video Settings.
3. Press the MENU button again to switch to the System Settings.



4. Then press the ▼ button to scroll down until you see FORMAT >> Then press the OK button to enter format submenu. >> then press ▼ button to highlight the FORMAT >> Then press the OK button to confirm to format the memory card (The formatting process will be super quick. Now press the MENU button to exit the settings).



Press OK button to make sure your Memory card is formatted.



NOTE

- We recommend that you format the memory card every 3 months to keep it clean for smooth operation.
- Please note that memory cards have their self life span, after so many uses of writing data over and over, eventually they will become inoperable. When that happens, please replace your memory card.

TIME-ZONE SETTING

To set the date & time, choose one of the following options below:

1. You can choose the date and time of your choice manually, go to System Settings > Date/Time and select the date and time of your choice.

OR

2. You can also set the GMT/UTC time-zone value instead, so the camera will set the date and time based on the GMT/UTC value selection when it receives the GPS signal lock automatically.

USA Time Zones - GMT (Greenwich Mean Time) Values

Time Zones	When DayLight Savings Ends ▸ Nov - March	When DayLight Savings Begins ▸ March - Nov
Hawaii	GMT (-10:00)	
Alaska	GMT (-9:00)	GMT (-8:00)
Pacific Time Zone	GMT (-8:00)	GMT (-7:00)
Mountain Time Zone	GMT (-7:00)	GMT (-6:00)
Central Time Zone	GMT (-6:00)	GMT (-5:00)
Eastern Time Zone	GMT (-5:00)	GMT (-4:00)

Go to https://greenwichmeantime.com/time-zone/abbreviations/ to find out your Correct GMT (Greenwich Mean Time) value based on your location outside of the USA

NOTE

The Time zone setting will not change time automatically when driving through different time zones. It will only set the accurate date and time based on the selected GMT timezone.

USING WiFi FEATURE



What is a WiFi Feature?

The WiFi feature has been designed so you can pair your dash camera wirelessly with your smartphone and access your recording instantly from the dash cam. Here you can view, download and share your videos easily with your friends and family. Just like how you would connect your Bluetooth speaker to your smartphone for wireless music play, the same way dash cameras use a WiFi signal (instead of Bluetooth) to pair your smartphone with ROVE R2-4K DUAL.

What is the WiFi Range?

The WiFi signal range is about 10M when there are NO obstructions in the middle. Please NOTE that just like your home WiFi network, you can't have a WiFi signal outside your home, in the same way, the WiFi range is 10M from this small device.



Can I watch the videos or surveillance around my car remotely?

NO. ROVE R2-4K DUAL dash cam is NOT made to broadcast footage over the cloud or internet. It is NOT a cloud or an IP camera and it is NOT meant to do that. You can get live video and footage on ROVE R2-4K DUAL's APP as long as you stay within the 10M range from the dash cam.

Pairing your R2-4K DUAL with your Smart Phone using WiFi

STEP 1: Search & Install the ROVE APP

ROVE DASH CAM

Download on the App Store

ANDROID APP ON Google play

1 Search for "ROVE" in App Store or Google Play Store to find the App and then download and install it on your phone.

NOTE

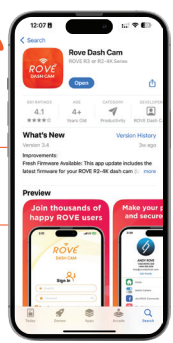
ROVE R2-4K DUAL's WiFi Connection paring does NOT broadcast the internet. The WiFi Connection to ROVE R2-4K DUAL is meant to transfer the data between your phone and the ROVE R2-4K DUAL dash cam.

Scan this QR Code

ROVE DASH CAM

Download on the App Store

GET IT ON Google Play

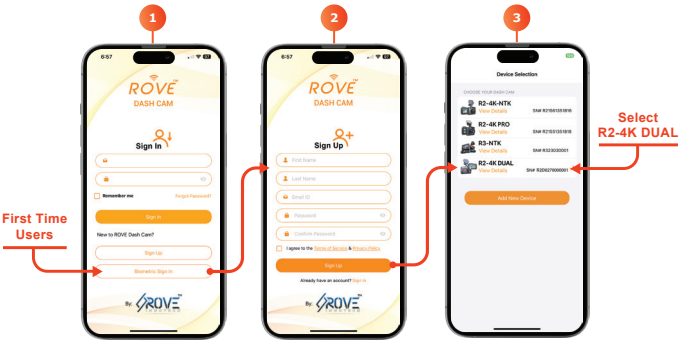


Download the ROVE Dash Cam APP.

STEP 2: Sign Up (For First Time Users Only), Skip this step if you already have an account.

IMPORTANT:

Do NOT Connect your iOS/Android device to R2-4K DUAL's WiFi yet.



FIRST-TIME USERS:

You will need to register and create a free account using ROVE APP, so you can keep your videos and data secure on your device. (To register - you will need internet access, so make sure to stay connected to the internet using your home wifi or cellular data while registering for the first time) - You will only need to do this once. You should stay logged in to your ROVE account mostly unless you get logged out.

If you ever need to sign back into your ROVE account again, then you will need to be connected to the internet first, then login to your account before pairing with ROVE R2-4K Dual's WiFi.

STEP 3: Turn the WiFi ON from the R2-4K DUAL's Settings



CONNECTING R2-4K DUAL's DASH CAM WITH SMART PHONE:

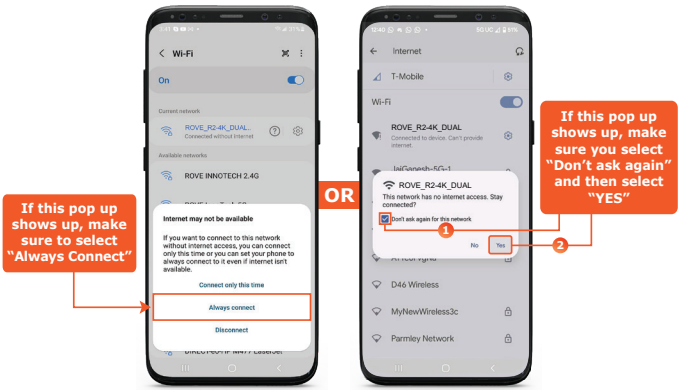
1. **TURN ON WIFI FROM THE CAMERA:** Long press the Emergency LOCK BUTTON for 2 seconds or go to the camera's SYSTEM SETTINGS to turn ON the WiFi feature.
2. Now open the ROVE app on your smartphone, and click on the "Connect to ROVE Dash Cam WiFi" button."

   This will open up your smartphone's WIFI setting now; look for a WiFi network named "ROVE_R2-4K-DUAL_******"on the lists.
3. Join the "ROVE_R2-4K-DUAL_******" network using a default password displayed on your dash camera's screen. (Default Password: 12345678)
4. Once your smartphone is connected to the ROVE Dash Cam WiFi, go back to the ROVE APP and choose your dash cam model, then click proceed to be connected. You should see the live video feed from the camera on the main home screen of the ROVE APP.

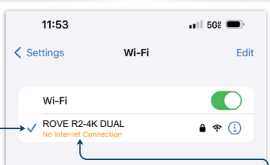
   Now you are all set to access your recording from the ROVE app and explore it further.

For Android phones:

There is one extra step you will have to take for the first time. Once you connect to ROVE R2-4K DUAL WiFi, it will say "No Internet", which is fine. Wait about 10-15 seconds until you see the below pop up or notification. You just have to tap on the pop up notification that will show up in few seconds to select that you still want to stay connected even though there is NO Internet. Once you select this OK, you are set to go. Please contact us if you need any help.



For iPhone:



For iPhone, it will display or show **"No Internet Connection"**, which is normal and you can ignore this message. As ROVE R2-4K DUAL does NOT provide the internet, so the iPhone will show this message. You are only making a connection between your iPhone and R2-4K DUAL using the WiFi. Once you see this ☑ Blue Check Mark, you are connected to the ROVE R2-4K DUAL'S WiFi. You can simply proceed to open the ROVE Dash Cam APP at this point.

UNDERSTANDING 2 – CAMERA MODES

ROVE R2-4K DUAL has 2 different camera modes:

1 VIDEO MODE **2 PLAYBACK MODE**

TO SWITCH MODE:

Press & Hold MENU button for 2-seconds.

NOTE
- Each Mode has their own separated Menu settings.
- System Settings are common between all the two Modes.

1. VIDEO MODE:



Video mode lets you record live videos and store them on the installed microSD card.

While in the Video Mode:

- Press OK button to Start/Stop video recording manually.
- Press button Once to take a snapshot.
- Press & Hold button to switch the front and rear lenses.
- Press button to Turn Off/On LCD. (Camera still stays ON if you use this button - **Red** LED indicates camera is still ON)
- Press MENU button to enter Video Setting.
- Press while video is being recorded to manually lock the video, so it will not get deleted by loop cycle function.
- Press & Hold to turn ON/OFF WiFi.

2. PLAYBACK MODE:



Playback mode lets you play your Video file or photos. It can even let you delete or lock any videos while viewing it.

While in the Playback Mode:

- Press OK button to Play/Pause Video.
- Press ▲ button to scroll to Previous (<) video file.
- Press ▼ button to scroll to Next (>) video file.
- While Video is being played, press ▼ button to FF Video playback up to 8x.
- While Video is being played, Press ▲ button to REVERSE FF Video playback up to -8x.
- Press MENU button to enter Playback Setting Menu.
- Press & Hold ▲ to turn ON/OFF WiFi.

Playback Your Recorded Videos

There are 3 different ways you can access your videos.

A. Directly On The CAMERA by switching to the PLAYBACK MODE

1



You can do this by pressing and holding the MENU button for two seconds so it will switch from Video mode to Playback mode.

2

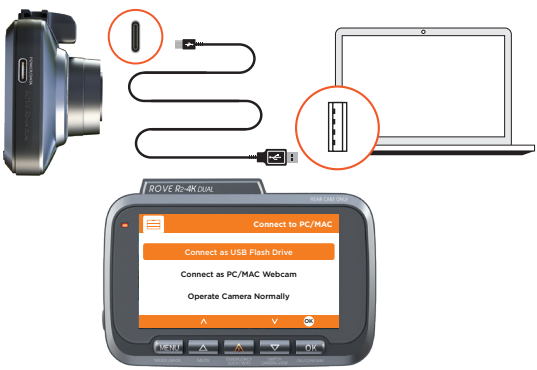


Use the on-screen navigation button and use the ▼ / ▲ button to scroll your videos.

Press OK to play video. Press MENU to go back to video list.

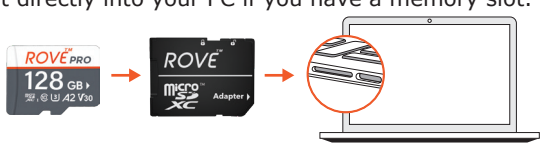
B. On PC/MAC

To play on your PC/Mac, simply connect the camera using included short USB Type-C Data cable and choose the Connect as USB Flash Drive on the camera when this message pops up.



Or,

You can simply remove the memory card from the camera and insert it directly into your PC if you have a memory slot.



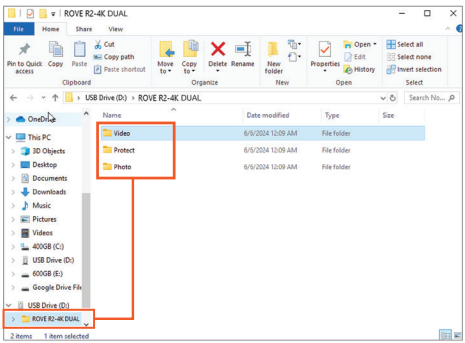
Then find the added memory card drive on your computer and then simply double-click on the video to play them.

Then simply go to MY PC or Folder, then look for the added flash drive. You should be able to see drive "D" or "E" or another name depending on the pre-installed hard drives.

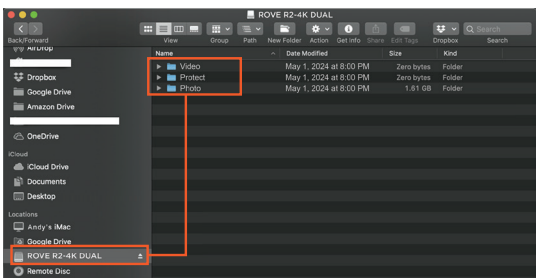
Once you find the added flash drive, double-click on it, then you will see the R2-4K DUAL folder where you will find your unlocked videos.

You will also see a folder named "Protect" which means read-only, where you will see your locked videos.

A. PC

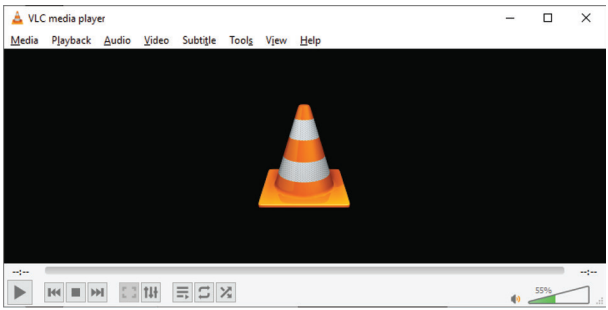


B. MAC

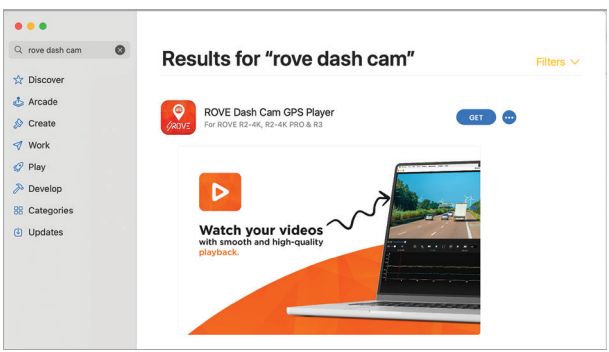


Correct Video Player To Play 4K VIDEOS

We recommend VLC Media player. You can get it free at www.videolan.org



You can also utilize our ROVE Dash Cam GPS Player. Simply visit the Mac App Store, search for 'ROVE Dash Cam,' and download the **ROVE Dash Cam GPS Player**.





ROVE Dash Cam GPS Player

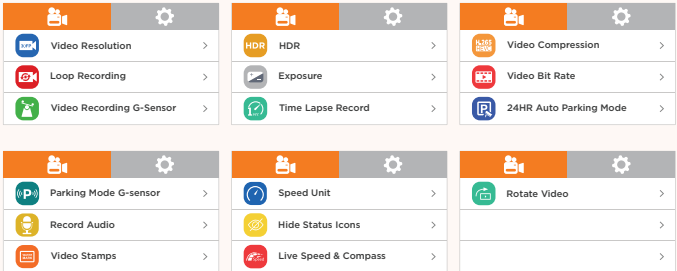
C. On Smart Phone

To play on Smart Phone, simply turn on WiFi first from the camera, then connect the ROVE R2-4K DUAL WiFi by entering the default password "12345678"

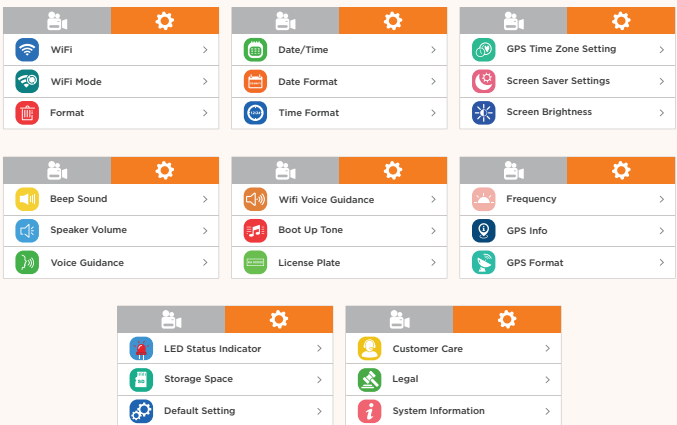
Once connected, simply open the correct ROVE APP for your model. Please note that the ROVE R2-4K DUAL model uses "ROVE Dash Cam" App only. So make sure you are using the correct App And make sure to select the correct model from the left navigation menu within the APP.

(For more step-by-step instructions about the WiFi features see page 40 for details)

VIDEO SETTINGS



SYSTEM SETTINGS



UNDERSTANDING CAMERA SETTINGS

Short press MENU Key to enter the setting interface after power on. In this case, the video recording will be stopped and you get the Settings Menu.

Attention: To **EXIT** the Settings Menu, Press the MENU button to go back.

VIDEO SETTINGS

VIDEO RESOLUTION

Here you can set your preferred video resolution. Higher the video resolution, improved the video quality and larger the file sizes, hence it takes more storage space.

In this menu, you can also select the combination of Resolution you want to use for your front and rear camera.

- 4K 2160P@30FPS + 1080P@30FPS
- 2.5K 1440P@30FPS + 1080P@30FPS
- FHD 1080P@60FPS + 1080P@30FPS
- FHD 1080P@30FPS + 1080P@30FPS

LOOP RECORDING

This feature allows the camera to continuously record loop by loop so it can delete the oldest video files automatically when the memory card becomes full so you don't have to manually delete them. This feature will split each video file to an appropriate length based on your selection.

- OFF- 4GB MAX
- 1-MIN (Default), 3-MIN, 5-MIN, 10-MIN

OFF: When you choose off, the camera will continue to record each file 4GB in size until the memory card becomes full and then it will give you a "Card Full" message. It will NOT record any further until you either delete files to make room or format the memory card.

IMPORTANT:

The logic for the loop recording feature is designed as follows:

Let's say the total capacity of the memory card is 100%. When the normal + event videos reach > 90%, the dash cam will start the loop recording.

The pre-allocation of directory space for normal and event videos is as follows:

Normal Videos = 60%, Event Videos = 30%

If the number of event files is less than 30%, then the normal video files can occupy the unused space of the event allocation until it reaches 90%, and then the loop recording begins.

When more event (Locked) video files are present, the space of the event directory is reserved for a maximum of 30%.

If the event video files reach their max allocation of 30%, then the camera will also delete your oldest locked video to add that new latest event video.

Therefore it is important to understand that you can't lock unlimited videos to your memory card. If you lock any videos files that are important, please note that even lock videos will be deleted similarly to the loop cycle function with the oldest file first so if an event occurs and if your locked video allocation is exhausted, to ensure proper room for a new locked event video in case of a real event. We recommend that you download any locked video ASAP to prevent it from being deleted.

VIDEO RECORDING G-SENSOR

G-Sensor is a 3-axis impact gravitational accelerometer which is designed to detect physical and gravitational forces on the camera.

While Video is Being Recorded: In the event when G-Sensor is triggered due to physical or gravitational impact force on the camera, the current loop cycle length of the video file will be locked so it will NOT be deleted by the normal loop cycle function.

CAUTION:

In the event of an accident please make sure you retrieve your footage before using your camera again to prevent the loss of important video files due to the loop cycle function, in case the force was minor and did NOT trigger the G-Sensor to lock the video file automatically. It is a best practice and recommended to you to retrieve all necessary video footage after any event of an accident before using your camera to prevent the loss of vital video files.

HDR

High Dynamic Range (HDR) enhances exposure by merging overexposed and underexposed images into a single, robust representation with a broader range of lighting and increased image depth.

- ON (Default)
- OFF

EXPOSURE

This feature allows you to adjust the brightness of a captured image.

- 0.0 (Default)
- -2, -1.7, -1.3, -1.0, -0.7, -0.3, 0.0, +0.3, +0.7, +1.0, +1.3, +1.7, +2

TIME LAPSE RECORD

Time Lapse recording mode allows you to capture specific images per second at a much lower rate. So when you combine and play those images at the normal 30fps rate, everything seems to be moving faster in time-lapse.

- OFF
- 4 frame/second (Smoother)
- 2 frame/second (Smooth)
- 1 frame/second (Normal)

NOTE

Enabling this feature will keep it activated at all times, even after the camera restarts, resulting in time-lapse speed (faster playing) for your videos. If you prefer regular speed playback, please ensure to turn this feature OFF before powering off your camera.

VIDEO COMPRESSION

H.265 HEVC = High-Efficiency Video Coding - This advanced compression algorithm improves video quality with a smaller file size compared to H.264.

- H.264 (Default)
- H.265

⚠WARNING:

H.265 playback can be laggy and might NOT play smoothly if your PC/MAC or other devices are NOT compatible with H.265. So if you don't have advanced new devices, then keep this setting at H.264 (Default).

VIDEO BIT RATE

Video bitrate represents how much data is used to record each second of video.

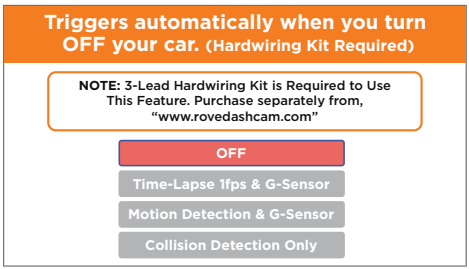
Higher bitrates mean better video quality but larger file sizes. This requires specific high-speed memory cards and longer download times when using the ROVE APP due to the large file size.

Lower bitrates save space but may reduce video quality. It's important to find a balance that suits your needs.

- Low
- Standard (Default)
- Max

24-HR AUTO PARKING MODE

ROVE has custom-designed its parking monitor for the best user experience and automation. Please see the details below.



⚠ CAUTION:

Never connect the dash cam directly to your car's 12/24V battery by modifying wires. The dash cam is not designed to handle direct current from the battery. It needs a step-down circuit in the middle (Hardwire Kit) to adjust the current required by the dash cam. You must connect the dash cam using the ROVE Ultimate USB Type-C Hardwire Kit and connect it to the car's fuse box (NOT to battery terminals directly).

ⓘ NOTE:

The camera has a built-in temperature sensor. During sunny afternoons and direct sunlight with a locked car, the temperature inside the car turns into a greenhouse effect, and depending on your geographical location the temperature can exceed the recommended guidelines for this product. When this happens, the camera will automatically shut down to prevent damage to the unit to ensure longer product life.

ROVE R2-4K DUAL & PARKING MODE HOW DOES IT WORK?

ANSWER ROVE R2-4K DUAL has a built-in Parking Mode Feature, allowing you to record in the following two ways after parking your vehicle.

Before we go into details, please NOTE that the ROVE Ultimate USB Type-C Hardwire Kit is required for the parking mode to work.



WHY DO I NEED TO PURCHASE AN ADDITIONAL HARDWIRE KIT?

ANSWER

1. To utilize a 24-HR parking monitor, you need to provide power to your dash cam while away from your car. Hardwiring your dash cam to your car's fuse box is necessary to give power to the dash cam. ROVE Ultimate USB Type-C Hardwire Kit is NOT Included in the packaging. Purchase separately.
2. We understand that not all users prefer the hardwire kit for their specific installation needs. By not including it in the default packaging, it allows us to keep the cost down and minimize electronic waste mitigating the environmental impact associated with unnecessary accessories.
3. The hardwire kit also monitors battery voltage, and it is designed to cut off power to the dash cam when it detects low voltage to preserve enough power in the car’s battery for you to start your car next time.

HOW DOES THE "TIME-LAPSE + G-SENSOR" PARKING MODE WORK?



Time-Lapse 1fps & G-Sensor: (See how this feature works)

1. When this feature is set to ON and ROVE Ultimate USB Type-C Hardwire Kit is installed properly.
2. Then, when you turn OFF the car's engine and turn the key to the lock position.
3. Then the camera will STOP the continuous video recording and it will go into the timelapse 1fps recording mode automatically.
4. Now while this timelapse is being recorded, If someone hits your car and the impact reaches the set G-Sensor level, then the camera will stop the timelapse video > then it will start to record a 1-min continuous video, save & lock that video in the EVENT folder > then return to recording the timelapse 1fps.

NOTE

(When the Parking Mode got activated, the camera will give you a voice alert stating "Parking Mode got activated while you were away" when you turn ON your car the next time. If you hear this, you should check the locked videos to see what happened.)

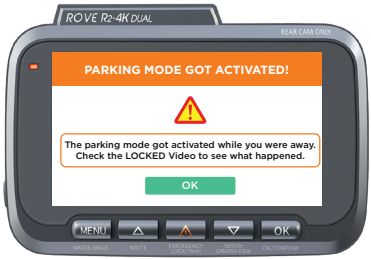
5. Now when you start your car for the next time, the camera will automatically STOP the timelapse 1fps & G-Sensor parking mode. Then it will go into normal video mode automatically to start the continuous video recording.

HOW DOES THE "COLLISION DETECTION ONLY" PARKING MODE WORK?

ANSWER When you turn OFF your car's engine, and if the Hardwire Kit is installed properly > then the dash cam will -



1. STOP the Continuous Recording from the normal video mode.
2. Then the R2-4K DUAL will turn OFF. However, it actively senses any impact while the car is turned OFF.
3. Now, if someone hits your car & if the impact reaches the set "Parking Mode G-Sensor" level, then >> the dash cam will turn ON and START RECORDING 1-min video. Then it will LOCK & SAVE that video in the events folder and turn OFF.
4. Then the dash cam will be actively sensing any impact until someone hits your car again (which we hope you won't get hit twice in one day - LOL) or until you start your car's engine.
5. When you start your car's engine for the next time, the dash cam will give you an alert stating that the "Parking Mode Got Activated While You Were Away" (You will hear an audible alert & also an on-screen pop-up).



6 You will need to tap the OK button on the screen to acknowledge that pop-up. Then you can check and see what happened by going through the last event video.

7 However, let's say No One hits your car, and if the "Parking Mode G-Sensor" didn't get activated, you will NOT get any parking mode alert. >> In this case, when you start your car's engine for the next time, the dash cam will switch to the normal continuous recording mode, and it will say "recording started" and the Parking + Timelapse icons will disappear. This means that now your dash cam is in normal continuous recording mode, which is what you want.

8 If you need to watch the activated parking mode videos, you will find them under the Events folder.

NOTE

- The parking mode time-lapse videos will NOT be saved under the events folder. You can find them under normal video folders.
- While in parking mode, the GPS and WiFi are designed to turn off automatically to save power while in the parking mode.

HOW DOES THE "MOTION DETECTION & G-SENSOR" PARKING MODE WORK?



Motion Detection & G-Sensor: (See how this feature works)

1. When this feature is set to ON and ROVE Ultimate USB Type-C Hardwire Kit is installed properly.
2. Then, when you turn OFF the car's engine and turn the key to the lock position.
3. Then the camera will STOP the continuous video recording and it will go into the motion detection mode and the camera will stay ON and idle, but LCD will be off after some seconds.
4. Now the camera will only record video when it detects motion in front of the FOV of the camera and then it will record until there is no more motion is detected.
5. Now while the camera stays in Motion Detection mode, If someone hits your car and the impact reaches the set G-Sensor level, then the camera will stop the motion detection mode > then it will start to record 1-min continuous video, save & lock that video in EVENT folder > then return back to the motion detection mode.

NOTE

(When the Parking Mode got activated, the camera will give you a voice alert stating "Parking Mode got activated while you were away" when you turn ON your car the next time. If you hear this, you should check the locked videos to see what happened.)

6. Now when you start your car for the next time, the camera will automatically STOP the motion detection & G-Sensor parking mode, and it will go back into normal video mode automatically to start the continuous video recording.

WHAT LEVEL SHOULD I SET MY "PARKING MODE G-SENSOR" SETTING AT?

ANSWER This depends on your various factors and your personal preference. We will discuss a few most common scenarios to educate yourself.



For the Parking Mode G-Sensor setting, you can select between 1 to 9 different Gravitational Sensor (G-Sensor) levels.

Where 1 = Lowest (Smallest) Impact Detection and 9 = Higher (Larger) Impact Detection.

- 1 = Triggers at Lower Impact
- 2
- 3
- 4
- 5 = Triggers at Medium Impact
- 6
- 7
- 8
- 9 = Triggers at Higher Impact

1 If you set your parking mode G-Sensor at 1, the dash cam will be extremely sensitive. Even the lowest vibration, such as hard tapping the LCD or Closing the Car's Door, will activate the R2-4K DUAL dash cam.

You would want this if you want your dash cam activated with the slightest hit to the car.

However, there are downsides to this. Your dash cam will activate even when you close the car's door while exiting your vehicle. This will give you false parking mode got activated alerts. However, the positive side of this is that your car/dash cam is sensitive to minor bumps/hits to your car.

2 If you set your parking mode G-sensor at just the right setting, where it will NOT trigger the false alerts by closing your car's door, you will NOT get false signals. Then when you do get alerts, you know to check the last locked videos to see what happened because you didn't anticipate the false alerts.

However, the downside is that your dash cam is not extra sensitive to more minor bumps/hits because you have set your G-sensor to a higher level so that you may miss some smaller bumps/hit events.

However, there is one more positive side; if you have used time-lapse + collision detection, you should have your parking mode time-lapse videos saved in normal folders. So if you suspect someone might have hit your car or something, then you can still always go look at the time-lapse videos. We hoped this made sense and was helpful.

RECORD AUDIO

ROVE™ R2-4K DUAL has a built-in microphone to record audio with video. You can choose to record mute video by choosing OFF. You can also press the UP button to mute/un-mute while the video is being recorded.

- ON (Default)
- OFF

VIDEO STAMPS

This stamps menu allows you to choose your choice of stamps for the bottom of the video. By default, they are all ON.

- Date/Time Stamp
- Speed Stamp
- GPS Location Stamp
- Logo Stamp

NOTE

1. By turning OFF Speed stamps the camera will NOT attach the speed-embedded data with the video. So when you play your video on GPS Player, you will NOT see any speed associated with the video.
2. By turning OFF GPS Location the camera will NOT attach the GPS Coordinates or the Driving Route Location with the video. So when you play your video on the GPS Player, you will NOT see any GPS tracker on Google/Baidu maps.

SPEED UNIT

You can choose desired speed option stamp to be displayed and recorded on video stamp based on your selection.

- KM/H
- MPH (Default)

HIDE STATUS ICON

This feature allows you to hide all icons on the LCD screen of the camera so you can have a full view of the image.

- OFF (Default)
- 1-minute
- 3-minutes
- 5-minutes

LIVE SPEED & COMPASS

This feature allows you to see LIVE SPEED & COMPASS Direction on the HOME SCREEN.

- Live Speed
- Compass

NOTE

By turning off this feature, it does NOT turn OFF the Driving Speed or the GPS metadata. To turn OFF speed stamps, see the "VIDEO STAMPS" menu.

ROTATE VIDEO

This feature will allow you to flip your video 180° so you can still have the correct side of the image when the camera is mounted upside-down.

- OFF (Default)
- ON

PLAYBACK SETTINGS

To Enter Playback Setting

1. Press & Hold MENU button two times to enter Playback Mode.
2. Press MENU button ONCE to enter Play Settings.
3. Press ▼ button to access Play settings.
4. Now use ▲ or ▼ buttons to scroll through > then press OK button to enter particular setting > then press OK button again to confirm that setting and exit to Play setting's menu.

DELETE

This menu will allow you to delete the current video or Delete All.

- Delete Current (Delete current video file on LCD)
- Delete All (CAUTION: This will Delete Entire Video & Photos from memory card - Except the protected files)

NOTE

To delete a locked or protected video, you need to unlock it first by going to the Playback Settings>Protect.

PROTECT

This feature will allow you to make desired changes to saved video & photo files on the memory card.

- Lock Current • Unlock Current • Lock All • Unlock All

SYSTEM SETTINGS

WIFI

This feature will allow you to turn the WiFi broadcast ON from the camera so you can connect your phone with ROVE R2-4K DUAL Dash Cam to access videos, photos, and settings.

- OFF
- ON - Once (WiFi will turn off at restart)
- Always On (WiFi will always stay on even after restart in the background)

WiFi Name SSID ▶	ROVE_R2-4K-DUAL_******
Password ▶	12345678

You can also turn WiFi ON by pressing & holding  button for 2 seconds.

(To View/Save Video Files to your Phone via WiFi See Page 40)

WIFI MODE

WiFi Mode allows you to choose the wifi band. The 2.4GHz band provides coverage at a longer range but transmits data at a slower speed. The 5GHz band provides less coverage but transmits data at a faster speed. We suggest using a 5GHz band unless your iOS/Android device is an older version and can only support 2.4GHz, which is very rare currently.

- 2.4GHz
- 5GHz (Default)

FORMAT

This feature will allow you to format an inserted memory card, all the data will be deleted.

- Cancel
- Format

DATE/TIME

Here you can choose the date and time of your choice manually.

NOTE

The GPS Time Zone will be automatically set to OFF if you manually set the date and time.

DATE FORMAT

This feature allows you to select the date format.

- MM/DD/YY (Default)
- DD/MM/YY
- YY/MM/DD

TIME FORMAT

This feature allows you to choose the clock time format to 12 or 24 hours.

- 12-Hours (Default)
- 24-Hours

GPS TIME ZONE SETTING

Here you can choose your desired or local time zone setting based on UTC/GMT value. Please make sure to adjust the time zone setting during standard vs. daylight savings time.

- OFF (Default) • UTC/GMT -12:00 to UTC/GMT +12:00

To find your correct UTC/GMT time zone setting, please visit :
https://greenwichmeantime.com/time-zone/usa/(See page 39)

SCREEN SAVER SETTING

Live Video Always ON: This will keep the video LCD ON all the time.

Screen Saver ON After 1-Min: This will turn ON the screen saver as shown in the photo below after 1-min if NO button is pressed.

LCD OFF After 1-Min: This will only turn OFF the LCD after 1-min if NO button is pressed (NOTE only the LCD Will turn OFF, the camera still be operational)



SCREEN BRIGHTNESS

This menu will allow you to set the screen brightness.

- High
- Medium (Default)
- Low (Recommended to Prevent Heating)

BEEP SOUND

This feature allows you to turn ON/OFF camera button's beep sound & any voice confirmation.

- OFF
- ON (Default)

SPEAKER VOLUME

This feature allows you to set the volume level for the button's beep volume, playback video volume, and boot up chime volume through the camera's internal built-in speaker.

- Low
- Med
- High (Default)
- OFF

VOICE GUIDANCE

Voice guidance is the female voice feedback you receive on your camera. If you prefer to not receive voice feedback, you can set this feature to OFF.

- OFF
- ON (Default)

⚠ CAUTION:

ROVE R2-4K DUAL has an important failsafe voice feedback if the camera is not recording the video when it is turned ON and sitting idle. Therefore the camera will remind you every 30 seconds that it is NOT recording the video. If you hear this feedback, then you should check and investigate to see why your camera is NOT recording the video. This prevents the missed video on an accident when you need the most because your memory card can fail after a certain life cycle and if you don't check daily, you could possibly not know that the camera was only turned ON but was not recording the video. Therefore to avoid this failure, we strongly suggest that you keep the Voice Guidance turned ON.

WIFI VOICE GUIDANCE

ROVE dash cams are equipped with a WiFi feature that can stay ON at all times. Additionally, there is a voice guidance function that notifies users when the WiFi is connected or disconnected. However, some users find this voice guidance to be annoying. By turning OFF this feature, you will only disable the voice guidance for WiFi connection and disconnection, while all other voice guidance functions will remain unaffected.

- OFF
- ON

BOOT UP TONE

This feature allows you to choose the camera's boot-up chime to be set to ON/OFF.

- OFF
- ON (Default)

LICENSE PLATE

This feature will allow you to insert a custom vehicle ID or Driver ID to be stamped on video.

- Use / button to select desired character.
- To add more characters' press MENU button to switch to next character.
- When Done press OK button to confirm & exit.

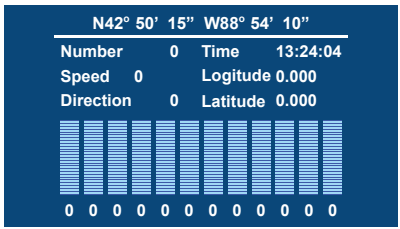
FREQUENCY

Here you should choose the frequency accordingly to your power supply specification used in your country based on your geographical location.

- 60 Hz (USA – North America)
- 50 Hz (Europe – Most Asian Countries)

GPS INFO

This feature allows you to see your current geographical location in Latitude & Longitude.



GPS FORMAT

Here you can choose the GPS format as Decimal or Degrees, Minutes, Seconds.

- Decimal Degrees • Degrees, Minutes, Seconds

LED STATUS INDICATOR

This feature allows you to choose the camera's LED status indicator to be set to ON/OFF.

- OFF
- ON (Default)

STORAGE SPACE

This feature will allow you to check the storage of inserted memory card into the camera.

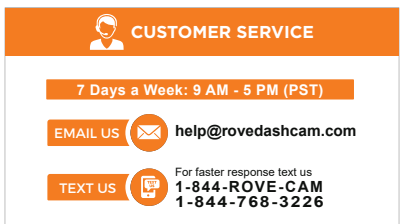
- Total: (Memory Card Capacity)
- Free: (Free Space in memory card)
- Event: (Occupied space from Locked/Protected Video Files)
- Movie: (Occupied space from normal video files)
- Picture: (Occupied space from photo images)

DEFAULT SETTINGS

Here you can restore all the settings to the factory default settings.

- Cancel
- OK

CUSTOMER CARE



LEGAL

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FCC ID: 2A3IW-R2-4K DUAL **IC:** 30265-R24KDUAL

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.

SYSTEM INFORMATION

Here you can check the current firmware version installed on your camera. You will need this information in the future to check if a newer version of firmware is available.

Please visit: **www.rovedashcam.com** For the latest firmware upgrade instructions. Firmware updates are provided for R2-4K DUAL using iOS or Android APP. (See page 13)

RESETTING THE CAMERA

Resetting Hardware & Software are two different things.

1. Reset The Hardware/Camera:

Press the RESET Button at the bottom of the camera once. If the camera is freezing or stuck where no buttons will respond, then please press the RESET button only ONCE at the bottom of the camera with a paper clip or tip of the pen while it is turned ON. This will restart the camera.

2. Setting Firmware/Camera to the default settings:

If you get stuck with any settings and if you would like the camera's all settings to be set back to the factory default settings, then simply go to System Settings > and then scroll down until you see the DEFAULT settings then set them to default settings to reset all the settings.

GPS player Software Installation (PC/MAC Only)

(Only suitable for the units with GPS function)

To download FREE GPS Player, visit www.rovedashcam.com

Why GPS Player? What are the features?

Check G-Sensor data

Play back your recorded videos

To see the Exact GPS route with the video on google maps

Check driving speed

Check driving direction (i.e. N, S, NW, SE, etc.)



Using the GPS Player

- Please open the customized video player and install it for the first time use.

Click to browse on your added drive and select the video file that you prefer to play in the player.

1	**Date & Time**
Shows Date & Time of video was recorded	
2	**Past Viewed Files**
These are you previously viewed files. Click on to view them again.	
3	**Driving Speed**
This is where your driving speed will be displayed.	
4	**Playback Controls**
• Reverse • Play • Stop • Fast Forward	
5	**GPS Coordinates**
These are you coordinates longitude and latitude recorded by GPS Geo Tagging Device.	
6	**Playback Time**
This is where your video play back time is shown.	
7	**Volume Control**
Slide Right or Left to Increase or Decrease Volume	
8	**G-Sensor Indicator**
This is where you can measure camera movement that is caused and recorded by G-sensor force. I.e. when vehicle hits pot-hole or bump you can see it here.	
9	**Vehicle Speed**
Speed of vehicle recorded at specific point of time.	
10	**Map Location**
Maps showing vehicle's driving route recorded by GPS Geo Tagging Device based on coordinates.	
11	**Vechile Direction**
Direction at vehicle was driving at specific point of time.	

ONE-YEAR LIMITED WARRANTY

We at ROVE™ would like to provide One (1) full year of limited warranty for your product from the date of purchase to be free from defects in materials and craftsmanship.

⚠ IMPORTANT:

Please save your warranty/serial number card as a piece of evidence. Proof of original purchase is required for any warranty service. (Online order receipt is also accepted)

Warranty Terms Conditions

1. The warranty is confined to the first purchaser of the product and is not transferable.
2. Service/Repairs during the warranty period shall be carried out by company-authorized personal only.
3. It is the responsibility of the purchaser to bring the product to the authorized service center at the purchaser's cost and risk.
4. The company will not be liable for any hardware and/or data loss arising from the use of any third-party software whether downloaded or otherwise.
5. In the event of repairs and/or replacement of any part(s) of the product, this warranty will remain in force only for the unexpired period of the warranty.
6. In case of any physical damage to the product and/or misuse detected by the Authorized service center personal, the warranty be void and service/repairs will be done on a chargeable basis only and subject to the availability of parts.
7. The company's obligation under this warranty shall be limited to repair or providing replacement of part(s) only. The maximum claim(s) if entertained by the company will be subject to the maximum retail price of the product purchased or the purchase price, whichever is lower, and on production of original proof of purchase.

   During the warranty period in the event of any unforeseen circumstances where spares not available a commercial solution in

lieu of repairs will be calculated based on company's prevailing depreciation rules and the same will be binding on the purchaser.

The replacement unit will be either new or refurbished based on the availability. We reserve the right to even upgrade you to the newest version be it similar or not if we have discontinued the current model.

LIMITATIONS/DISCLAIMER OF WARRANTY/LIABILITY

1. The company shall not be liable/responsible directly or indirectly for any claim for compensations, damages, any losses, etc. Under this "Limited Warranty" due to inconvenience, loss of time, loss of profits, loss of business opportunity, loss of data, loss of goodwill, work stoppage, any personal and/or commercial loss, compensation for mental agony, anxiety, etc. Resulting from the use of the product(s) or any direct or indirect loss of any nature whatsoever (incl. any personal injury or death).
2. Except for the warranties set forth herein, of the company disclaims all other warranties, expressed or implied or statutory, including but not limited to the implied warranties of merchantability or fitness for a particular purpose.
3. The maximum liability of the company under any circumstances shall be limited to an amount equal to the invoice amount paid by the purchaser to the company or a company-authorized reseller for the Product(s).
4. Company shall not be liable directly or indirectly for any claim for compensation if the Product has been exposed to moisture and/or dampness and/or extreme thermal and/or extreme environmental conditions or to rapid changes in such conditions, to corrosion, to oxidation, to spillage of food or liquid or to influence from external chemical products.
5. ROVE™ (hereinafter referred to as "the company") guarantees to the purchaser that this product carries a warranty for the period mentioned above, commencing from the date of purchase.

SAFETY & LEGAL ASPECTS:

All rights are reserved. Duplication, transfer, distribution of the contents herein in any manner without the prior written permission of ROVE™ is prohibited. ROVE™ reserves the right to add, modify or delete, any of the contents herein or withdraw this documents at any time without prior notice and without assigning any reasons thereof. For detailed terms and conditions refer www.rovedashcam.com

- Please check your local or state laws before using in car recording device. It is user's responsibility to comply with all local and state laws.
- ROVE™ R2-4K DUAL Dash Cam must be placed at proper location so it does not obstruct your view while driving.
- Do not use or manipulate any functions or any accessories of ROVE Dash Cam while driving. Distraction is a leading cause of accidents.
- The images and icons displayed in this user manual are intended for illustrative purposes only. They are not real examples captured by the ROVE dash cam. The purpose of these visuals is to provide a visual representation of the features, functions, and user interface of the product.

FCC ID: 2A3IW-R2-4K DUAL **IC:** 30265-R24KDUAL

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions.

1. This device many not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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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.

⚠ CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environm ent. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IC STATEMENT:

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference; and
- This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables 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.

AGREEMENTS

By purchasing ROVE Dash Cam, you hereby agree with all the terms and conditions of warranty, warnings and precautions. If for any reason you do not agree with these terms, you may return the product in its original packaging unused within its return window for a full refund.

TROUBLESHOOTING YOUR ROVE™ R2-4K DUAL

Camera does not turn ON

1. Use the different Included USB Cable & your smart phone's USB charger. Now plug it into your home's 110V wall outlet.
2. When you plug it in, the camera should turn ON. If NOT, then press the Power Button Once to see if it turns ON? If it still does NOT turn ON, then remove the memory card.
3. Keep the camera plugged in. Now Press the RESET button (Located at the bottom) ONCE with a pen's tip or a paper clip. Now the camera should turn ON. If it still doesn't turn ON, then please CONTACT US.

Error/Message "Card Full"

Format card by going into system settings > format > 0K > Select Format > 0K. Then Go to Video Mode settings > Loop Recording > Choose either I-min, 3-min, 5-min, 10-min. This will allow loop cycle function to be turn ON and it will keep recording over and over.

NOTE Formatting will delete all the data from the memory card.

Camera Freezing/Lagging or Crashing.

Guys Please TRUST US on this. If your camera is freezing, lagging or does NOT record video after some seconds etc. while operating: Then it is the Memory Card Issue. Either you are using the WRONG, FAKE or BAD Memory Card. (Please be aware of the Fake Ones out there. If you have purchased your memory card from eBay or any third party seller online then it is most likely a fake one, even though it looks exactly real. Please trust us. We have sold thousands of ROVE Dash

Cameras and they do NOT lag, we stand by our product and we do extensive testing. Some customers simply thinks the camera is bad or not stable, but that is NOT the case here. It's the Memory Card Issue. Please CONTACT US and we are dedicated in resolving this for you ASAP.

Video is fuzzy

Please make sure the lens of the camera is clean and there is no dirt or grease on the windshield also. If the lens is out of focus, we are extremely sorry in advance. This can be a manufacturing defect. Please send us an email with a screenshot or a sample video so we can get this resolved for you ASAP.

Camera gets HOT

It is normal for your camera to run slightly hot. (Please see temperature guidelines on page 12)

Camera turns ON/OFF frequently automatically.

Please reset your camera. Try updating the firmware again to see if this fixes the issue. If still having issue, please reach out to customer care.

My oldest video files are missing

Your ROVE Dash Cam has Loop Cycle Recording. When it is set to either 1, 3, 5 or 10-mins, it will delete oldest files and record newer files over and over when the memory card is full.

To test again: Set the date and time correctly, then FORMAT the memory card, then do the continuous recording test again and check if all videos are present.

Camera Locks many videos automatically.

Please change your G-Sensor Setting to higher setting. This setting depends on type of car or truck you are driving and how much vibration your car/truck is creating based on suspensions and road condition.

microSD Card is crooked or not going in slot easily

Please make sure you align microSD card correctly with gold contacts facing towards the Lens. (See Page 36)

My Video playback on PC is lagging.

You are viewing high-bit rate version of video files. Slower PC may have problem with faster data processing. Please record videos at lower resolution and try again. Contact us if problem still persists.

Camera showing "Memory Card Error" or "Please Insert microSD Card" even though memory card is already installed into the camera.

1. Please make sure memory card is at least Class 10, U3 and purchased from trusted vendor such as Walmart, target, best buy, Ship & Sold by Amazon etc. (there are many fake cards out there Online, remember if it's cheap, its fake.)
2. Now go to camera's system settings and FORMAT your memory card. (make sure to backup your videos first before formatting the memory card.) After formatting memory card, please press and hold power button to turn the camera off. Now unplug power cable, and re-plug the power cable, camera should now turn ON automatically and start recording.
3. If you still getting the same error, then let's switch the camera mode to PHOTO mode by pressing and holding the MENU button. Once in the PHOTO MODE, press OK button to take the photo.

My date and time is not staying the same even after I set date and time.

Please go to camera's system settings > Time Zone Setting > Set your correct GMT value > OK to confirm. That's it. Now wait until you get GPS signal LOCK and then every-time you have GPS signal, you will always have correct date and time.

Please visit **https://greenwichmeantime.com/time-zone/usa/** to find your correct GMT time zone based on your location. (See details on Page. 39)

Still Need Help or Have Questions?

Please feel free to contact our personalized support at **help@rovedashcam.com** Most e-mails are typically replied within 4-6 hours during normal business hours. However, all questions are answered within 24 Hours. No Exceptions !!

For customer service PHONE SUPPORT number please visit: **https://www.rovedashcam.com/pages/supports**

A BIG THANK YOU!!



Thank you for purchasing your new ROVE™ R2-4K DUAL Dash Cam. We hope you find your new dash cam useful and fun to use.

If you are having difficulties setting it up, please email us at help@rovedashcam.com 99% of all setup problems can easily be resolved and should be able to get you up and running in no time.

In the unlikely event that we can't help, we're always happy to provide full, hassle-free refund. We just want our customer to be happy and proud to use ROVE™ Dash Cam!

There is no perfect product, however we will always do our best to provide perfect customer service to you.

A Great care was taken while creating this user manual. It is possible that there are minor typos are there. If you find any mistakes or suggestions, please do let us know so we can correct it. Please visit our website for latest and updated user manual if available. We also frequently update other great contents that is very useful to our customers.

Camera upgrades, firmware, box contents can be changed without notice. Always see up to date information by visiting our website.



GOT QUESTIONS?

CUSTOMER SERVICE:

EMAIL US — Response in just 6 hours
help@rovedashcam.com

TEXT US — For faster response text us
1-844-ROVE-CAM
1-844-768-3226

7 DAYS A WEEK
9 AM - 5 PM (PST)

Scan the QR Code to CONTACT US

Scan to Email US:
help@rovedashcam.com

Scan to Text US:
1-844-ROVE-CAM
1-844-768-3226

FCC ID: 2A3IW-R2-4K DUAL | **IC: 30265-R24KDUAL**

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