

# ROVE™ R2-4K DUAL PRO

4K+2K DUAL CHANNEL CAR DASH CAM

With 128GB ROVE PRO microSD Card & CPL Filter

ROVE™  
DASH CAM

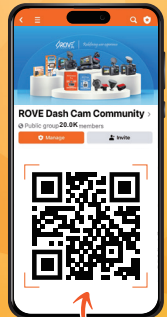
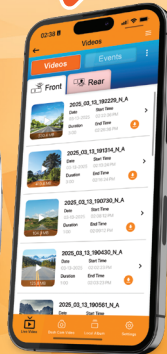
Smart & Beautiful  
**ROVE APP** For  
iOS & Android

Please Read

**Wanna meet?**  
other ROVERS (ROVE Owners)?

Join the vibrant ROVE Dash  
Cam Community on FB.

Ask questions, share your  
dash cam videos or just  
hang out directly with us.



**FREE**  
CPL  
Filter (Included)

**FREE**  
128GB  
ROVE PRO microSD card (Included)

ULTRA-HD

**4K**

DUAL

STARVIS 2

QUAD-MODE



BUILT-IN

5GHz  
WIFI

DOWNLOAD  
SPEED



PARKING  
MODE



**USER MANUAL**

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[www.rovedashcam.com](http://www.rovedashcam.com)



## 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

### HOURS

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

EMAIL US



Response in just 6 hours  
[help@rovedashcam.com](mailto: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](http://www.rovedashcam.com)

# WATCH HOW TO VIDEOS

Visit our website

[www.rovedashcam.com/pages/videos](http://www.rovedashcam.com/pages/videos)



## Understanding ROVE R2-4K DUAL PRO

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 PRO Dash Cam (Front 2160P + Rear 1440P). With this product, you're equipped with more than just a dash cam — it's your eyewitness on the road, capturing license plates and the smallest details like never before. Experience high-quality image capture and irrefutable evidence from your dashboard's perspective. The ROVE R2-4K DUAL PRO isn't just any driving recorder; it's a smart, 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 is equipped with a 4K ULTRA-HD 2160P @30fps front camera featuring the SONY IMX678 STARVIS 2 (8MP) CMOS Sensor, alongside a 2K 1440P @30fps rear camera utilizing the SONY IMX675 STARVIS 2 (5MP) CMOS Sensor. This combination ensures excellent low-light sensitivity and high dynamic range, enabling continuous high-quality video playback. With an F1.7 Aperture and Super Night Vision Technology, it delivers phenomenal 4K Ultra-HD resolution even in low-light conditions, without relying on infrared sensors. The package includes a free 128GB ROVE PRO microSD Card and a free CPL Filter. Additional features include Dual-Band WiFi (5GHz and 2.4GHz), offering up to 30MB/s file download speed, built-in Quad-Mode GPS, G-Sensor, Smart Voice Control, Emergency Video Lock Button, Audio Recording, Loop Cycle Recording, 180° Auto Video Rotation, High Dynamic Range, and 24-Hour Auto Trigger Parking Mode. 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 from both the front and rear cameras, and is exceptionally easy to use.

## FEATURES

|  |  |
|--|--|
|  Dual Channel Dash Cam  |  Built-in Supercapacitor  |
|  4K UHD 2160P (Front) + 2K 1440P (Rear)   |  Custom Designed Beautiful Software                               |
|  DUAL STARVIS 2 Image Sensors IMX678 (Front) + IMX675 (Rear)  |  Beautiful ROVE APP for iOS & Android Devices                     |
|  Free 128GB ROVE PRO microSD Card (Included)  |  Screen Saver   |
|  Free ROVE Ultimate CPL Filter for R2-4K DUAL PRO (Included)  |  Status LED ON/OFF Indicator                                      |
|  Dual-Band WiFi (5GHz and 2.4GHz)   |  Auto Power OFF   |
|  Up To 30MB/s File Download Speed   |  Live Speed   |
|  3" IPS Wide Display   |  Live Compass   |
|  150° (Front), 140° (Rear) Ultra-wide A+ Viewing Angle  |  USB Type-C Compatibility   |
|  HDR - High Dynamic Range   |  Built-In Speaker & Microphone                                    |
|  STARVIS 2 Super Night Vision   |  Voice Guidance   |
|  Built-In Quad-Mode GPS for Geotagging  |  Time, Date, Driver ID, Driving Speed, GPS stamp support          |
|  Built-in Three-Axis G-Sensor   |  Lifetime Customer Support  |
|  H.265 & H.264 Advanced Video Compression   |  1-Year Warranty  |
|  Seamless Loop Cycle & Split Recording   |  Over-The-Air Firmware Updates via iOS/Android ROVE Dash Cam APP |
|  24hr Auto Trigger Parking Mode (ROVE Ultimate USB-C HWK Required - Not Included)   |  |
|  Supports up to 1TB microSD Card (Class 10, U3 Speed Only-We recommend ROVE Ultimate (Premium Choice) or ROVE PRO (Everyday Affordable) microSD 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 PRO dash cam.
- 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:** A memory card is included in the box for use with the dash cam. You can use up to 1TB microSD 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 and use this device in compliance 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 PRO 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 with Type-C Cable. Just make sure that the USB charger has a 5V, 2.4 AMP power output, 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 1TB max for reliable operation.

**(We recommend ROVE Ultimate (Premium Choice) or ROVE PRO (Everyday Affordable) microSD Card up to 1TB 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 40)

- 4 ROVE R2-4K DUAL PRO 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 41 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>



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

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




We recommend VLC Media Player to view your videos. You can get it free at [www.videolan.org](http://www.videolan.org)

**NOTE**

You can't connect R2-4K DUAL PRO to Computer directly. We suggest removing the memory card from the dash cam and insert it directly to the computer to transfer data. Or you can also use ROVE APP and WiFi transfer speed of 30MBps to download necessary videos.

- 8 **WiFi:** You can also connect ROVE R2-4K DUAL PRO Car Dashcam to your smartphone directly by using the built-in WiFi feature. (See Page 43)

## CAMERA SPECIFICATIONS

|                                       |   |
|---------------------------------------|---|
| <b>Video Resolution</b>               | <b>Front Camera Video Resolutions:</b><br><b>4K</b> 3840x2160P @30fps<br><b>2.7K</b> 2592x1520P @30fps<br><b>2K</b> 2560x1440P @60fps (HDR not supported)<br><b>2K</b> 2560x1440P @30fps<br><b>FHD</b> 1920x1080P @60fps (HDR not supported)<br><b>FHD</b> 1920x1080P @30fps<br><b>Rear Camera Video Resolutions:</b><br><b>2K</b> 2560x1440P@30fps<br><b>FHD</b> 1920x1080P@60fps (HDR not supported)<br><b>FHD</b> 1920x1080P@30fps |
| <b>Image Sensor</b>                   | SONY <u>IMX678 STARVIS 2</u> (8MP) CMOS Sensor for the Front Camera, and SONY <u>IMX675 STARVIS 2</u> (5MP) CMOS Sensor for the Rear Camera   |
| <b>LCD Screen</b>                     | 3 Inch IPS Wide Display   |
| <b>Lens View Angle</b>                | 150° front, 140° rear   |
| <b>Lens Aperture</b>                  | F1.7 Front camera and F1.55 Rear camera   |
| <b>GPS</b>                            | Built-in QUAD-Mode GPS.<br>Including GPS (US), Galileo (EU),<br>Beidou (CN), & Glonass (RU).  |
| <b>WiFi</b>                           | Dual Band WiFi (2.4GHz & 5GHz)<br>Up to 30 MBps Download Speed over 5GHz Mode   |
| <b>Memory Card</b>                    | <b>128GB microSD Card Included</b> , Max. Support 1TB<br>(We recommend <b>ROVE Ultimate (Premium Choice)</b> or <b>ROVE PRO (Everyday Affordable)</b> microSD Card)    |
| <b>CPL Filter</b>                     | Support - ROVE Ultimate CPL Filter for R2-4K DUAL PRO (Included)    |
| <b>24hr Auto Trigger Parking Mode</b> | Support (ROVE Ultimate Type-C Hardwire kit Required, NOT Included)   |

## ROVE™ R2-4K DUAL PRO

|   |   |
|---|---|
| <b>Voice Guidance</b>                         | Support   |
| <b>Video Format</b>                           | MP4   |
| <b>Video Bit Rate</b>                         | Low/Standard/Max  |
| <b>Video Encoding</b>                         | H.265/H.264   |
| <b>Anti Flicker</b>                           | 60 Hz, 50 Hz  |
| <b>Mobile Apps</b>                            | Yes, ROVE App for iOS & Android Devices   |
| <b>Video Player</b>                           | FREE ROVE Dash Cam GPS Player for PC and Mac Available  |
| <b>Loop Recording</b>                         | Support - Seamless Loop Recording   |
| <b>G-Sensor</b>                               | Built-in 3-Axis Impact Accelerometer Gravitational Sensor to lock & protect current video.  |
| <b>Motion Detection</b>                       | Support   |
| <b>Year/Month/Day/<br/>Hour/Minute/Second</b> | Support   |
| <b>Mic/Speaker</b>                            | Built-in Microphone for Crystal Clear Audio Recording & Built-in Speaker  |
| <b>Type-C USB Function</b>                    | Charging  |
| <b>Auto Power ON/OFF</b>                      | Support   |
| <b>Power Interface</b>                        | 5V, 2.4A  |
| <b>Power Reserve</b>                          | Supercapacitor  |
| <b>Temperature Guideline</b>                  | Operating Temperature 14°F (-10°C) ~ 131°F (55°C)<br>Working Humidity 15% ~ 60% RH<br>Storage Temperature -4°F (-20°C) ~ 158°F (70°C) |

## PACKAGE CONTENTS



360° Rotational  
Windshield Suction Mount



360° Rotational Sticky Mount



(Free) ROVE PRO 128GB  
microSD Card With SD Adapter



12FT USB Type-C  
Car Charging Cable



6M USB Type-C  
Rear Camera Cable



(Free) ROVE Ultimate CPL Filter,  
Microfiber Lens Cleaning Cloth



ROVE DUAL USB CAR CHARGER  
with Spare Type-C Port



Dash Cam Window/Bumper  
Sticker, 1x Front +  
1x Rear Electrostatic Films









5x Cable Hiding Clips, 2x Spare  
Sticky Tapes, 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 1TB.

UNIT STRUCTURE APPEARANCE & BUTTONS



## SHORTCUTS & UNDERSTANDING BUTTONS

| BUTTON IMAGE  | BUTTON NAME               | SHORTCUTS/FUNCTIONS   |
|---|---------------------------|---|
|    | <b>POWER<br/>BUTTON</b>   | 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.  |
|    | <b>MENU/MODE</b>          | Press Once - to enter/exit menu settings  |
|   |                           | LONG PRESS for 2-Seconds - to Switch Modes  |
|    | <b>UP</b>                 | 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 Playback Mode                                       |
|   |                           | Press Once - to Reverse Playback while video is being played in Playback Mode                               |
|    | <b>EMERGENCY<br/>LOCK</b> | 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  |
|    | <b>DOWN</b>               | Press Once - to switch the front and rear view 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                                   |
|  | <b>OK/CONFIRM</b>         | 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 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 sticky mount installation.

### Installing and using the suction mount

- 1 Installation Position:** Most people will install their R2-4K DUAL PRO 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 PRO with the suction mount. Set the camera lens to point forward to the center when installing it.

#### **i** 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.



### 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.

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

- 5 Adjust the lens angle of the camera.**

Loosen the screw to adjust the camera's view/tilt angle and then tighten it to lock that angle.

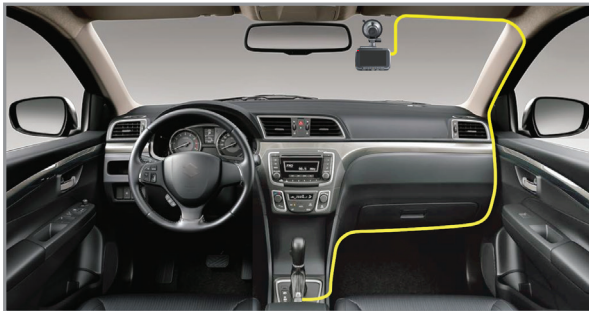
Simply rotate the camera **360°** to record any direction you prefer.



- 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 has 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.



## ROVE™ R2-4K DUAL PRO

- 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.

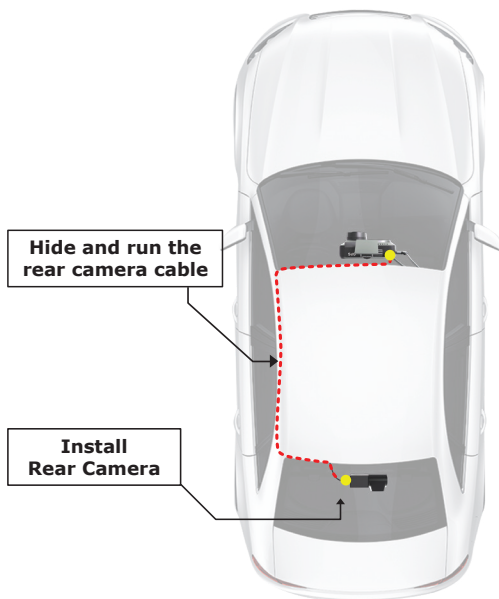


### NOTE

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 tuck up and route the rear camera cable neatly.



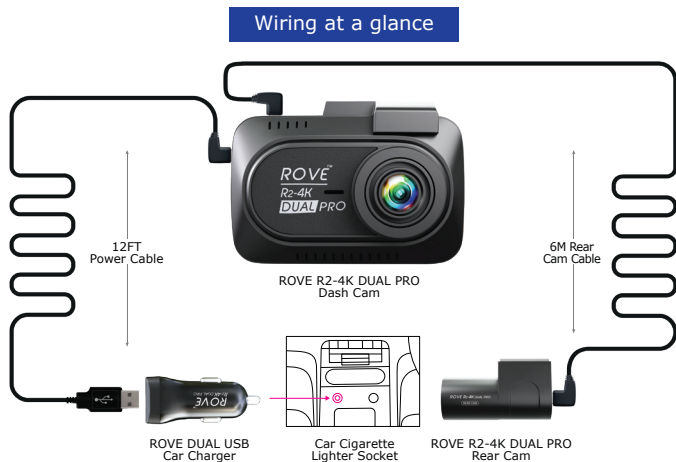
**Rear camera wiring diagram*****i* NOTE**

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

## ROVE™ R2-4K DUAL PRO

- 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.



### **⚠ 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.

- 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.

- Insert the microSD card into the dash cam before using it for the first time. (See page 38 to know more about inserting/removing microSD Cards)
- Now start the car's engine and check if the dash cams are working correctly.

**i 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 Sticky Mount**

- First, turn OFF the car's engine.
- 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 PRO 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 sticky mount. If you ever need to remove the Mount, then you can simply peel off the electrostatic film from the windshield for an easy and clean removal.

- 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.