



BLACKVUE™

DR450-1CH

Manual



Table of Contents

Introduction	3
Important safety information	4
Overview	7
In the box	7
BlackVue at a glance	8
Removing and inserting the BlackVue	9
Installation	10
Installing the BlackVue.....	10
Playing and Managing Videos	13
Removing the microSD card	13
Opening video files in BlackVue Viewer.....	14
For Windows users	14
For Mac users	15
Viewer screen composition	16
Windows Viewer	16
Mac Viewer	17
Playing video.....	18
Playing back videos	18
Identify video files by recording type	18
Checking my time	19
Using BlackVue Viewer.....	19
Exploring the timeline	19
Zoom options	20
Viewing the G-Sensor graph.....	20
Checking the GPS data	21
GPS tracking	21
GPS tracking – Advanced mode.....	22
Managing videos.....	23
Capturing or printing a still image from video	23
Deleting videos	24
Exporting videos.....	25
Verifying videos	27

Keeping the BlackVue updated	28
Formatting the microSD card	28
Format using Windows Viewer	28
Format using Mac Viewer	30
Upgrading the firmware	32
Changing settings	35
BlackVue Viewer language setting	35
BlackVue settings	35
Basic settings	36
Sensitivity settings	38
Other settings.....	41
Applying the settings.....	41
Optional accessories	42
Padlock (Optional)	42
GPS receiver (Optional).....	43
Parking mode hardwiring kit (Optional)	44
Troubleshooting	45
Running the time setting program.....	45
Frequently asked questions	46
About using the BlackVue.....	46
About the microSD card	46
About recording videos	47
About playing back videos	47
About changing the settings.....	47
Product specifications.....	49
Recording time	50
Disposal and recycling information.....	51

Introduction

Thank you for purchasing this BlackVue dashcam made by Pittasoft Co., Ltd.

This instruction manual contains information on how to operate your BlackVue.

Before using your BlackVue, we recommend that you read through this manual to ensure correct usage.

To improve the performance of the product, the contents of this manual are subject to change without prior notice.

Note

- A formatted microSD card is provided in the BlackVue when you purchase the product. After turning on the power of the BlackVue, the microSD card will be initialized and programs such as BlackVue Viewer will be installed.

Important safety information

For user safety and to avoid property damage, read through this manual and follow these safety instructions to use the product correctly.



DANGER

Failure to observe the following directions could result in death or property damage:

- **Do not disassemble, repair, or modify the product yourself.**
Doing so may cause fire, electric shock, or malfunction. For internal inspection and repair, contact the service center.
- **If any foreign matter gets inside the product, detach the power cord immediately.**
Contact the service center for repair.
- **Do not adjust the product while driving.**
Doing so may cause an accident. Stop or park your car in a safe place before installing and setting up the product.
- **Do not install the product in a location where the product can interfere with the driver's field of vision.**
Doing so may cause an accident.
- **Do not use a damaged or modified power cord. Only use the cords provided by the manufacturer.**
Damaged or modified power cords may cause an explosion, fire, or malfunction.
- **Do not operate the product with wet hands.**
Doing so may cause electric shock.
- **Do not install the product in an environment with high humidity, or combustible gases or liquids.**
Doing so may cause an explosion and/or fire.



WARNING Failure to observe the following directions could result in death or serious injury:

- **Do not leave the product near infants, children, or pets.**

There is a risk of them swallowing small components, and/or their saliva may get into the product, causing an explosion due to a short circuit.

- **Do not spray water or wax directly onto the product while cleaning the inside of the car.**

Doing so may cause fire, electric shock, or malfunction.

- **If smoke or an unusual smell is emitted from the power cord, detach the power cord immediately.**

Contact the service center or your distributor.

- **Keep the terminals of the power cord clean.**

Failure to do so may cause excessive heat and fire.

- **Use the correct input voltage.**

Failure to do so may cause explosion, fire, or malfunction.

- **Plug in the power cord firmly so that it cannot easily be disconnected.**

Failure to do so may cause fire.

- **Do not cover the product with any material.**

Doing so may cause external deformation of the product or fire. Use the product and peripherals in a well-ventilated location.

**CAUTION**

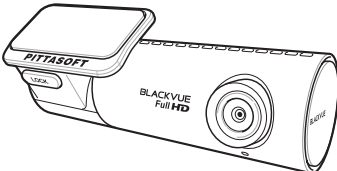
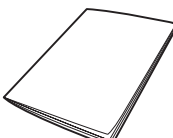
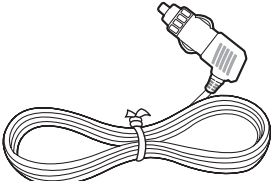
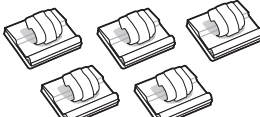
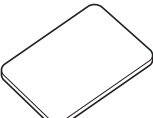

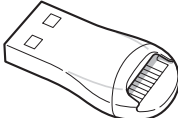

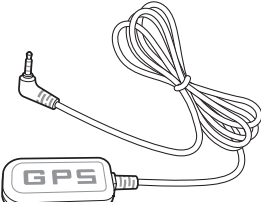
Failure to observe the following directions could result in injury or property damage:

- **Do not spray cleaning products directly onto the product.**
Doing so may cause discoloration, cracks, or malfunction.
- **If the product is used outside the optimal temperature range (-20°C – 60°C / -4°F – 140°F), performance can decline or malfunctions may occur.**
- **Make sure that the product is installed properly.**
If installed incorrectly, vibrations may cause the product to fall, and may cause physical injury.
- **When entering or exiting a tunnel, when directly facing into bright sunlight, or when recording at night without lighting the quality of recorded video may deteriorate.**
- **If the product is damaged or the power supply is cut due to an accident, video may not be recorded.**
- **Excessively tinted windshield glass can distort the recorded video or cause recorded video to be indistinct.**
- **Prolonged use of the product can increase the interior temperature and cause burns.**
- **microSD cards are consumables, so replace microSD cards after prolonged use.**
microSD cards may not record video correctly after extended use, so check the microSD card's recording capability periodically and replace as necessary.
- **Clean the lens regularly.**
Foreign material attached to the lens can affect the recording quality.
- **Do not remove the microSD card while the microSD card is saving or reading data.**
The data can be damaged or malfunctions may occur.
- **It is recommended that you install the software and firmware from the BlackVue download page. You can access the BlackVue download page on the BlackVue website (www.blackvue.com).**
- **It is recommended that you remove the power cord if the product (BlackVue/Parking Mode Hardwiring Kit) is not used for an extended period of time.**

Overview

In the box

Check the box for each of the following items before installing the BlackVue.

	BlackVue		Quick start guide
	Power cord		Cable clips (5 EA)
	Double-sided tape for the Mounting Bracket		microSD card
	microSD card reader		Pry tool
	External GPS (Optional)		

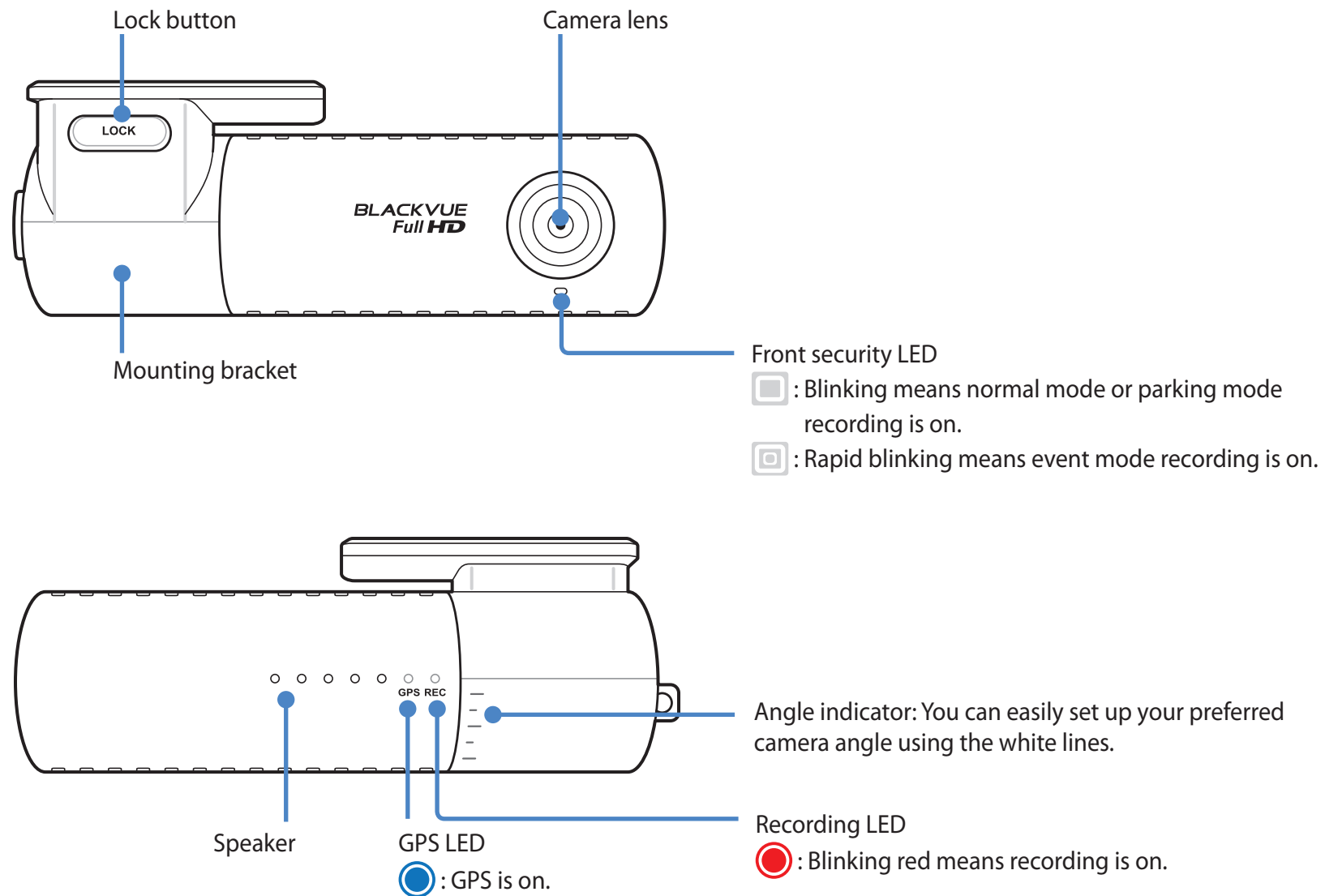


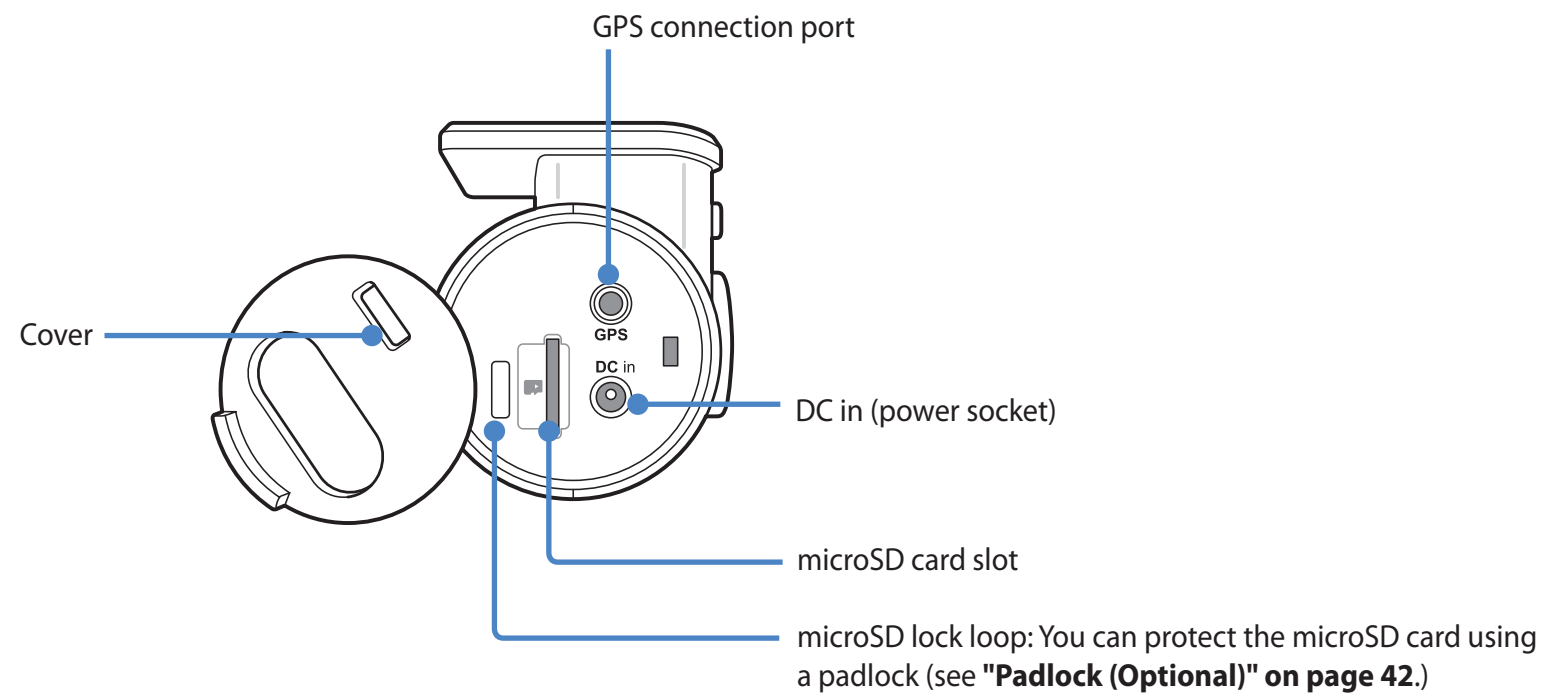
Note

- The illustrations in this manual may differ from the product.
- To improve the performance of the product, the contents of this manual are subject to change without prior notice.
- For more information about the package components and accessories, visit the BlackVue website (www.blackvue.com).
- You can find the microSD card in the BlackVue.

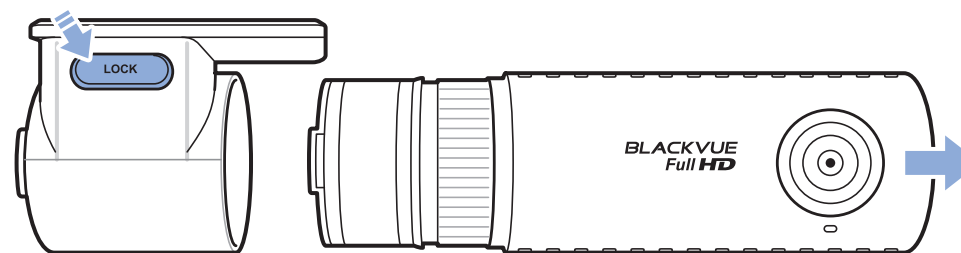
➤ BlackVue at a glance

The following diagrams explain each part of the BlackVue.





☐ Removing and inserting the BlackVue

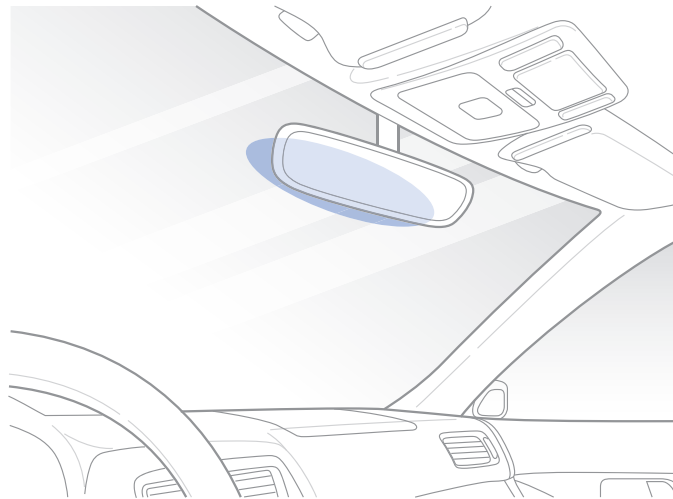


- To remove the BlackVue from its bracket, press the LOCK button and pull the BlackVue out of the mounting bracket.
- To insert the BlackVue into its bracket, push the BlackVue into the mounting bracket until it "clicks" in.

Installation

➤ Installing the BlackVue

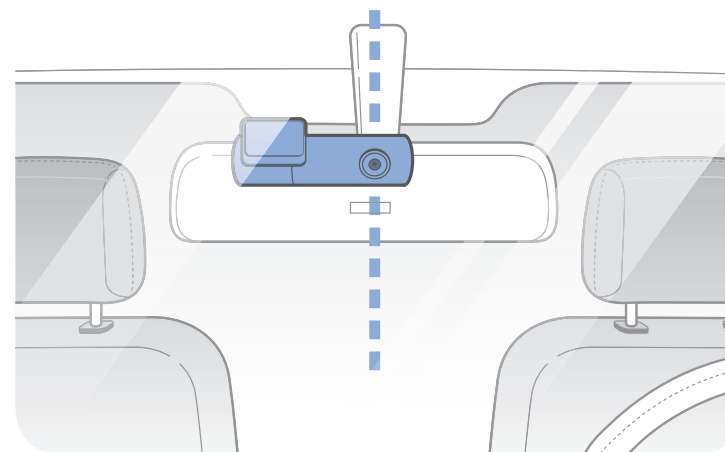
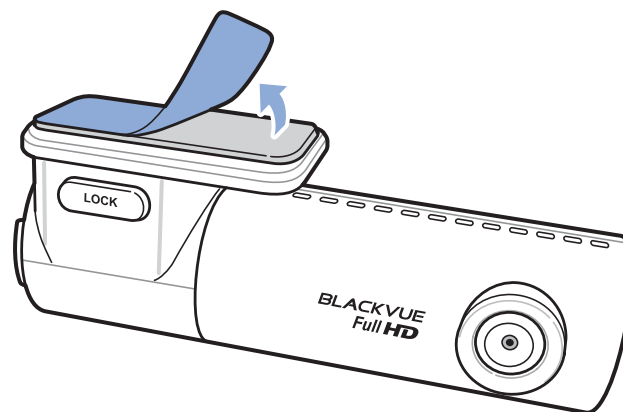
Install the BlackVue behind the rear view mirror. Remove any foreign matter and clean and dry the windshield before installation.



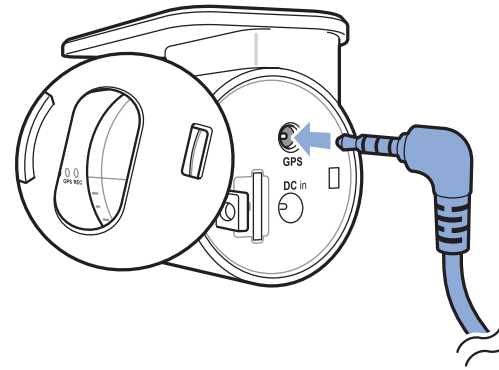
⚠ Warning

- Do not install the product in a location where it can obstruct the driver's field of vision.

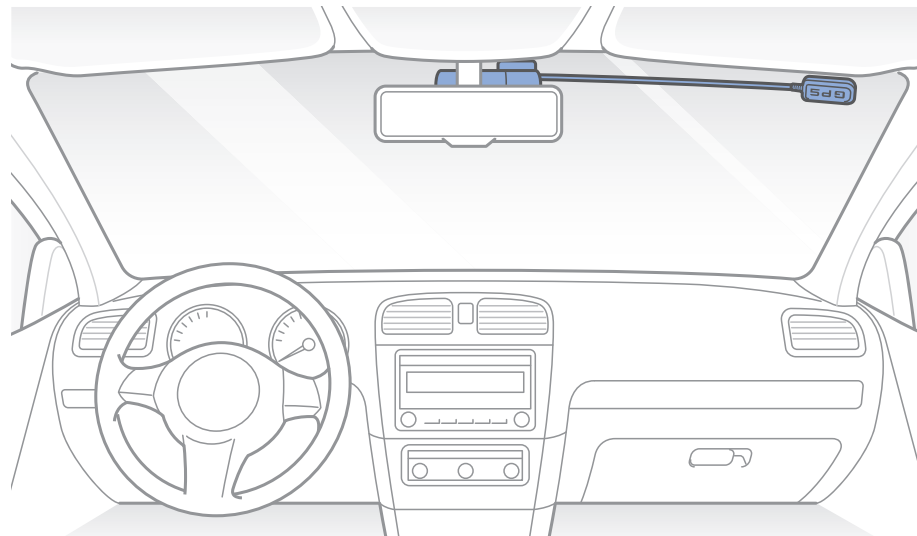
- 1 Turn off the engine.
- 2 Attach the BlackVue to the front windshield after peeling off the protective film from the double-sided tape.



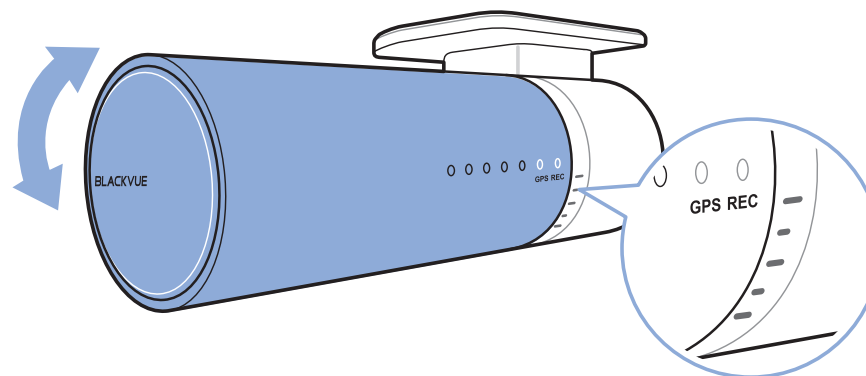
- 3** Plug the external GPS (optional) into the GPS port on the BlackVue.



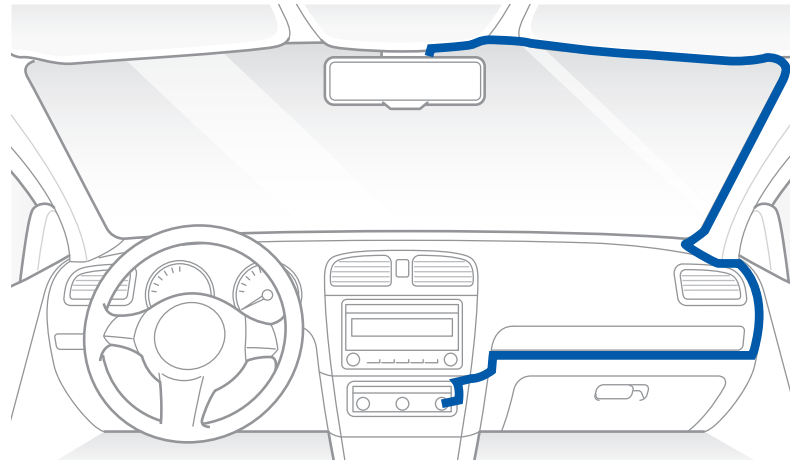
- 4** Attach the external GPS to the upper corner of the windshield.



- 5** Adjust the angle of the camera to have a clear view. In general, an angle of approximately 5° – 10° below horizontal will be most suitable. In the recorded videos a 6:4 ratio of land to sky is recommended.



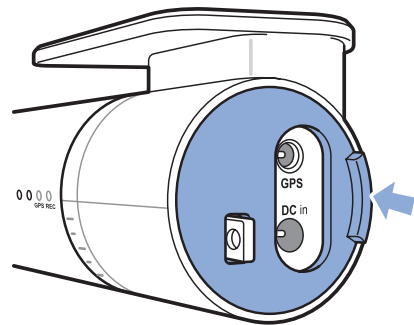
- 6 Peel off the protective lens cover.
- 7 Use a pry tool to lift up the edge of the windshield trim and tuck in the power cord. Route the cord along the top of the windshield. When you get to the pillar, pry the molding slightly towards you and tuck the cord underneath. Route the cord into the side molding and under the rubber window sealing, and feed the cord down to the open panel area. You can also make use of the cable clips to neatly arrange the power cord.



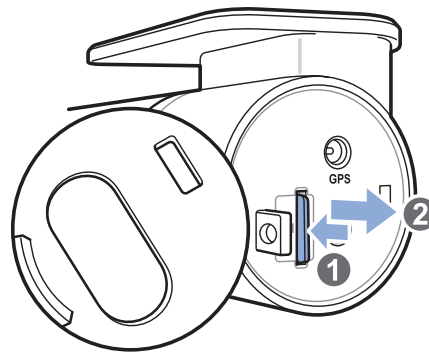
- 8 Plug the power cord into the vehicle's cigarette lighter port and the other end into the BlackVue.
- 9 The camera will turn on automatically when the engine is started (check that the recording LED is blinking orange and the GPS LED is on).

➤ Removing the microSD card

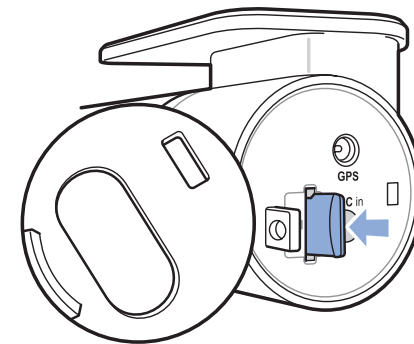
- 1 Unplug the power cord to turn off the BlackVue.
- 2 Open the side cover of the BlackVue.
- 3 To remove the microSD card, gently press on the card to release the lock then carefully pull the card out.
To insert the microSD card, gently push the card into the slot until it locks into place and close the side cover.



Open side cover



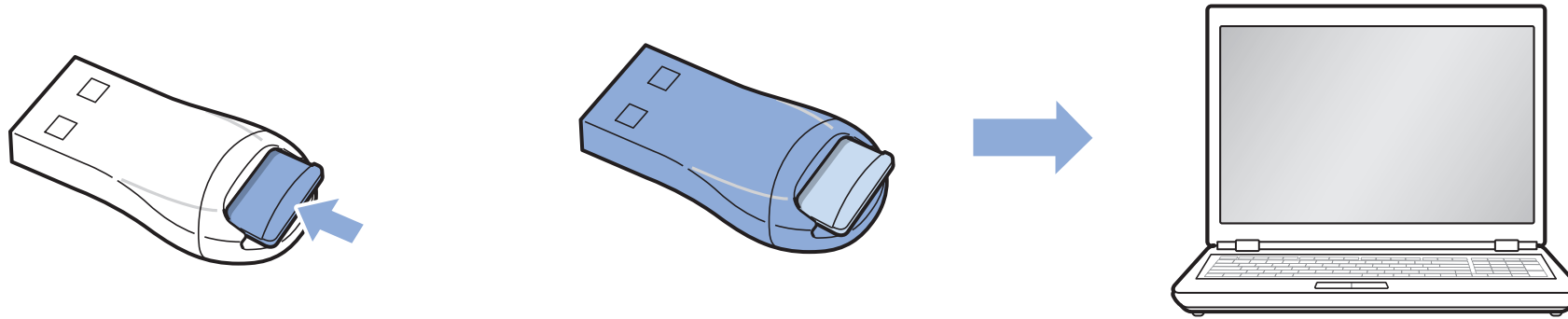
To remove



To insert

➤ Opening video files in BlackVue Viewer

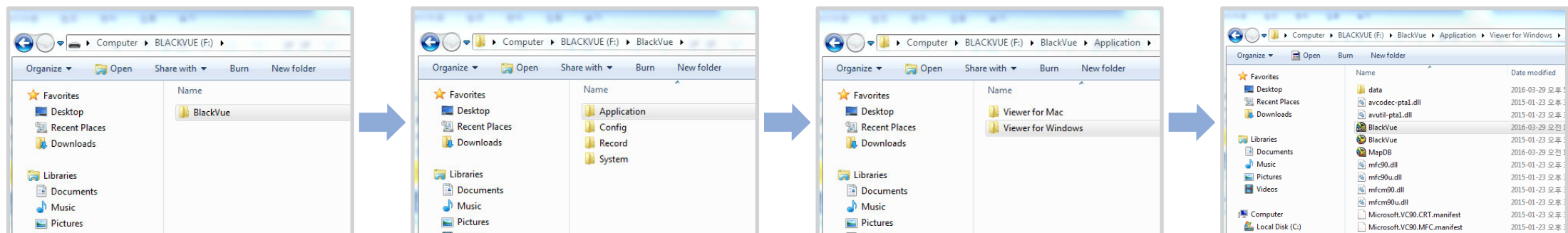
- 1 Remove the microSD card from the BlackVue.
- 2 Insert the card into the microSD card reader and connect it to a computer.



- 3 Find and run the BlackVue Viewer program.

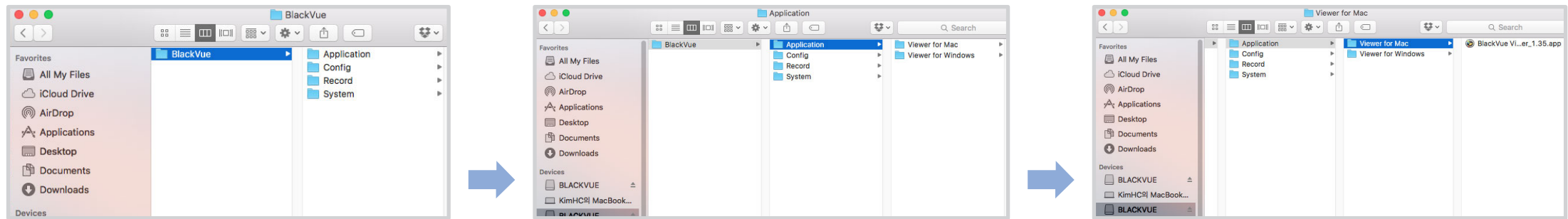
☐ For Windows users

Open Windows Explorer and click on the microSD card (Removable Disk (F:), or the name of your card location). Navigate to F:\BlackVue\ Application\Viewer for Windows\ and run BlackVue.exe.



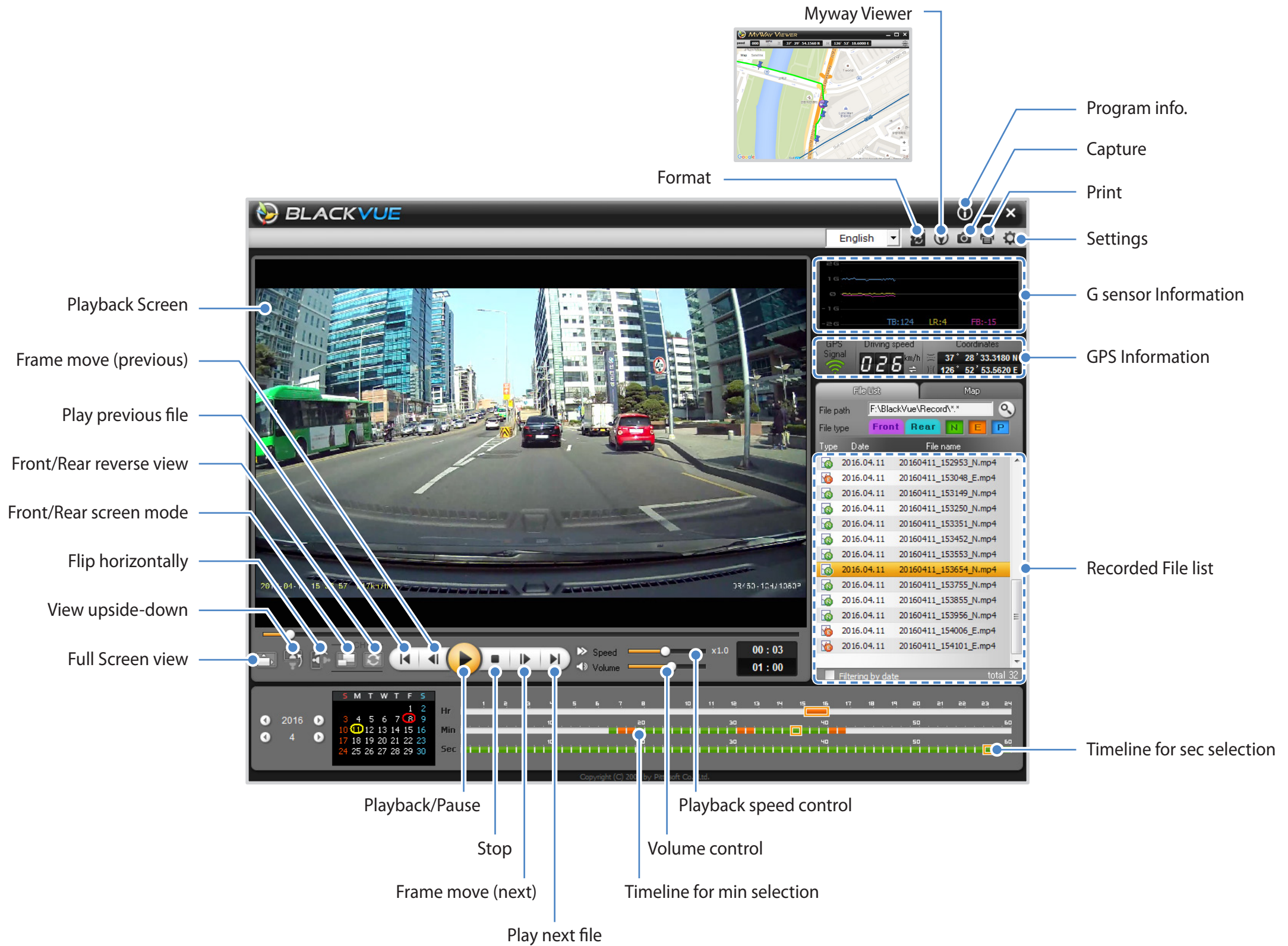
For Mac users

Open Finder and select the microSD card reader from the list in the left frame. Navigate to \BlackVue\Application\Viewer for Mac\ and run BlackVue Viewer.



➤ Viewer screen composition

☐ Windows Viewer





Mac Viewer






Playing video

Playing back videos


In BlackVue Viewer select a video and click  or double click the selected video to play.

BlackVue Viewer shows by default the files in the microSD card. To see files in another folder click  (Windows) or  (Mac) and set the folder path.

Identify video files by recording type

	2016.04.11	20160411_094952_N.mp4
	2016.04.11	20160411_094953_E.mp4
	2016.04.11	20160411_094954_P.mp4






: BlackVue starts normal recording by default.

: BlackVue starts event recording with a 5-second prerecording when it detects an impact during normal mode or parking mode.

: BlackVue starts parking recording with a 5-second prerecording when it detects motion in the camera during parking mode.

Parking mode recording starts when the vehicle does not move for 10 minutes or longer.

Note

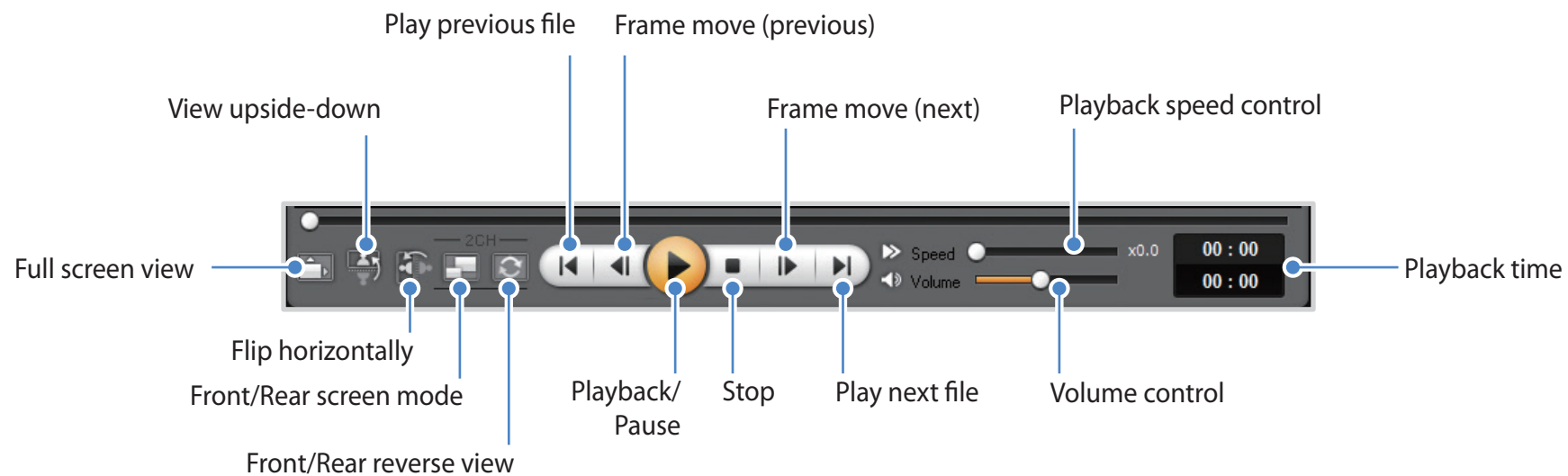
- BlackVue requires a constant power source to record in parking mode. See "**Parking mode hardwiring kit (Optional)**" on **page 44** for more information.
- To install the BlackVue Viewer program on your computer, go to the BlackVue website (www.blackvue.com) and download the installable version of the BlackVue Viewer.
- Using the File type buttons ( ,  ,  ,  , ) you can filter the file list by Front camera, Rear camera (only in the 2CH model), Normal recording, Event recording, and Parking mode recording.

☐ Checking my time

The time the video was recorded is displayed in the lower left corner of the video in the playback screen. If the displayed time in the recorded videos is incorrect please see **"Setting my time zone" on page 37**.

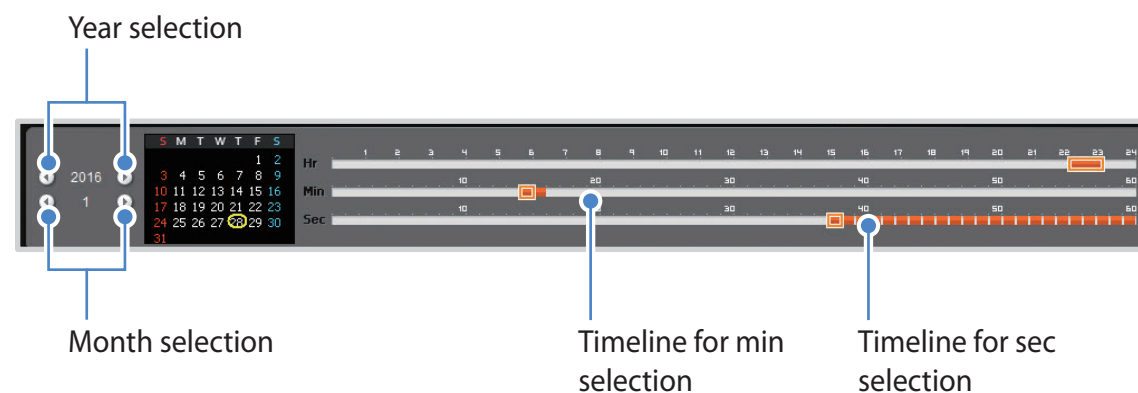
☐ Using BlackVue Viewer

You can customize the playback options of the recorded videos, such as the screen size, playback speed, and volume using the playback option buttons.



☐ Exploring the timeline

You can explore the timeline for the playback of the recorded videos by date, hour, minute, and second using the timeline option buttons.

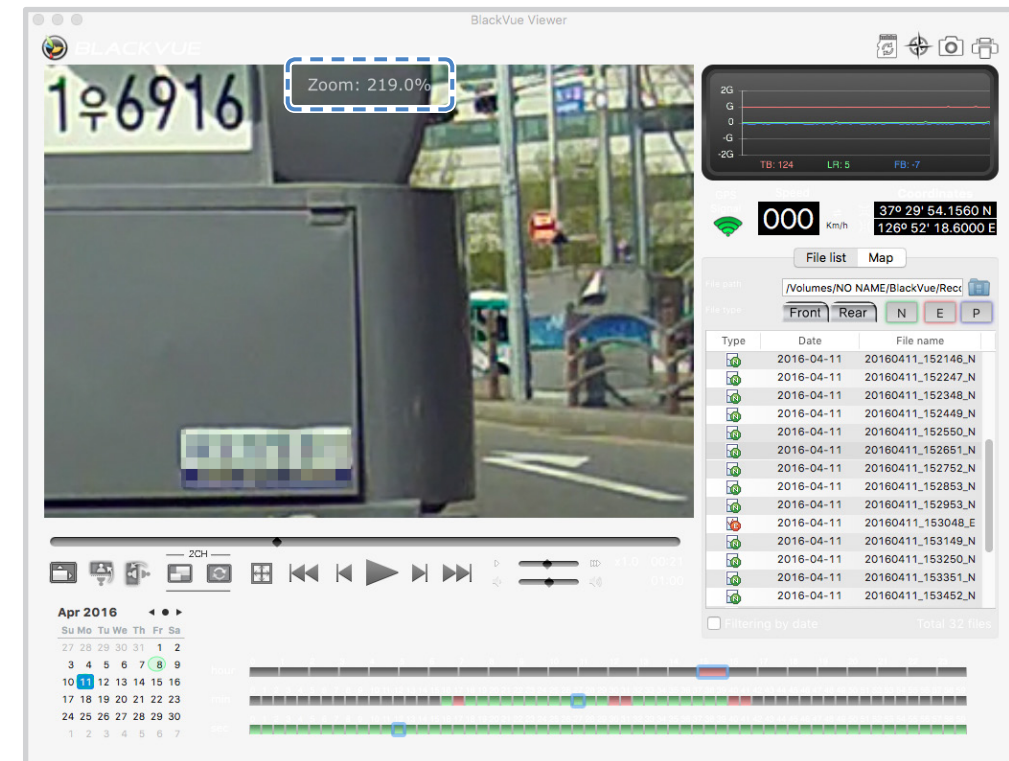


☐ Zoom options

- **Full-screen view:** Double click on the video image to enter full-screen view. Double click again or tap ESC to return to the default view.
- **Zoom to 100%:** Right-click on the video image to view at 100% zoom. Click and drag to move the video image around.
- **Zoom region:** Single click on a particular region of the video image to enlarge. Click again to return to default view. For Mac users zoom in or out through the drag of a mouse.

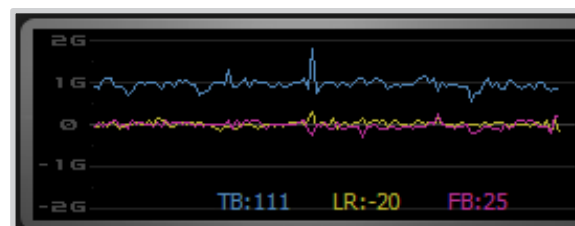


Windows



Mac

☐ Viewing the G-Sensor graph



You can check the impact sensitivity (G-Sensor) information in the main window.

□ Checking the GPS data

You can check the GPS information of the recorded video in the BlackVue Viewer while video is playing back.



□ GPS tracking

You can check the vehicle's speed and the location of the recorded video in BlackVue Viewer while a video is playing back (GPS tracking).

- 1 Double click a file in the file list to play.
- 2 Click the **Map** tab.


📝 Note

- An external GPS receiver is required to obtain GPS data. See "**GPS receiver (Optional)**" on page 43.

GPS tracking – Advanced mode

Combine 4 consecutive videos and GPS data to build a driving route and see your car's speed and location as well as any event recorded, while watching the video footage at any point of the route.

1 Double click a file in the file list to play.

2 Click the  button.



Managing videos




You can manage the recorded videos through the BlackVue Viewer program. You can also format the microSD card and upgrade the firmware.

Note

- If the microSD card is full, by default the BlackVue will record over the oldest videos first.

Capturing or printing a still image from video

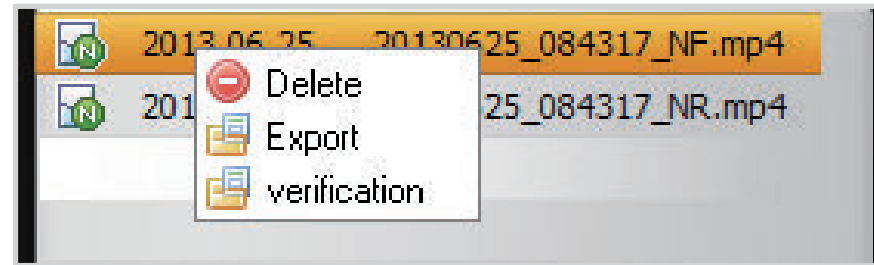


- 1 Double click a file in the file list to play.
- 2 Click the  button to pause the video.
- 3 Select the  button to capture the image or the  button to print directly.

☐ Deleting videos

☐ For Windows users

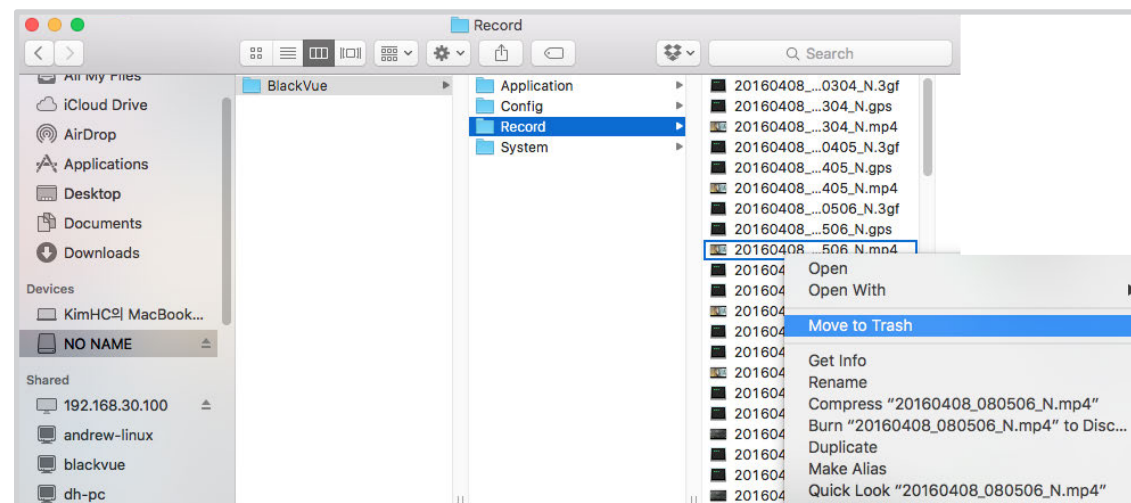
- 1 Select the video from the recorded video list.
- 2 Right-click the video.



- 3 Click Delete.

☐ For Mac users

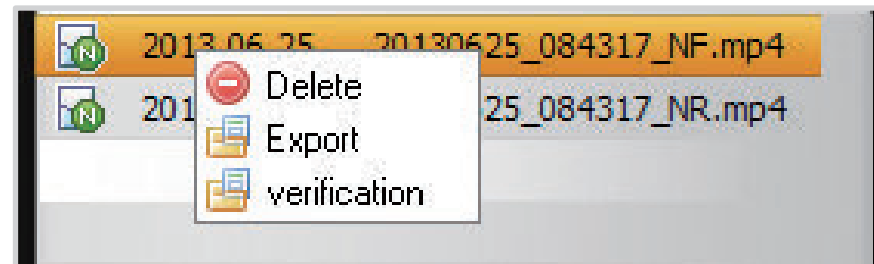
- 1 Navigate to \BlackVue\Record\.
- 2 Select the video from the recorded video list.
- 3 Click Move to trash.



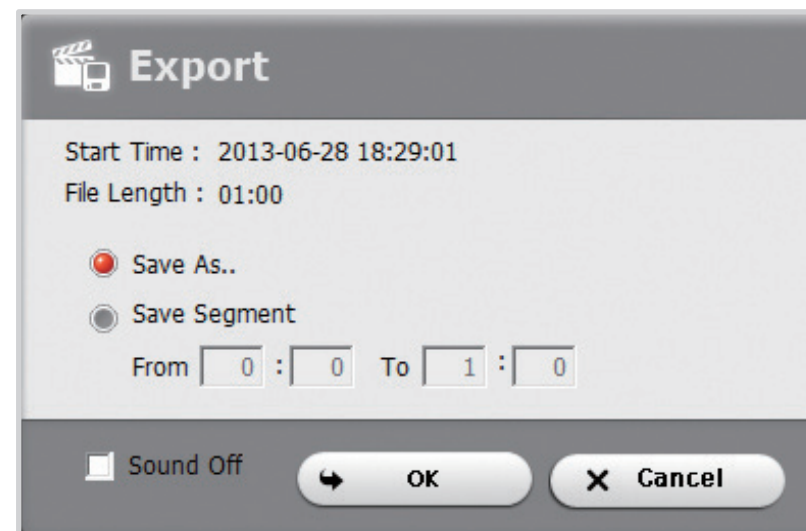
Exporting videos

For Windows users

- 1 Select the video from the recorded video list.
- 2 Right-click the video.



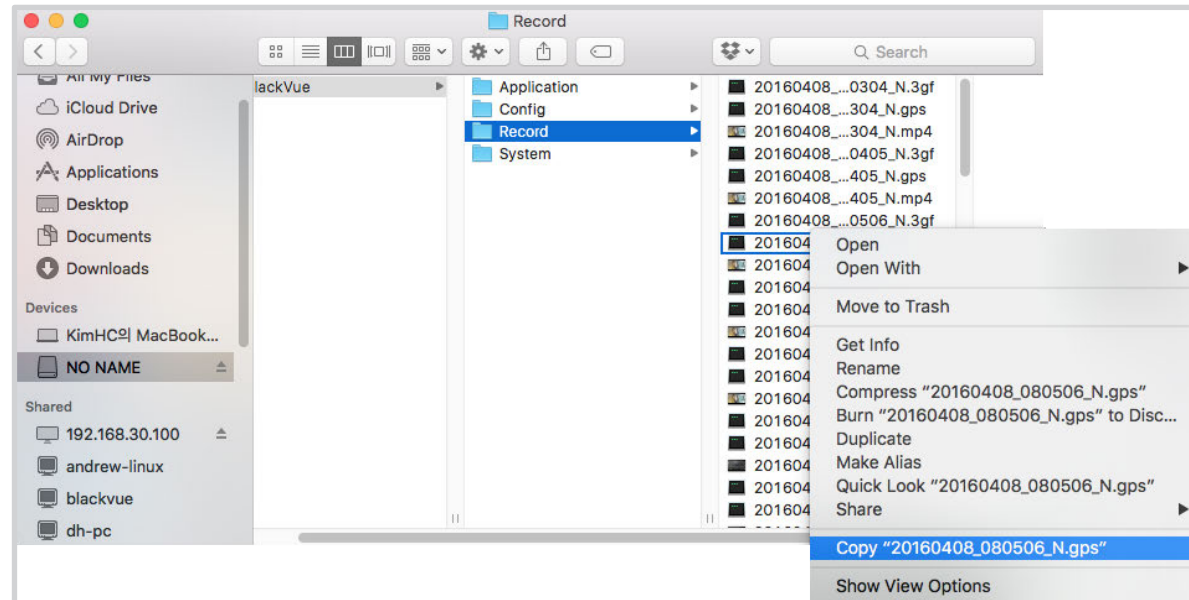
- 3 Click Export.
- 4 Enter a file name and the start and end points (min:sec) of the segment you want to export. To export without audio select "Sound Off".



- 5 Click the **OK** button.
- 6 Select the folder in which to save the file and enter the file name.
- 7 Click the **Save** button.

■ For Mac users

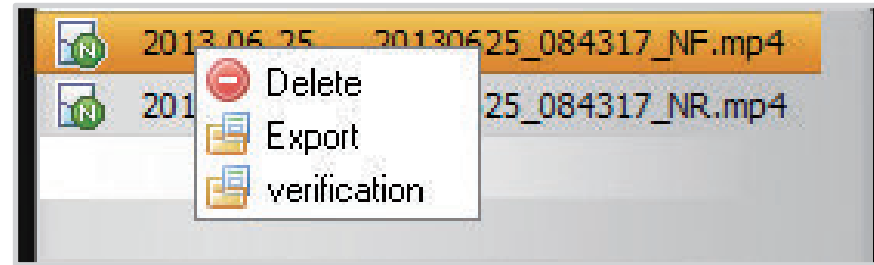
- 1 Navigate to \BlackVue\Record\.
- 2 Select the video from the recorded video list.
- 3 Click Copy "file name".



Verifying videos

The following menu is only available in BlackVue Viewer for Windows.

- 1 Select the video from the recorded video list.
- 2 Right-click the video.



- 3 Click Verification.




- 4 Click the **OK** button.

Formatting the microSD card

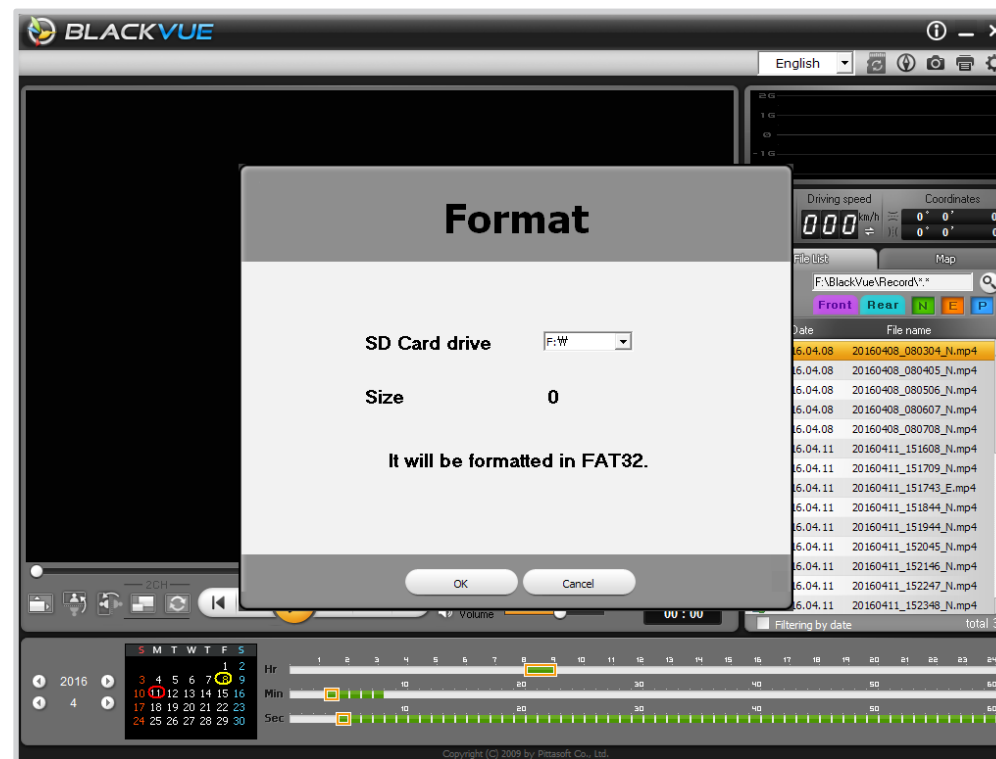
Format the microSD card once a month, or when the BlackVue tells you the card needs maintenance.

Please format the microSD card using BlackVue Windows or Mac Viewer.


Format using Windows Viewer

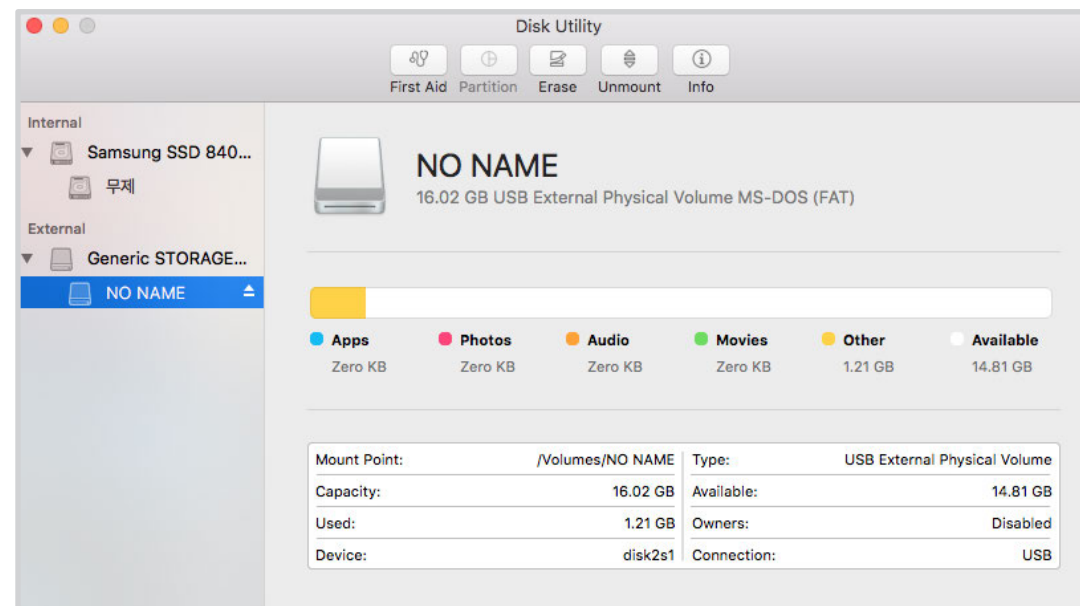
- 1** Download BlackVue Viewer from www.blackvue.com > Support > Downloads and install the program on your computer.
- 2** Insert the microSD card into the microSD card reader.
- 3** Connect the microSD card reader to your computer.
- 4** Launch the copy of BlackVue Viewer that is installed on your computer.
- 5** Click the Format  button.

6 Select the microSD card drive and click **OK**.

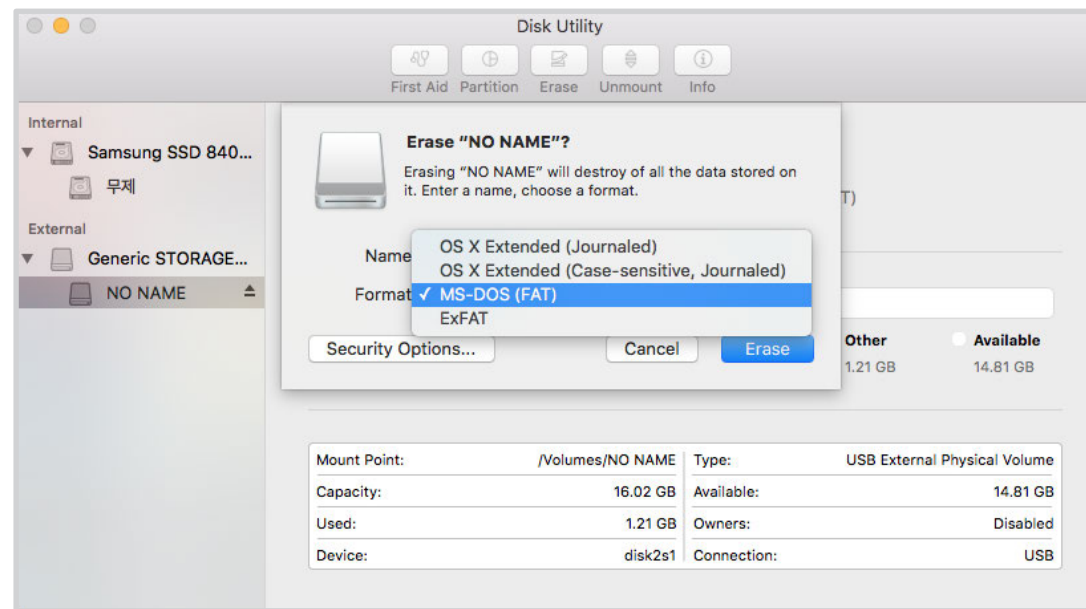


Format using Mac Viewer

- 1 Download BlackVue Viewer from www.blackvue.com > Support > Downloads and install the program on your computer.
- 2 Insert the microSD card into the microSD card reader.
- 3 Connect the microSD card reader to a Mac.
- 4 Launch the copy of BlackVue Viewer that is installed on your computer.
- 5 Click the Format  button.
- 6 Select the microSD card from the list of drives in the left frame.



7 After selecting your microSD card select the Erase tab in the main window.



8 Select "MS-DOS (FAT)" from the Volume Format dropdown menu and click Erase.




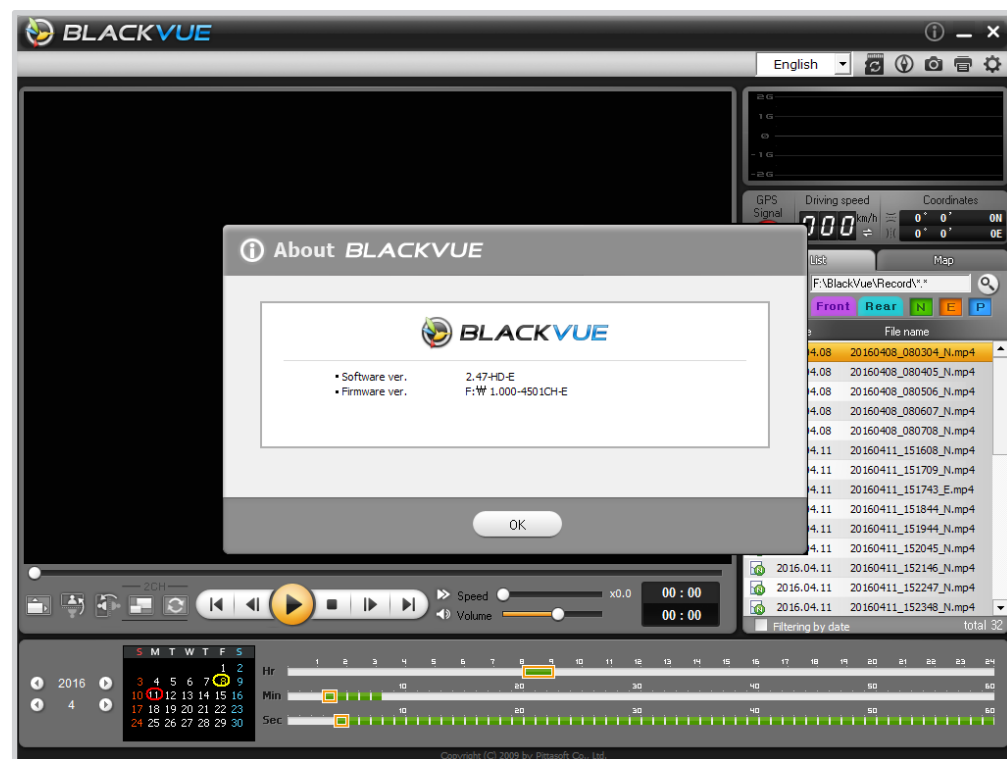
Caution

- If you format the microSD card, all the video files stored in the microSD card will be deleted.
- Back up important video files such as event recording files before formatting the microSD card. PittaSoft Co., Ltd. will not be responsible for the loss of video files that were not backed up.
- Formatting the microSD card once a month is recommended.
- Format the microSD card if the recorded video quality appears to be poor.
- We recommend using the BlackVue microSD card only. Other manufacturer's microSD cards may cause compatibility problems.
- PittaSoft Co., Ltd. will not be held responsible for any problems caused by using another manufacturer's microSD card.

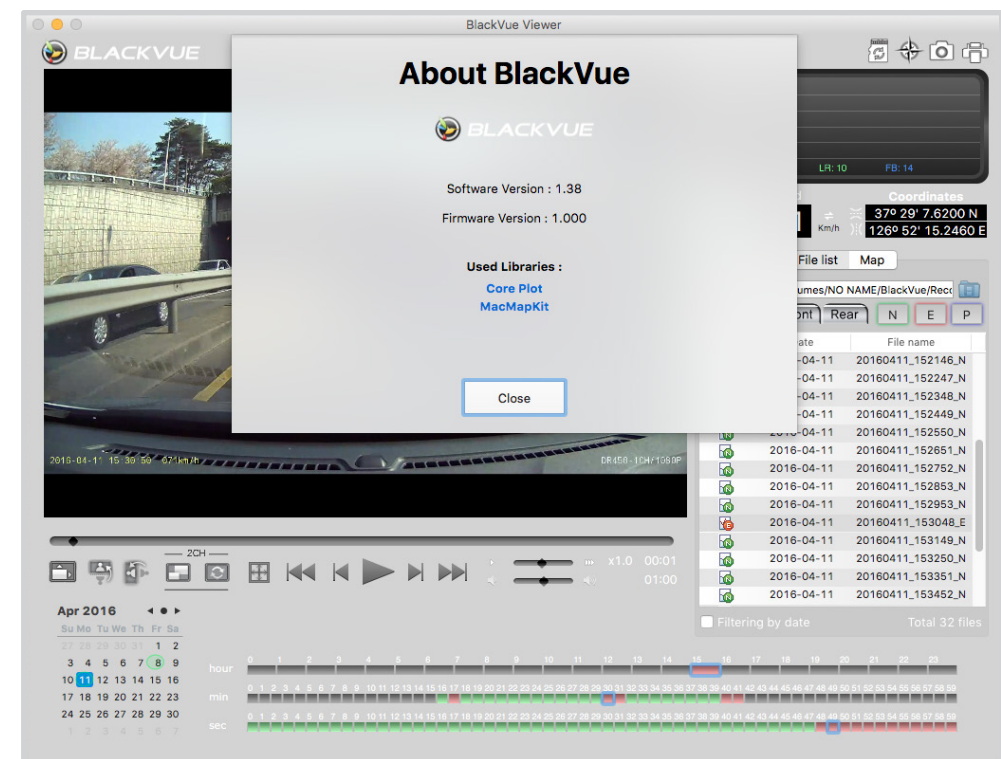
➤ Upgrading the firmware

Keep your BlackVue updated by upgrading the firmware to the latest version. Visit the BlackVue website (www.blackvue.com) to check for any new firmware releases for your BlackVue model.

- 1 Insert the microSD card into the microSD card reader.
- 2 Connect the microSD card reader to a PC.
- 3 Launch BlackVue Viewer and click on the About ⓘ button.
 - For Mac users, click  **BlackVue Viewer** and select About BlackVue from the menu.
- 4 Check the current firmware version of your BlackVue and proceed only if your version is not the latest one.



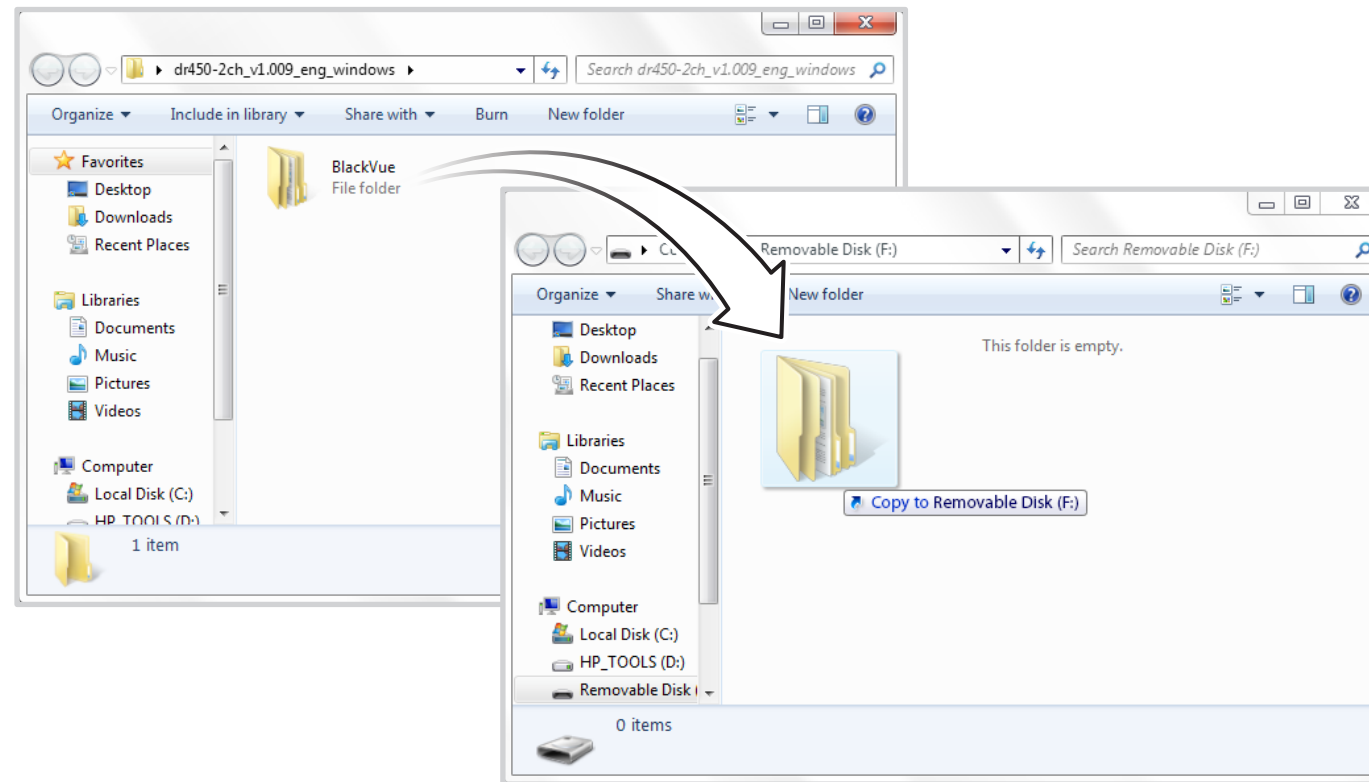
Windows



Mac

- 5 Format the microSD card. See **"Formatting the microSD card"** on page 28.

- 6 From the BlackVue website (www.blackvue.com > Support > Download) download the latest firmware of your BlackVue model in zip format.
- 7 Unzip the downloaded file and copy the BlackVue folder to the microSD card.



- 8 Insert the microSD card into the BlackVue and connect the power to initiate the firmware upgrade. Make sure the power remains on until the upgrade is completed. Any power interruption may prevent the firmware upgrade from completing resulting in malfunction.
- 9 Insert the microSD card into the BlackVue.

Note

- Do not insert or remove the microSD card when the BlackVue is turned on. Doing so may damage the data and cause a malfunction of the microSD card.

10 The firmware will upgrade automatically when the BlackVue is turned on.

 **Note**



- After a firmware upgrade all settings are reset to the defaults to ensure stable operation. Please reconfigure your personal settings (such as time zone, etc.).

Changing settings

BlackVue Viewer language setting

Select your preferred language for the BlackVue Viewer interface from the dropdown list.



BlackVue settings

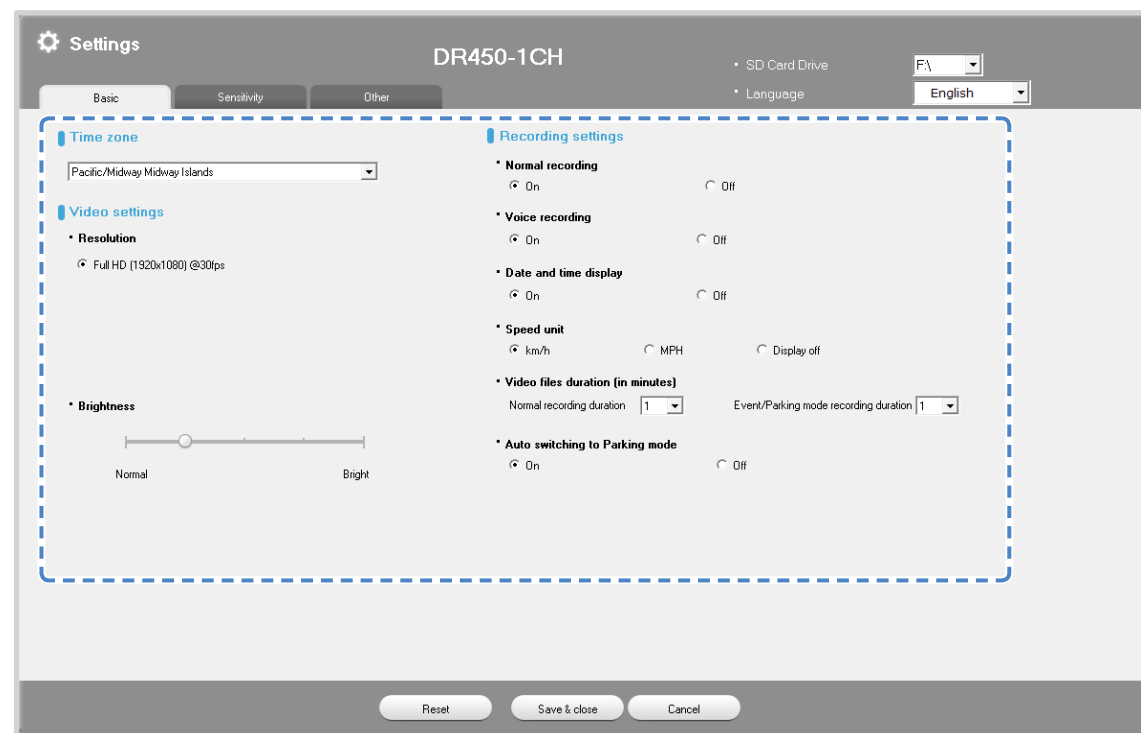
Click on the  or  **BlackVue Viewer** button to open the BlackVue settings panel. You will be able to change most of the BlackVue settings to customize its operation.



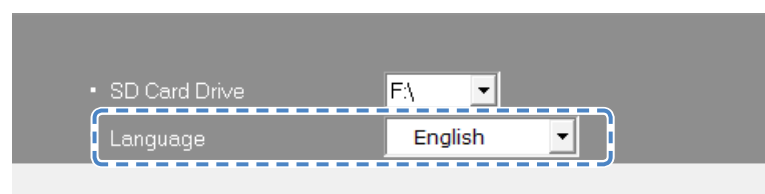
Basic settings

You can set the basic configuration in the **Basic** tab of the **Settings**.

- 1 Click the  or  **BlackVue Viewer** button.
- 2 Click the **Basic** tab.
- 3 Change the settings.
- 4 Click **Save & Close**.



Firmware



Select your preferred language for the firmware from the language dropdown list. The audio announcements by the BlackVue will be in the selected language.

■ Setting my time zone

The initial time zone is set to Pacific/Midway Midway Islands. Select your time zone in the dropdown list. If your city is not in the list, select any other city within the same time zone.

Please note that when you change the time zone and save the setting, the next time you insert the microSD card into the BlackVue it will format the microSD card and restart automatically. Please backup any important videos that are in the microSD card before changing the time zone.

Note: If the displayed time in the recorded videos has repeated issues with accuracy please see **"Running the time setting program" on page 45.**

■ Image brightness setting



Adjust the brightness of the video image by selecting one of 5 brightness levels.

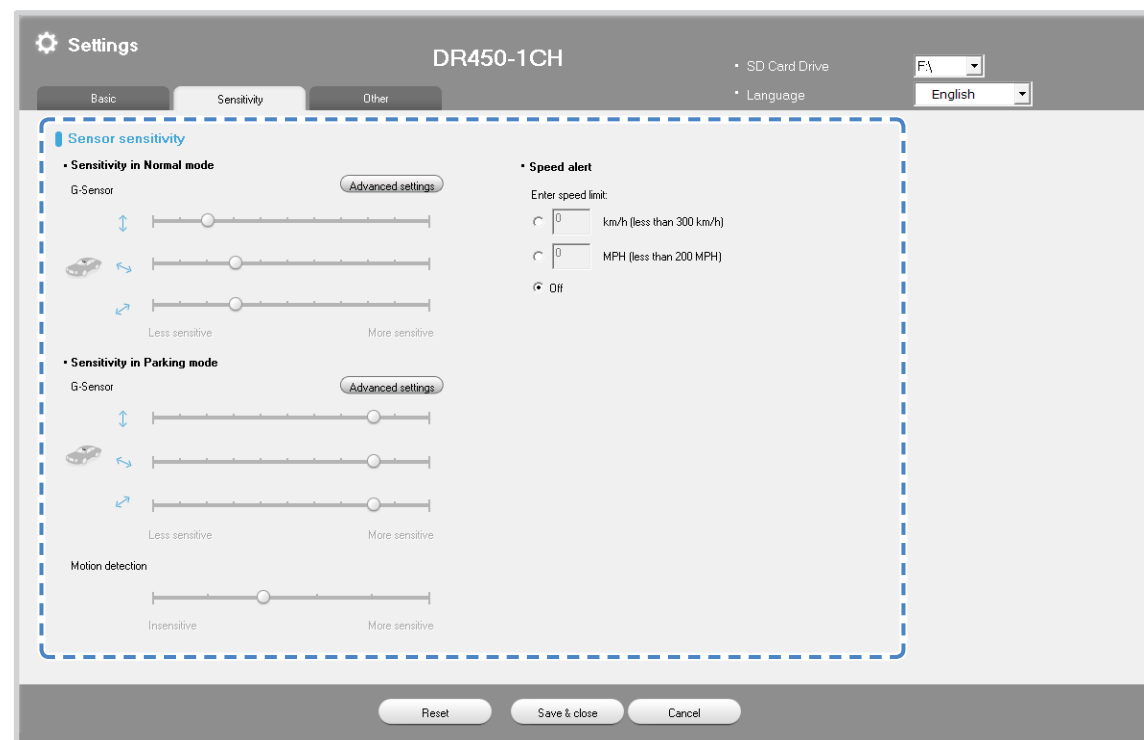
■ Recording settings

Video recording options	Description
Normal recording on/off	When turned off the BlackVue does not record normal recordings.
Voice recording on/off	When turned off the BlackVue does not record audio.
Date and time display on/off	Turn on/off the date and time display on videos.
Speed unit	Select km/h, MPH, or turn off.
Video files duration (in minutes)	Select video clip duration in minutes
Auto switching to parking mode on/off	If enabled, the BlackVue switches from Normal mode to Parking mode when the vehicle is stationary for 10 minutes. If disabled, the BlackVue switches from Normal mode to Event mode.

Sensitivity settings

You can set impact sensitivity (G-Sensor), motion detection, and the speed alert in the **Sensitivity** tab of the **Settings**.

- 1 Click the  or  **BlackVue Viewer** button.
- 2 Click the **Sensitivity** tab.
- 3 Change the settings.
- 4 Click **Save & Close**.



Sensitivity in normal and parking mode


Adjust the sensitivity of the G-Sensor while driving (normal mode) or parked (parking mode). Set the sensitivity to zero to turn off Event recordings by impact detection.

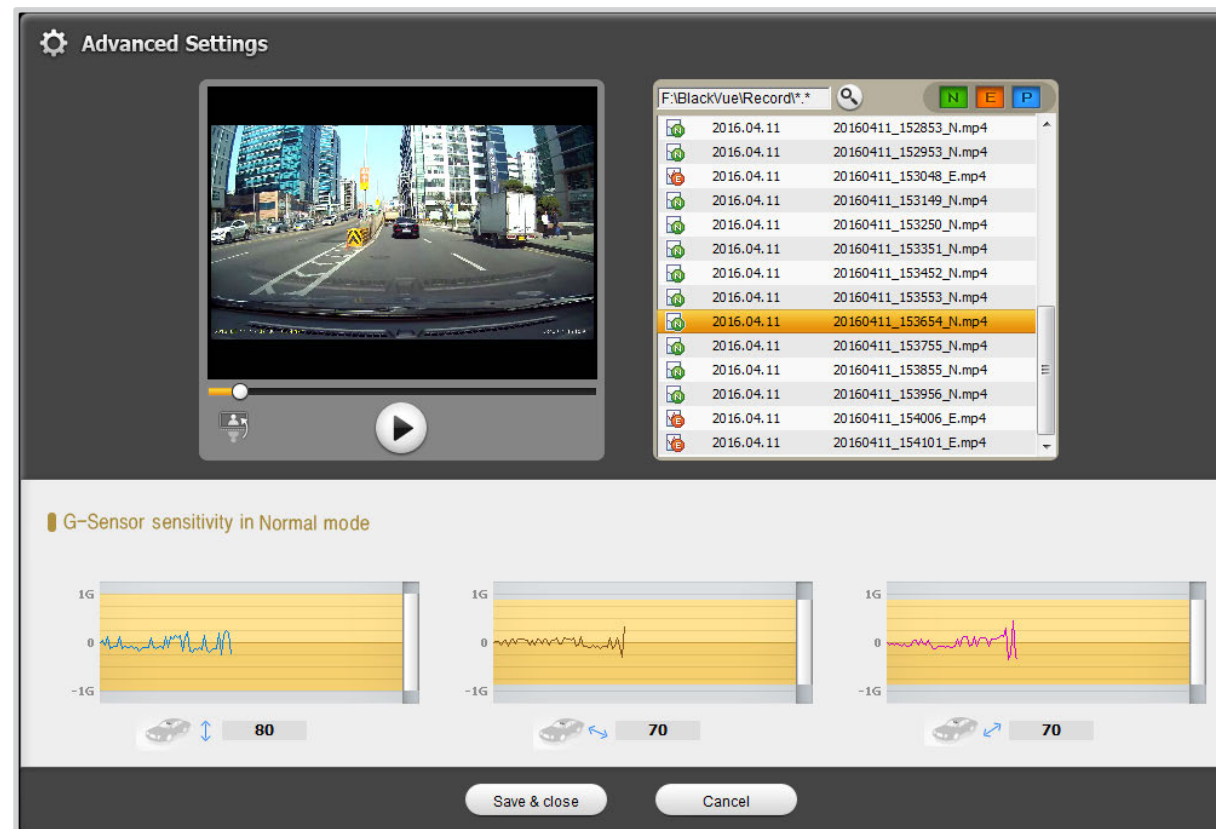
■ Sensitivity of the motion detection (parking mode)

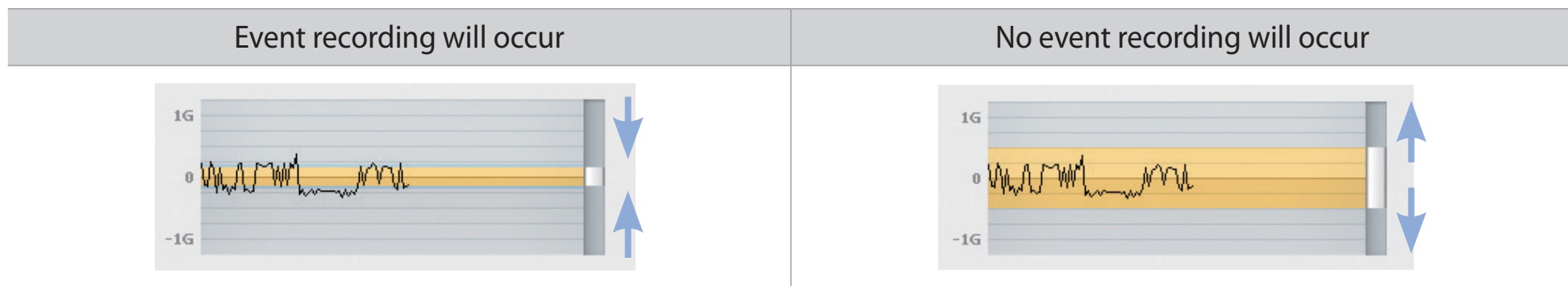
Adjust the sensitivity of the camera's motion detection while parked. Take into account the surroundings of your car's parking location when setting the sensitivity of motion detection.

■ Advanced sensitivity settings for normal and parking mode

Advanced sensitivity settings allows you to fine-tune the event recording G-Sensor threshold, while watching pre-recorded G-Sensor data and video as a reference.

- 1 Click the Advanced Settings button of the recording mode.
- 2 Select the reference video from the list that you want to use to set the threshold of event recording.
- 3 Click the  button or double click the selected video.
- 4 Set the thresholds by adjusting the control bars next to each G-Sensor axis. Any G-Sensor data that crosses over the threshold on any of the 3 axes will trigger an Event recording.





5 Click **Save & Close**.



☐ Speed alert

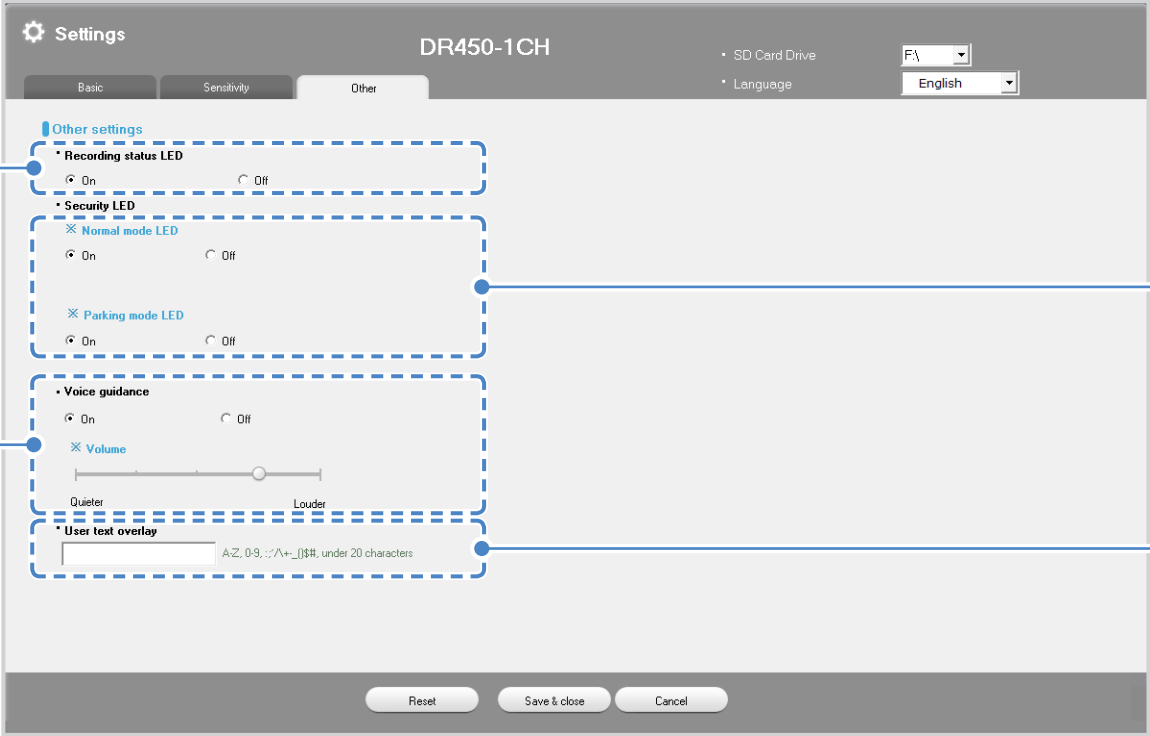
Set a speed limit (up to 300 km/h or 200 MPH) for the speed alert.

When the vehicle exceeds the speed limit, normal mode recording switches to an event recording (with a beep sound) and after a preset duration switches back to normal mode recording.

Other settings

You can adjust other settings such as the LED indicators, voice guidance, volume, and a user text overlay in the **Other** tab of the **Settings** window.

- 1 Click the  or  **BlackVue Viewer** button.
- 2 Click the **Other** tab.
- 3 Change the settings.
- 4 Click **Save & Close**.



You can set the recording status LED on/off.

You can adjust the volume of the voice guidance (announcements) or turn it off

You can set the security LED on/off in normal mode and the parking mode.

You can create a user text overlay of up to 20 characters using a combination of English uppercase characters (A – Z), numbers (0 – 9), and symbols (; ; ' / \ - _ () \$ #). The text is overlaid in the corner of the recorded videos.

Applying the settings

You can automatically apply the configuration by inserting the microSD card into the BlackVue and turning it on. Configure the settings before using the BlackVue.

To reset all settings to their defaults press the reset button in the settings screen of the BlackVue Viewer program.

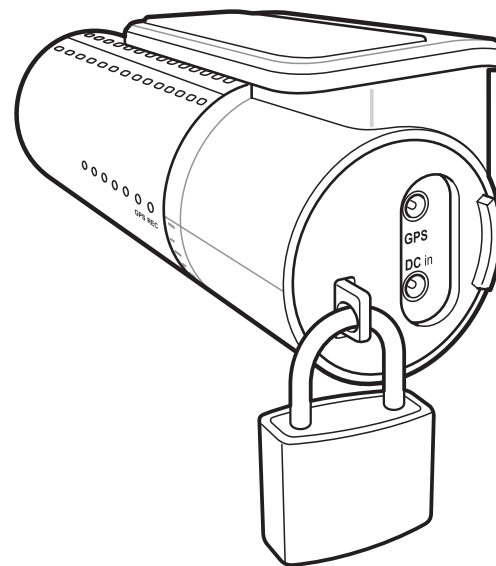
Optional accessories

➤ Padlock (Optional)

You can protect the microSD card using a padlock. To lock the microSD card slot purchase a padlock and lock the microSD lock loop.

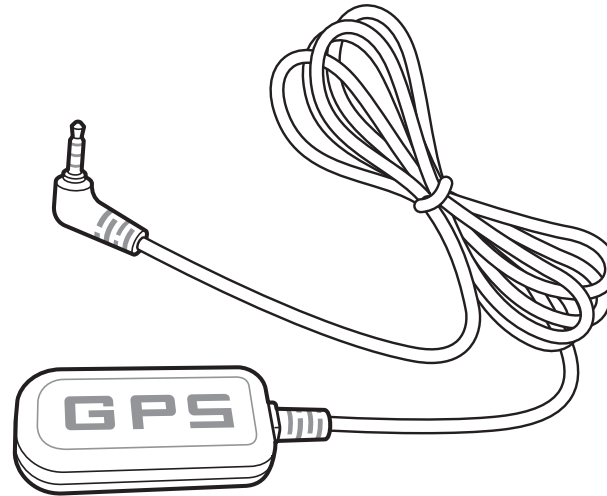
Note

- Check the size of the microSD lock loop on the BlackVue before purchasing a padlock.
- Even when the microSD card slot is locked with a padlock, there is the possibility that the card may be forcibly removed by breaking the lock loop, cover or BlackVue.
- Copy important videos from the microSD card to other storage media. PittaSoft Co., Ltd. will not be held liable for any loss of videos due to theft of the microSD card.



➤ GPS receiver (Optional)

If you do not install an external GPS receiver, videos are recorded without GPS coordinates and driving speed information. To include speed, recording location, and the driving route data in the videos, install an external GPS receiver.

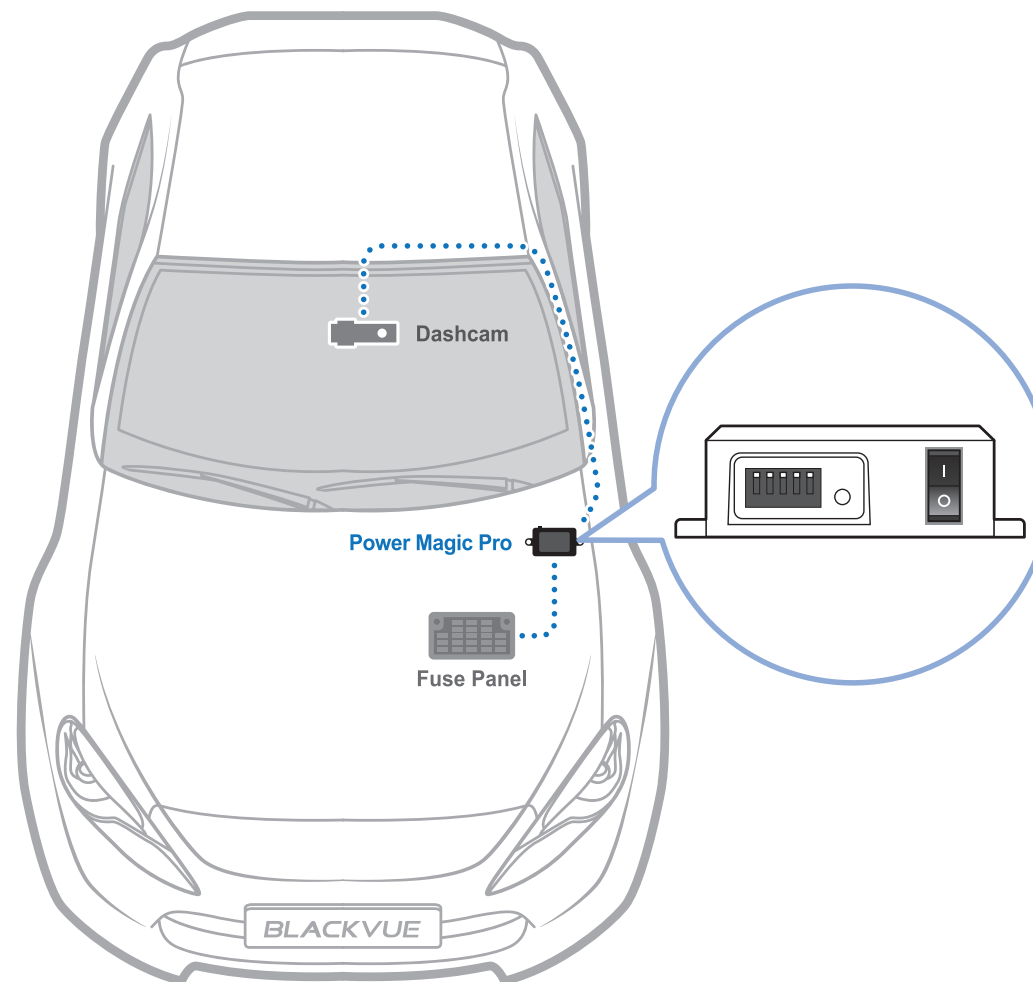


Note

- If you purchased the product without an external GPS receiver, please visit the BlackVue website (www.blackvue.com) for information about purchasing a GPS receiver separately.

➤ Parking mode hardwiring kit (Optional)

The BlackVue will turn off when the engine is turned off. To record video while the engine is turned off, a hardwiring kit (such as the Power Magic Pro) is required. The Power Magic Pro powers your dashcam when the engine is off by hardwiring it to the automotive battery. A low voltage power cut-off function and a parking mode timer protect your vehicle's battery from discharge.



Running the time setting program

- 1 Remove the microSD card from the BlackVue and insert it into the microSD card reader.
- 2 Connect the microSD card reader to a PC.

Note

- If you insert the microSD card into the BlackVue after setting the time, the BlackVue will automatically format the microSD card. Therefore, please backup all important video files before setting the time.

- 3 Go to the BlackVue website (www.blackvue.com >Support > Download) and download the time setting program in zip format.
- 4 Unzip the downloaded file and run the time setting program.
- 5 Select the **SD Card Folder** (microSD card drive).
- 6 Set the time.

Note

- Set the time to the estimated time in the future when you will start recording with the BlackVue. Please take into account the time it will take to remove the microSD card from your computer, insert it into your BlackVue and boot up the BlackVue.
- Booting takes about 10-15 seconds after the BlackVue turns on.

- 7 Click the Save button.
- 8 Remove the microSD card from your computer, insert the microSD card into the BlackVue and turn it on. After booting up the new time setting will be applied.

Frequently asked questions

About using the BlackVue

- **How can I protect the microSD card?**
See page 42.
- **How can I remove the camera from the mounting bracket?**
See page 8.
- **What do the different LED colors and blinking patterns mean?**
See page 8.

About the microSD card

- **What should I do if the microSD card is full?**
See page 28.
- **How do I remove or insert the microSD card?**
See page 13.
- **How can I read the microSD card on a PC?**
See page 14.
- **How can I use a 64 GB or 128 GB microSD card?**
See page 28.

About recording videos

- **For how long can I record videos?**

See page 50.

- **How can I set the time?**

See page 37.

About playing back videos

- **What is the meaning of the colors and letters used in the file list?**

See page 18.

- **How can I save (capture) an image from a video?**

See page 23.

- **How can I print an image of from a video?**

See page 23.

- **How can I check the GPS information?**

See page 21.

About changing the settings

- **How can I change the language?**

See page 35.

- **How can I change the time?**

See page 45.

- **How can I change the brightness of the video?**


See page 36.

- **How can I turn off normal mode recording?**

See page 36.

- **How can I turn off voice recording?**
See page 36.
- **How do I enable or disable the date and time stamp on the camera?**
See page 36.
- **How can I change the speed unit?**
See page 36.
- **How can I change the duration of the video recording files?**
See page 36.
- **How can I disable auto-switching between Normal and Parking modes?**
See page 36.
- **How can I change the impact sensitivity?**
See page 38.
- **How can I change the speed at which a speed alert is issued?**
See page 38.
- **How can I adjust the voice guidance settings?**
See page 41.
- **How can I adjust the volume of the dashcam voice guidance?**
See page 41.
- **How can I upgrade the firmware?**
See page 32.

Product specifications

Model Name	DR450-1CH
Color/Size/Weight	Black / Width 115.9 mm x Height 34 mm / 75 g
Memory	microSD Card (8 GB / 16 GB / 32 GB / 64 GB / 128 GB)
Recording Modes	Normal Recording, Event Recording (Impact Detection), and Parking Mode Recording (Motion & Impact Detection) * For Parking mode recording, a Parking Mode Hardwiring Kit (Power Magic Pro) is required.
Camera	CMOS Sensor (Approx. 2.0 M Pixel)
Viewing Angle	Diagonal 120°, Horizontal 98°, Vertical 55°
Resolution/Frame Rate	Full HD (1920x1080) @ 30 fps
Video Compression Mode	MP4
GPS	External (optional)
Microphone	Built-in
Speaker (Voice Guidance)	Built-in
LED Indicators	Recording LED, GPS LED, Security LED
Sensor	3-Axis Acceleration Sensor
Backup Battery	Built-in super capacitor
Input Power	DC 12 V – 24 V (DC Plug:  (Ø3.5 x Ø1.35), MAX 1 A/12 V)
Power Consumption	Avg. 230 mA (2.76 W at 12 V, when there is no external GPS receiver) Avg. 260 mA (3.12 W at 12 V, when an external GPS receiver is connected) * Actual power consumption may vary depending on use conditions and environment.
Operation Temperature	-20°C – 60°C (-4°F – 140°F)
Storage Temperature	-20°C – 70°C (-4°F – 158°F)
Certifications	CE, FCC, RoHS, RCM, WEEE
Software	BlackVue Viewer * Windows XP or higher (Windows 8 supported) and Mac Leopard OS X (10.5) or higher

Recording time

Your dash camera will automatically turn on and start recording when it starts receiving power.

Memory Capacity.	Resolution	Full HD (1920x1080)@30 fps
8 GB		3 hr 30 min
16 GB		6 hr 50 min
32 GB		13 hr 30 min
64 GB		26 hr 50 min
128 GB		53 hr 30 min
Bit rate		5 MBits / Sec

Note

- On microSD cards, if the microSD card is full, older files are deleted first to make space for newly-recorded videos. Copy important files, such as event recording files, to other storage media.
- Recording time is different depending on the memory capacity of the microSD card and the resolution of the video.

Disposal of your BlackVue




1. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities. Contact local authorities to learn about disposal and recycling options available in your area.
2. The correct disposal of your BlackVue will help prevent potential negative consequences for the environment and human health.
3. For more detailed information about disposal of your BlackVue, please contact your city office, waste disposal service or the shop where you purchased the product.

Before Requesting Service

It is required that users back up important data regularly from the storage device (to other separate media). Depending on the situation, it will be necessary to delete the data from the internal storage device (component). It might be necessary to delete all the data from the product for service. So it is required that users back up important data by themselves before requesting service. All servicing and products are provided on the basis that the user has already backed up the data, and as such there is no additional back-up process. Therefore, it is important to note that we are not responsible for any data lost during service.

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Product | Car Dashcam

Model Name | DR450-1CH

Manufacturer | Pittasoft Co., Ltd. / South Korea

Address | 7F, BYC HIGHCITY Building A 131, Gasan Digital 1-ro, Geumcheon-gu, Seoul, Republic of Korea, 08506

Customer Support | cs@pittasoft.com

Product Warranty | One-Year Limited Warranty

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www.blackvue.com

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