

BLACKVUE
Car Dashcam
BLACKVUE 2CH Wi-Fi Lite

For your safe driving

BLACKVUE 2CH Wi-Fi Lite

DR530W-2CH Manual

PITTASOFT

BLACKVUE 2CH Wi-Fi Lite

DR530W-2CH

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Introduction to the Manual

Thank you for purchasing a BlackVue by PittaSoft Co., Ltd.

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

Before using the product, make sure to read through this manual so as to use the product in the correct way.

To enhance the performance of the product, the contents of this instruction manual may be changed without prior notice.

Warranty & Support

- **This product records and saves videos of vehicle accidents, but it is not guaranteed to record all accidents. Accidents with light impact that is not enough to activate the impact detection sensor may not be recorded.**
- In accordance with Personal Information Security Law & related legislation, PittaSoft Co., Ltd. will not be held responsible for any problem due to illegal use of this product.
- The recorded video produced by this product constitutes the secondary data that may help to determine the circumstances of an accident. PittaSoft Co., Ltd. will not be held responsible for any loss or damage caused by any accident.

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Caution

- A formatted microSD card is provided when you purchase the product. Insert the microSD card into BlackVue, and turn on the power. The microSD card will be initialized, and programs such as BlackVue Viewer will be installed.

Cautions for Safety

The purpose of these cautions is to maintain user safety and avoid damage to property. Please make sure to read through this manual so as to use the product in the correct way.



DANGER

Death or property damage can be caused for users if the following directions are not followed:

- **Do not disassemble, repair, or modify the product yourself.**

It can cause fire, electric shock, or malfunction. For internal inspection and repair, call your customer service center.

- **If any foreign matter gets inside the product, detach the power cord straightaway.**

Call the customer service center for repair.

- **Do not operate the product while driving.**

It can cause an accident. Stop or park your car in a safe place to operate it.

- **Do not install the product where it can interfere with the driver's vision.**

It can cause an accident.

- **Do not use a damaged or modified power cord. Use the cords provided by the manufacturer.**

Otherwise it can cause explosion, fire, or malfunction.

- **Do not operate the product with wet hands.**

It can cause electric shock.

- **Do not install it in an environment with high humidity, or combustible gases or liquids.**

It can cause explosion & fire.



WARNING

Death or serious injury can be caused for users if the following directions are not followed:

- **Do not leave the product where infants, children, or pets can reach it.**

They might swallow small components, or their saliva could get into it and cause an explosion due to a short circuit.

- **While cleaning the inside of the car, do not spray water or wax directly onto the product.**

It can cause fire, electric shock, or malfunction.

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

Call the customer service center or the dealer.

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

A dirty terminal can cause excessive heat and fire.

- **Use the correct input voltage.**

Otherwise it can cause explosion, fire, or malfunction.

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

Otherwise it can cause fire.

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

It can cause external deformation of the product or fire. Use the product and peripherals where ventilation is ensured.



CAUTION

Injury or property damage can be caused for users if the following directions are not followed:

- **Do not spray cleaning products directly onto the outside of the product.**

It can cause discoloration, cracks, or malfunction.

- **If the product is used outside the optimal temperature range (0°C ~ 60°C), performance can decline or malfunction can be caused.**

- **Make sure that the product is installed properly.**

The product can fall as a result of vibration, and may cause physical injury.

- **While entering or exiting a tunnel, during daytime in the face of bright sunlight, or at night with no light, the quality of recorded video can 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 it to be indistinct.**

- **Prolonged use of the product can increase the interior temperature and cause burns.**

- **microSD cards are a consumable so replace them after prolonged use.**

They may not record video correctly after a long time in use, so check their recording capability periodically and replace it as necessary.

- **Clean the lens regularly.**

Foreign material attached to the lens can affect the recording quality.

- **Do not remove the microSD card while it is saving or reading data.**

The data may be damaged or malfunction caused.

- **Do not use the product with its cover opened.**

- **It is recommended to install the product at the BlackVue installation center. You can check the the BlackVue installation center from the BlackVue homepage (www.blackvue.com).**

- **It is recommended to remove the power cord if the product (BlackVue/Battery Discharge Prevention Device) is not used for a long time.**

Checks for the microSD Card

Refer to the followings for trouble-free use of your microSD card.

- It is recommended to format it once a week.
- If the recorded video suffers from break-up, format the microSD card.
- For stable function, format it with programs recommended by the SD card association. For more details, refer to the BlackVue web site (www.blackvue.com).
- Before formatting it, copy important files to other storage media to store them.
- Press the **Wi-Fi** button on the side for 10 seconds to format the microSD card without using a PC.
- Insert the formatted microSD card into the product so that the microSD card is automatically initialized and the firmware is installed on it.
- Insert or remove the microSD card only when the product is turned off.
- microSD cards are a consumables and they are guaranteed for 6 months.
- Other manufacturer's microSD cards can cause compatibility problems so it is recommended to use a PittoSoft microSD card.
- **The use of the Power Magic (the Battery Discharge Prevention Device) can shorten the microSD card lifespan.**

Product Features



High-class design with functionality

Simple but luxurious design with the functionality of a 360-degree revolution to set any angle freely and simple but luxurious design



2CH Wi-Fi Video Shooting

Checking the front video as well as rear video through the built-in Wi-Fi



Megapixel lens & 2M-pixel CMOS sensor

Clearer vision with high-resolution megapixel lens during both day/night-time driving



VOD & real-time live view function

With the BlackVue app, video can be played regardless of place and time (iOS/Android supported)



High-quality wide-angle lens (128°)

Maximized viewing angle to record accurate video of any accident



Diverse recording options (Normal/Event/Parking)

Event recording and automatic conversion & deactivation of parking mode



High-compression recording mode to extend microSD card life

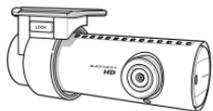
Efficient memory usage with high-compression storage method



Support of viewer programs for Windows PC and Mac

BlackVue viewer program which allows you to configure various settings including resolution, voice recording and Wi-Fi and play back the recorded video

Package Components



Front Camera



Quick Start Guide



Power Cord



Cable Clips (8 EA)



Double-sided Tape for the Mounting Bracket



microSD Card
(Including BlackVue Viewer and Manual)



microSD Card Reader



Rear Camera



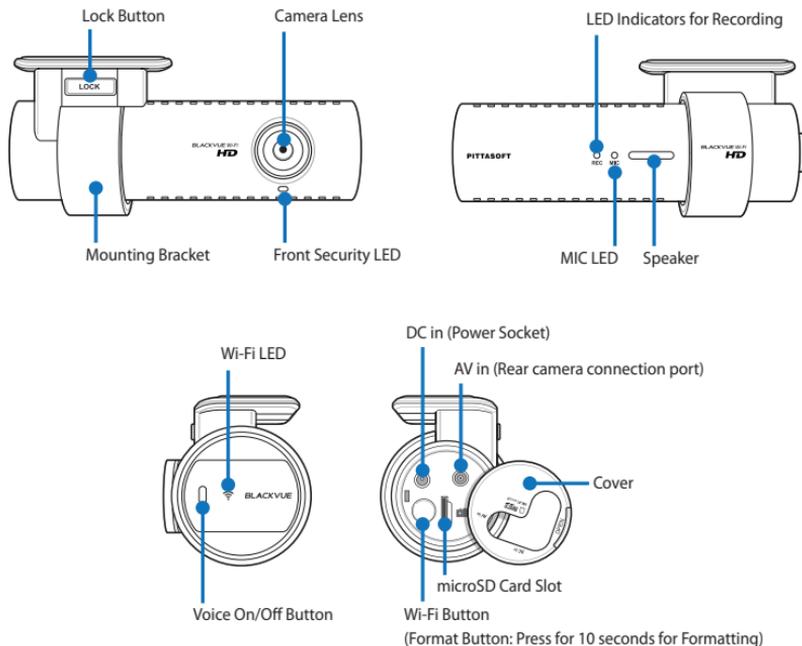
Rear Camera
Connection Cable

Note

- Pictures of the components may differ from the actual ones.
- To enhance the performance of the product, components may be changed without prior notice.
- The package components can be purchased additionally from the BlackVue homepage (www.blackvue.com).

Names of Each Part

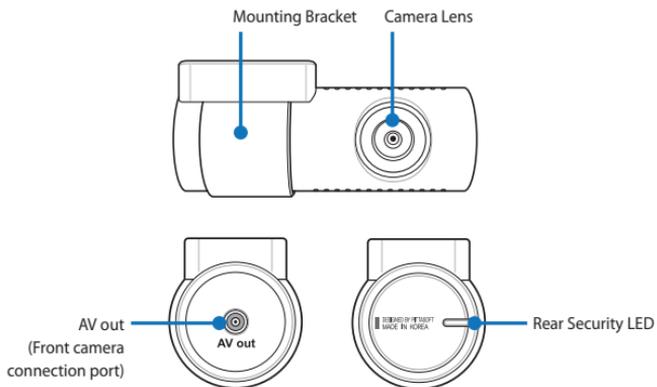
Front Camera



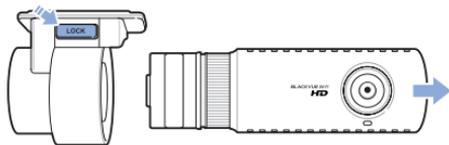
Note

- Tap the voice On/Off button to turn the voice recording function on or off.
- Press the **Wi-Fi** button on the side for 10 seconds to format the microSD card without using a PC.

□ Rear Camera

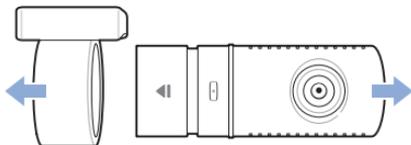


➤ How to Attach & Detach the Mounting Bracket of the Front Camera



- 1 Pull the the front camera out of the mounting bracket with the **Lock** button pressed.
- 2 Insert the front camera into the mounting bracket until you hear clicking sound, to attach it.

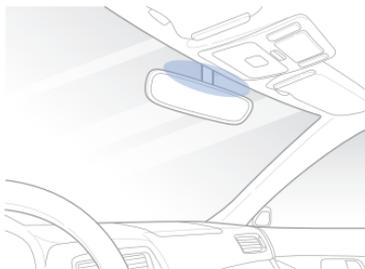
➤ How to Attach & Detach the Mounting Bracket of the Rear Camera



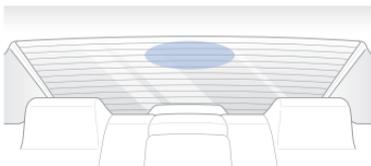
- 1 Hold the mounting bracket and pull the the front camera out of the mounting bracket.
- 2 Insert the rear camera into the Mounting Bracket until you hear clicking sound, to attach it.

> Checking Installation Position

- 1 It is recommended to install the front camera at the back of rear view mirror. Clean any foreign matter and moisture from the place where the product will be installed.



- 2 It is recommended to install the rear camera at the top of the rear window of the vehicle.

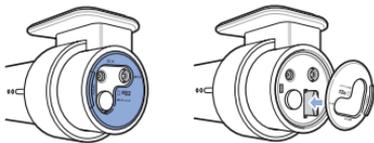


Note

- Do not install the product where it can interfere with the driver's vision.
- It is recommended to install the product at the designated BlackVue installation center.

▶ How to Insert & Remove the microSD Card

- 1 Open the cover on the side of the front camera.
- 2 Insert the microSD card into the microSD card slot, as shown in the picture.
- 3 To remove the microSD card, press the microSD card once and then pull it out. Make sure that the microSD card doesn't pop out while trying to remove it.



⚠ Caution

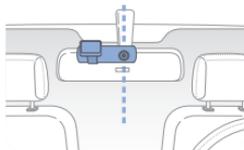
- Do not remove the microSD card while it is saving or reading data. The data may be damaged or malfunction caused.
- Copy important data to other storage media to store. PittaSoft Co., Ltd. will not be held responsible for data loss due to user negligence.

📝 Note

- Insert or remove the microSD card only when the product is turned off.
- microSD cards are consumables. Replace them after prolonged use.

Installation

- 1 Stop the engine where there is some light and in a safe place, and then remove the key.
- 2 Attach the front camera to the windshield glass with the camera lens located in the middle of the vehicle using the double-sided tape. After installing the product, remove the lens cap.

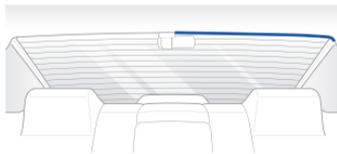
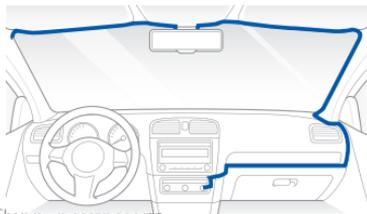


- 3 Use the power cord to connect the DC in of the front camera to car's power socket.

Note

- It is necessary to use Power Magic (the Battery Discharge Prevention Device) to record video while the car is parked.
- To use BlackVue with other equipment that uses a power cable, purchase and use a dual power outlet adaptor.

- 4 Attach the rear camera to the rear window glass with the camera lens located in the middle of the vehicle using the double-sided tape.
- 5 Use the rear camera connection cable to connect the AV in of the front camera to the AV Out of the rear camera.
- 6 Use the cable clip to organize the cable so that it doesn't interfere with the driver's vision.



7 Adjust the lens angle of the camera.



Note

- After adjusting the angle of the camera lens, remember the angle of the mounting bracket so that it can be installed at the same angle next time.
- With smartphone and Wi-Fi connections, it is possible to adjust the angle of the camera lens while watching real-time video. (22 page)

8 Start the engine and check if the product works properly.

Caution

- Do not remove the microSD card while it is saving or reading data. The data may be damaged or malfunction caused.
- Set the time (time zone) first before using the BlackVue for the first time. (34 page)

Note

- After a test drive, check if video was correctly recorded.
- Recorded video is saved in the MP4 format.

▶ Normal Recording

- 1 When the engine is started, the BlackVue is turned on automatically.
- 2 When the BlackVue is turned on, normal recording is automatically started.



Note

- If Power Magic (Battery Discharge Prevention Device) is connected, the BlackVue is not turned off.
- The normal recording function can be disabled in the BlackVue viewer configuration. (34 page)

▶ Parking Mode Recording

- 1 If the car doesn't move for 5 min or longer when in normal mode, it is automatically converted to parking mode recording.
- 2 In parking mode recording, if movement or impact is detected by the camera, video is recorded.



Note

- To use parking mode recording while the engine is stopped, connect Power Magic (Battery Discharge Prevention Device).
- Automatic conversion function of parking mode recording can be disabled in the BlackVue viewer configuration. (34 page)
- In parking mode recording, the recording frame is reduced to 15 fps.

Event Recording

- 1 If an impact is detected in normal or parking mode recording, event recording is started.
- 2 It records video for 5 seconds before and 55 seconds after the impact.

Note

- Sensitivity to impact can be adjusted in the BlackVue viewer configuration. (36 page)
- Event recording time can be adjusted in the BlackVue viewer conguration. (34 page) If you set the event recording time for 2 minute, it records video for 5 seconds before and 115 seconds after the impact.

Normal Recording

Playback Using a Smartphone

With a smartphone that supports microSD cards video can be played back.

1 Turn off the BlackVue and remove the microSD card.



Note

- For the details on how to remove the microSD card, refer to **How to Insert & Remove the microSD Card**. (15 page)

2 Insert the microSD card into the smartphone.

3 Open an App to play back recorded videos and select the movie you want to play back.



Note

- How to play back recorded videos may differ between smartphones, so refer to your instruction manual for the details.
- If there are many recorded videos in the microSD card, it may take a long time to load the file.
- With the BlackVue App, it's easy to play back videos and the Live View function can be used. For details of the BlackVue App, refer to **How to Playback using the BlackVue App**. (22 page)

□ How to Playback using a PC

Recorded videos can be played back with a movie playback program on a PC.

- 1 Insert the provided microSD card into a microSD card reader.



- 2 Connect the microSD card reader to the PC.



- 3 Open an application to play back recorded videos and select the movie you want to play back from the removable drive.

Note

- For how to play back using the BlackVue viewer, refer to **Video Playback**. (28 page)

▶ How to Playback using the BlackVue App

1 Install the BlackVue App and open it in the smartphone. The BlackVue App can be downloaded from the Google Play store, Apple App Store, and Windows store.

📄 Note

- The BlackVue application can be used with Android 2.3 or later, iOS 5.0 or later, and Windows 8.0.
- Some functions may not be supported depending on the smartphone.

2 Press the **Wi-Fi** button on the side of the product, to turn on Wi-Fi.



3 Tap the **Wi-Fi** button in the BlackVue App. Select the device you want to connect and, enter the password. (e.g. DR530W-A682DE) Tap the **OK** button to connect it to the selected device. The initial password is **blackvue**, but the user can change it.



Note

- If you save the connection information when connecting using Wi-Fi, you can tap the **Wi-Fi** button in the BlackVue App to connect it without turning on the Wi-Fi function of the smartphone.
- For the Live View function, Wi-Fi can be used within a 10 m range, although the range may vary in some circumstances.
- For playback of recorded videos using Wi-Fi, reception may vary according to the data transfer rate.
- For details about how to configure Wi-Fi, refer to **Wi-Fi & Other Configuration**. (38 page)
- If you do not use the Wi-Fi function for 10 minutes, it turns off automatically. And, you cannot change the time.

4 Select the recorded video in the video list you want to play back.



Note

- Tap the **Live View** button to check the video in real time.
- For the details about the BlackVue App, please refer to the BlackVue App manual. You can download the BlackVue App manual from the BlackVue website (www.blackvue.com).

Installation & Execution

How to Install

Dedicated BlackVue viewer can be installed in a PC.

- 1 Insert the provided microSD card into a microSD card reader.



- 2 Connect the microSD card reader to the PC.



- 3 Execute the 'BlackVueSetup(HD).exe' file in the 'BlackVue\Software' folder.
- 4 Install the program according to the installation program instruction. When the installation is finished, the BlackVue viewer icon is displayed on the desktop.
- 5 Double-click the BlackVue Viewer icon to execute the program.

Note

- Only the English version of BlackVue viewer is available for Mac, and the functions & screen may be different from the BlackVue viewer for Windows.

□ How to Execute Without Installation

It is possible to execute the dedicated BlackVue viewer without installation.

- 1 Insert the provided microSD card into a microSD card reader.



- 2 Connect the microSD card reader to the PC.



- 3 Double-click 'BlackVue.exe' in the 'BlackVue\Application' folder.

Screen Description



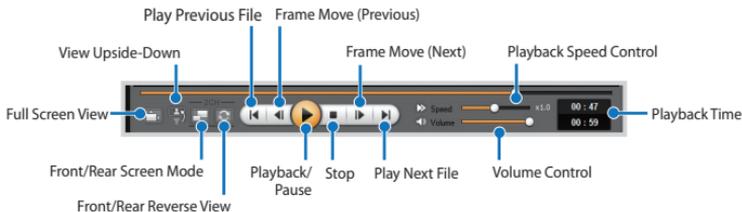
No.	Name	Description
1	Playback Screen for Recorded Videos	Videos can be played back using this screen. The mouse can be used to zoom in/out.
2	Language Setting	If you change the language on playback screen, the language for BlackVue Viewer can be changed. For details about language configuration for BlackVue, refer to the Basic Configuration . (34 page)
3	G-Sensor Information	G-sensor information can be checked, at the time the video was recorded.

No.	Name	Description
4	Recorded Video List	<p>Using the file list and map tab, the recorded video list, and where a video was recorded can be checked.</p> <p>You can display only the rear camera files in the recorded video list by clicking Front, and You can display only the front camera files in the recorded video list by clicking Rear.</p> <p> : This is an normal recording file and marked with green in the timeline.</p> <p> : This is an event recording file and marked with orange in the timeline.</p> <p> : This is a parking mode recording file and marked with blue in the timeline.</p>
5	Timeline	<p>Video can be explored with the date, hr, min, and sec of when a video was recorded. For details on the timeline, refer to the Timeline. (30 page)</p>
6	Playback Option Button	<p>You can adjust the screen, playback speed or volume while a recorded video is played back. For the details on the playback option buttons, refer to How to Control the Playback of Recorded Video. (28 page)</p>

Video Playback

How to Control the Playback of Recorded Video

The recorded video can be played back in full screen mode and be reversed upside down. The playback speed can be adjusted.



Note

- While a recorded video is played back, double-click the screen to switch to full screen view. Double-click the screen again or press ESC to return to default view.
- While playing back a recorded video, use the mouse wheel to zoom in/out.
- While playing back a recorded video, right-click the screen to view 100 % zoom-in screen.

Magnifying Glass

Some parts of a recorded video can be zoomed in while playing back.

Left-click the screen while a recorded video is being played back to see a partial zoom-in window and to use it to identify the number plate of a car while moving it.

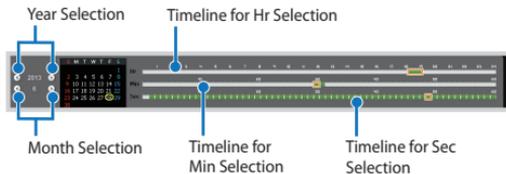


Note

- To use the Magnifier function, you should enable only either front video display or rear video display by pressing Front or Rear on the recorded video list.
- You can use the Magnifier function only in BlackVue Viewer for Windows.

Timeline

Video can be explored with the date, hr, min, and sec of when a video was recorded.



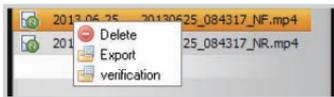
Note

- In the date selection area, the date with a recorded video is marked by a red circle and the currently-selected date is marked by a yellow circle.

□ How to Manage Files

With the recorded video list, a file can be deleted or saved with a different name.

- 1 Select a file from the recorded video list and right-click it.



- 2 To delete a file, click **Delete**.
- 3 To save it with different name, click **Export** and select the option you want.



📄 Note

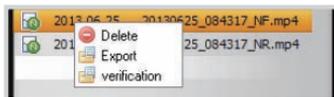
- When you select **Sound Off**, the voice is removed from the recorded video to be saved.

- 4 Press the **OK** button and select the file name you want, together with the path.
- 5 Press the **Save** button to finish.

□ How to Verify Files

With the recorded video list, a file can be verified forgery.

- 1 Select a file from the recorded video list and right-click it.



- 2 Click **Verify** and click **OK** button.



How to Save as an Image

While playing back a recorded video, some parts can be saved as images if you want.

- 1 Select a file from the recorded video list and play it back.
- 2 From the image to be saved, click the  button.

Note

- Use the timeline or press the  /  button to explore detailed images.

- 3 Press the  button.

- 4 Select the file name you want, together with the path, and click the **Save** button.

Note

- JPG and BMP formats are supported for image files.

How to Print Out an Image

While playing back a recorded video, some parts can be printed out as images if you want.

- 1 Select a file from the recorded video list and play it back.
- 2 From the image to be saved, click the  button.

Note

- Use the timeline or press the  /  button to explore detailed images.

- 3 Press the  button.

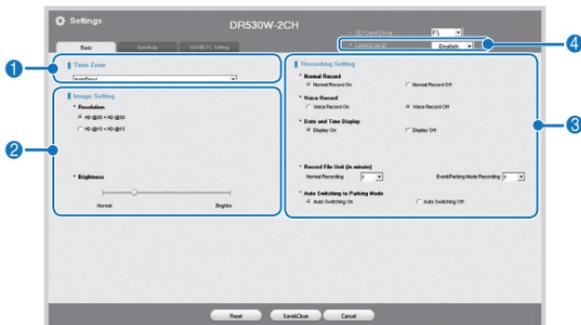
- 4 Select the printer and click the **OK** button.

Configuration

Basic Configuration

Time, video, and recording configurations can be changed.

- 1 Click the  button and click the **Basic** tab.
- 2 After changing the configuration, click **Save & Close**.



No.	Function	Description
1	Time Configuration	The time zone can be configured for where it is used. The configured time zone is used as information for recorded video.
2	Image Setting	The quality and brightness of the recorded front/rear video can be configured.

No.	Function	Description
3	Recording Configuration	Normal Record, Voice Record, Date and Time Display and Auto Switching to Parking Mode function can be turned on/off. Speed Display and Record File Unit can be changed.
4	Language Setting	The language of BlackVue voice directions can be changed.



Note

- With the **normal recording function disabled**, only event and parking mode recording videos are saved.
- With the **speed display unit disabled**, the vehicle speed is not displayed when the recorded videos are played back.
- On microSD cards, older files are deleted first to mark space for newly-recorded videos. Copy and store important files such as even recording files to other storage media.
- Tap the voice On/Off button to turn the voice recording function on or off.

How to Configure Time

If the model is not equipped with GPS, set the time manually for use. If you do not set the time, the time of the recorded video may not be saved correctly.

- 1 Format the microSD card and perform the firmware upgrade.
- 2 Access the BlackVue website (www.blackvue.com) and download the time setting program.
- 3 Run the time setting program before setting the time.



Note

- The time should be set to the time BlackVue turns on. Booting time for BlackVue is about 15 seconds after power is connected.

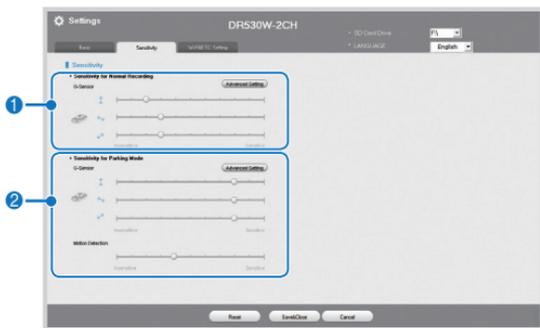
□ How to Configure Sensitivity

It is possible to configure the G-sensor sensitivity to start event recording during normal recording and the G-sensor & motion detection sensitivity to start event recording during parking mode recording, respectively.

- 1 Click the  button and click the **Sensitivity** tab.
- 2 After changing the configuration, click **Save & Close**.

Note

- For details about advanced sensitivity configuration, refer to **Advanced Sensitivity Configuration**. (37 page)

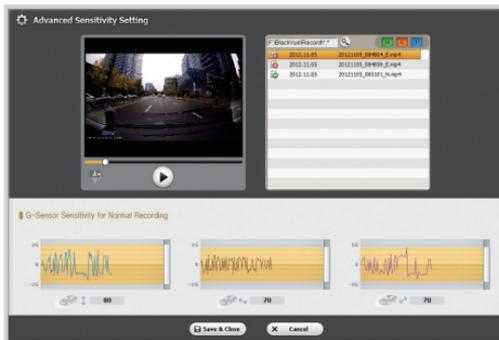


No.	Function	Description
①	Apply to Always-on Recording	It is possible to configure the G-sensor sensitivity to start event recording during always-on recording.
②	Apply to Parking Mode	It is possible to configure the G-sensor and motion detection sensitivity to start event recording during parking mode recording.

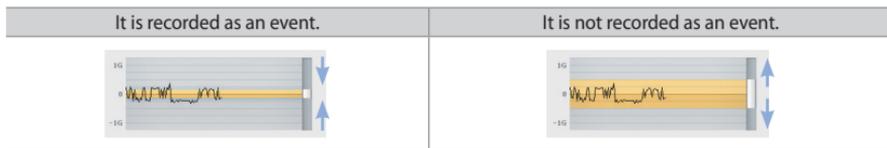
□ Advanced Sensitivity Configuration

The sensitivity can be configured while watching a recorded video.

- 1 Click the  button and click the **Sensitivity** tab.
- 2 Click the **Advanced Setting** button of the configuration you want.
- 3 Play back a recorded video. Saved G-sensor information is displayed at the bottom of the recorded video which is played back.



- 4 Move the control bar up/down to adjust the sensitivity range. If the range is wide, it is less sensitive, and if the range is narrow, it is more sensitive.



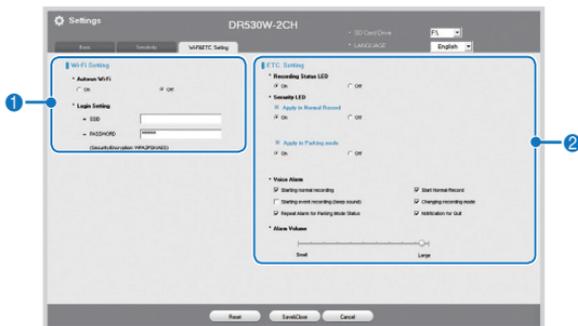
Note

- If an event recording is started due to the sensitivity configured while a recorded video is being played back, the edge of the playback screen blinks in orange.

- 5 After changing the configuration, click **Save & Close**.

Wi-Fi & Other Configuration

Configurations for Wi-Fi, LED indication, and voice direction can be changed.



No.	Function	Description
①	Wi-Fi Setting	You can change Autorun Wi-Fi feature, SSID and your password for the Wi-Fi connection. The BlackVue App can be accessed with the SSID and password chosen by the user and you can also reset the password if you have forgotten it.
②	Etc.	For video recording status, normal recording mode, and parking mode recording, the LED indicators can be turned on/off. Voice direction item or the volume can be changed.

How to Apply Configuration

The user's configuration can be applied to the product.

- 1 Insert the microSD card into the product. For details on how to insert the microSD card, refer to **How to Insert & Remove the microSD Card**. (15 page)
- 2 When the power is turned on, the user's configuration is automatically applied.



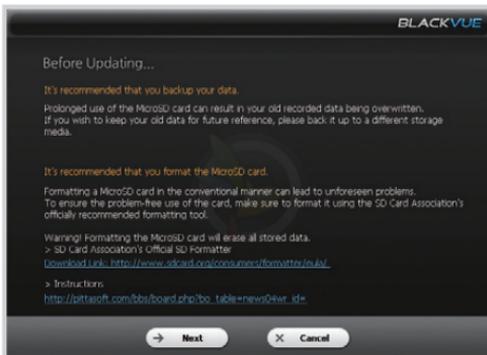
Note

- Insert the microSD card only when the product is turned off.

Firmware Upgrade

You can upgrade the firmware version by connecting the microSD card into the PC. You can also upgrade the firmware version with the BlackVue App, and for details, refer to the BlackVue App manual.

- 1 Connect the microSD card to the PC. For details on how to connect, refer to **How to Playback using a PC**. (21 page)
- 2 Access the BlackVue web site (www.blackvue.com) and download the firmware upgrade file.
- 3 Double-click the firmware upgrade file to execute it and perform the upgrade according to instructions provided in the program.



Note

- After firmware upgrade, all the user's configurations including the Wi-Fi setting are initiated.
- When the firmware upgrade is finished, the BlackVue viewer is automatically installed. If you don't want it to be installed, click the **Cancel** button.

4 After the firmware upgrade is finished, insert the microSD card into the BlackVue.



Note

- For details on how to insert the microSD card, refer to **How to Insert & Remove the microSD Card**. (15 page)
- Insert the microSD card only when the product is turned off.

5 When the power is turned on, it is automatically upgraded.



Caution

- Make sure that the power is never turned off while firmware upgrade is in progress

Product Specifications

Model Name	DR530W-2CH							
Color/Size/Weight	Front: Black / Length 118.5mm x Diameter 36mm / 114g Rear: Black / Length 67.4mm x Diameter 27.6mm / 30g							
Memory	microSD Card (16GB/ 32GB)							
Recording Mode	Normal Recording, Event Recording (Impact Detection), and Parking mode Recording (Motion+Impact Detection) ※ For Parking mode recording, a battery discharge prevention device is required.							
Camera	Front: CMOS Sensor (Approx. 2M Pixel) Rear: CMOS Sensor (Approx. 1M Pixel)							
Viewing Angle	Front: Opposite Angle 128°, Horizontal 99°, Vertical 58° Rear: Opposite Angle 129°, Horizontal 108°, Vertical 57°							
Resolution/Frame	<table border="1"> <thead> <tr> <th>Front</th> <th>Rear</th> </tr> </thead> <tbody> <tr> <td>HD(1280x720)@30Fps</td> <td>HD(1280x720)@30Fps</td> </tr> <tr> <td>HD(1280x720)@15Fps</td> <td>HD(1280x720)@15Fps</td> </tr> </tbody> </table>	Front	Rear	HD(1280x720)@30Fps	HD(1280x720)@30Fps	HD(1280x720)@15Fps	HD(1280x720)@15Fps	<p>※ Resolution/frame can be changed</p>
Front	Rear							
HD(1280x720)@30Fps	HD(1280x720)@30Fps							
HD(1280x720)@15Fps	HD(1280x720)@15Fps							
Video Compression Mode	MP4							
Wi-Fi	Built-in (802.11b/g/n(2.4~2.4835GHz), Max150Mbps, OFDM/CCK/16-QAM/64-QAM)							
Microphone	Built-in							
Speaker	Built-in ※ Voice Directions							
LED Indicators	Front: Recording LED, MIC LED, Wi-Fi LED, Front Security LED Rear: Rear Security LED							
Sensor	3-Axis Acceleration Sensor							

Button	Wi-Fi On/Off Button ※ Self-format Function: Press it for 10 seconds to format the microSD card
	Voice On/Off Button ※ The proximity sensor is built-in so that voice recording can be turned on/off by approaching it with a hand ※ Touch the button or it recognizes when a hand approaches to within about 2 cm
Backup Battery	Built-in super capacitor
Input Power	DC 12V-24V
Current Consumption	4.5W ※ Varies depending on Wi-Fi usage
Operation Temperature	-20°C ~ 60°C
Storage Temperature	-20°C ~ 70°C
Certificates	KC, FCC, CE, RoHS, Telec
Software	BlackVue Viewer ※ Windows XP or later (Up to Windows 8), Mac Leopard OS X(10.5) or later
Application	BlackVue App (Android 2.3 or later & iOS 5.0 or later & Windows 8.0 or later)

LED Indicators

State	LED	Recording State (REC)	MIC	Wi-Fi	Front Security	Rear Security
Boot-up		Blinking				White Light
Recording	Normal	Orange Blinking			White Blinking	
	Event	Red Blinking			Fast White Blinking	
	Parking	Green Blinking			White Blinking	
Wi-Fi ON				Lighting	White Blinking	
Wi-Fi ON/OFF Change				Blinking		
MIC ON			Blue Light		White Blinking	
Software Control		Available	Available	Unavailable	Available	Unavailable

microSD Card Standard

Resolution (Front+Rear)		HD + HD@30fps	HD + HD@15fps
Memory Capacity			
16GB		5 HR 20 MIN	7 HR
32GB		10 HR 30 MIN	14 HR
bit rate	Front	4Mbps	3Mbps
	Rear	2Mbps	1.5Mbps



Note

- There may be some variation with actual recording time depending on the user's environment.
- Depending on the image quality, the microSD card lifespan can be shortened.

Before Requesting A/S Service

- It is required for users to back up important data regularly from 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 needed to delete all the data from the product for A/S. So it is required for users to back up important data by themselves before requesting A/S. For all the A/S products, it is regarded that the user already backed up the data so there is no additional back-up process. Therefore, it is important to note that we are not responsible for any data lost during A/S.

FCC Compliance Information

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.

CAUTION : Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

Product Warranty

- The term of this product warranty is 2 year from the purchase date.

(Accessories such as Battery/microSD Card : 6 Months)

- We, PittaSoft Co., Ltd., provide the product warranty according to Consumer Dispute Settlement Regulations (drawn up by the Fair Trade Commission). PittaSoft or designated partners will provide the service upon request.

Product Name (Model Name)		Serial No.	
Purchased When		Purchased Where	
Customer Information		Address / Call Number	

Consumer Injury		Warranty		
		Within the Term	Out of the Term	
For performance/functional problems under normal use conditions	For serious repair required within 10 days of purchase	Exchange/Refund	N/A	
	For serious repair required within 1 month of purchase	Exchange		
	For serious repair required within 1 month of exchange	Exchange/Refund		
	When not exchangeable	Refund		
	Repair If Available	For Defect	Free Repair	Paid Repair/ Paid Product Exchange
		Repeated problem with the same defect (up to 3 times)		
		Repeated trouble with different parts (up to 5 times)		
	Repair If Unavailable	For the loss of a product while in A/S	Exchange/ Refund	Refund after depreciation plus an additional 10% Maximum purchase price)
		When repair is unavailable due to lack of spare parts within the component holding period		
		When repair is unavailable even with spare parts		Exchange/ Refund after depreciation
1) Malfunction due to customer fault <ul style="list-style-type: none"> - Malfunction & damage caused by user negligence (fall, shock, damage, unreasonable operation, etc) or careless use - Malfunction & damage occurred after a repair conducted by the consumer or the third person, not our A/S engineer. - Malfunction & damage due to used of unauthorized components, consumables, or separately sold parts 2) Other Cases <ul style="list-style-type: none"> - Malfunction due to natural disasters (fire, flood, earthquake, etc) - Expired life span of a consumable part - Malfunction due to external reasons 		Paid Repair	Paid Repair	

- This warranty is only valid in the country where you purchased the product.

MEMO



208-130064



MSIP-CMM-PTA-DR850GW-2CH
MSIP-REM-PTA-RC560
YCK-DR850GW-2CH

Name | Car Dashcam **Manufacturer** | Pittasoft Co., Ltd. / Korea

Address | (Gasan-dong, BYC HIGHCITY), A-7th floor, 131, Gasan digital 1-ro, Geumcheon-gu, Seoul,
153-718, Republic of Korea

Sales Headquater | Tel: +82-2-6947-4670(#3) | Fax: +82-2-6947-4699
| e-mail: sales@pittasoft.com

www.blackvue.com