BLACKVUE™

DR590W-2CH
Quick Start Guide

www.blackvue.com

BLACKVUE

DR590W-2CH

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.

- 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.

- 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 operate the product with wet hands.
  Doing so may cause electric shock.

- If any foreign matter gets inside the product, detach the power cord immediately.
  Contact the service center for repair.

- 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.

- If the product is used outside the optimal temperature range (-20℃ – 70℃/ -4℉ – 158℉), performance can decline or malfunctions may occur.

- 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.

- Do not remove the microSD card while the microSD card is saving or reading data.
  The data can be damaged or malfunctions may occur.

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 protections 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 ty 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.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacture could void the user's authority to operate such equipment.

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 of this device.

FCC ID: YCK-DR590W-2CH

CAUTION

Any changed or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

There is a risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

CE WARNING

- Changes and modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- It is desirable that it be installed and operated with at least 20cm or more between the radiator and a person's body (excluding extremities: hand, wrists, feet, and ankles).

Disposal of your BlackVue dashcam

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 dashcam will help prevent potential negative consequences for the environment and human health.

3. For more detailed information about disposal of your BlackVue dashcam, please contact your city office, waste disposal service or the shop where you purchased the product.

ICC Compliance

This Class [B] digital apparatus complies with Canadian ICES-003.

This radio transmitter has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

- IC Warning
This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicable aux appreils radio exempts de license.

L'exploitation est autoriséee aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, méme si le brouillage est susceptible d'encompromettre le fonctionnement.

IC: 23402-DR590W2CH

❯ **In the box**

Check the box for each of the following items before installing the BlackVue dashcam.
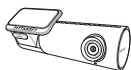
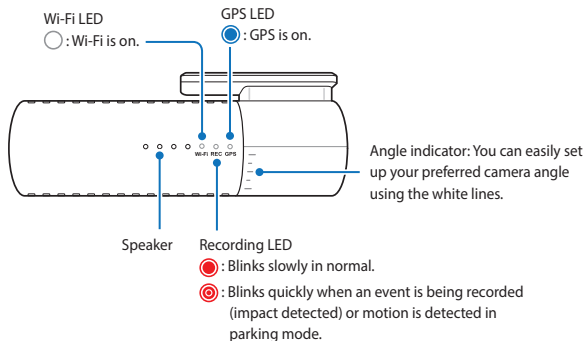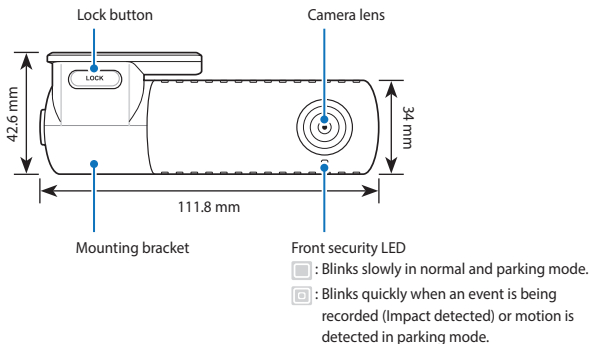|			
	Front camera		Rear camera
	Power cord		Rear camera connection cable
	microSD Card		microSD card adapter
	Quick start guide		Cable clips (5 EA)
	External GPS (Optional)		

Need help?

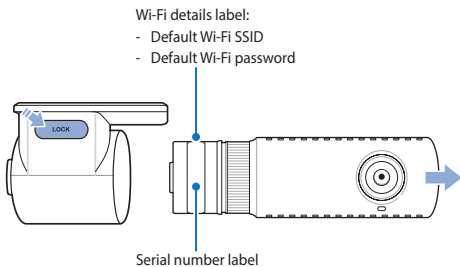Download the manual and the latest firmware from **www.blackvue.com**

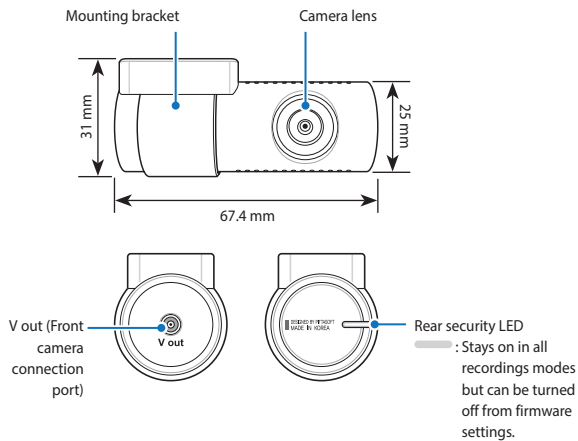Or contact a Customer Support expert at **cs@pittasoft.com**

› At a glance

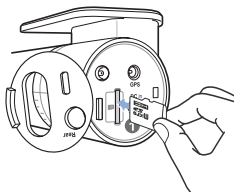The following diagrams explain each part of the BlackVue dashcam.

☐ Front camera

Lock button   Camera lens

42.6 mm

LOCK

34 mm

111.8 mm

Mounting bracket   Front security LED

    ▦ : Blinks slowly in normal and parking mode.

    ▣ : Blinks quickly when an event is being recorded (Impact detected) or motion is detected in parking mode.

Wi-Fi LED   GPS LED

◯ : Wi-Fi is on.   ◉ : GPS is on.

Wi-Fi REC GPS

Angle indicator: You can easily set up your preferred camera angle using the white lines.

Speaker   Recording LED

    🔴 : Blinks slowly in normal.

    ◎ : Blinks quickly when an event is being recorded (impact detected) or motion is detected in parking mode.

Wi-Fi details label:
- Default Wi-Fi SSID
- Default Wi-Fi password

LOCK

Serial number label

Rear (rear camera connection port)   GPS connection port

Cover

Wi-Fi / Format

GPS

Rear

DC in

DC in (Power connector)

microSD card slot

Wi-Fi / Format Button
- Press once to turn on/off Wi-Fi.
- Self-format function: To format the microSD card press
  the button for 10 seconds until the dashcam beeps.

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☐ Rear camera

Mounting bracket   Camera lens

31 mm   67.4 mm   25 mm

V out (Front camera connection port)

Rear security LED
: Stays on in all recordings modes but can be turned off from firmware settings.

STEP 1 ▸ Install and power up

Install the front camera behind the rear view mirror. Install the rear camera at the top of the back windshield. Remove any foreign matter and clean and dry the windshield before installation.
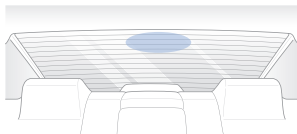
⚠ **Warning**

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

Ⓐ Turn off the engine. Open the cover of the microSD card slot, gently push the card into the slot until it locks into place and close the cover.
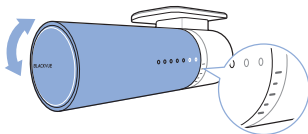
Ⓑ   Peel off the plastic film from the front camera and the rear camera. Peel off the protective film from the double-sided tape and attach the front camera to the windshield behind the rear-viewer mirror.


Ⓒ   **Optional GPS receiver:** Plug in the GPS receiver and attach it in a corner of the windshield. Tuck the cable into the windshield trim using the pry tool.
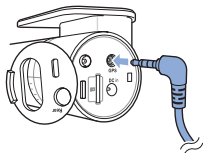

Ⓓ   Adjust the angle of the lens by rotating the body of the front camera. We recommend pointing the lens slightly downwards (≈10° below horizontal), so as to record video with a 6:4 road to background ratio.

E   Peel off the protective film from the double-sided tape and attach the rear camera to the rear windshield. Adjust the angle of the lens by rotating the body of the rear camera.
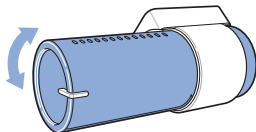
F   Connect the front camera ('Rear' port) and the rear camera using the rear camera connection cable.
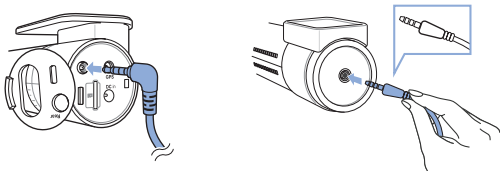
G   Use the pry tool to lift the edges of the rubber window sealing and molding and tuck in the rear camera connection cable.

Rear camera connection cable
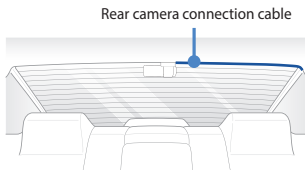
H   Plug the power cord into the cigarette lighter socket and the front camera.

(I) Use the pry tool to lift the edges of the windshield trim/molding and tuck in the power cord.

Rear camera connection cable   Power cord
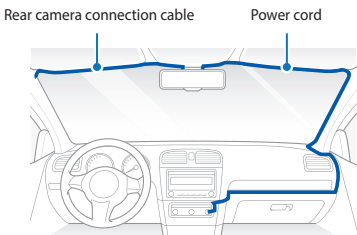
(J) Turn on the engine. The BlackVue dashcam will power up and start recording. Video files are stored on the microSD card. When the microSD card fills up, the newest video files will start to replace the oldest video files (called **loop recording**) – so you will always have the most recent video files.
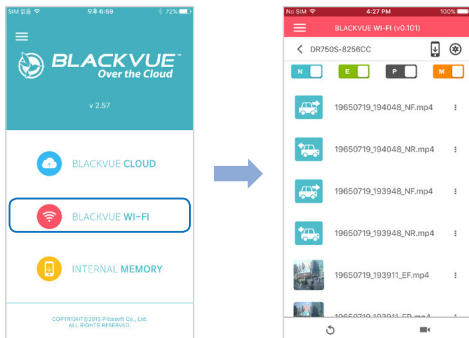
📝 **Note**
- There are 3 recording modes: Normal, Event and Parking. The dashcam starts recording in normal mode, switches to event mode when an impact is detected, and switches to parking mode if the vehicle is stationary for 5 minutes.
- When you run the dashcam for the first time the firmware is automatically loaded onto the microSD card. After the firmware has been loaded onto the microSD card you can customize settings using BlackVue Viewer on a computer.

☐ **Playing video files on your smartphone (Android/iOS)**

Ⓐ Search for the BlackVue app in the Google Play Store or Apple App Store and install it on your smartphone.

Ⓑ "Pair" your smartphone with the BlackVue dashcam via direct Wi-Fi:

    (i) Unplug the power cable and remove the front dashcam from its mount. With the Wi-Fi details label visible, plug in the power cable and wait for the dashcam to start normal recording. Press the Wi-Fi button once to turn on Wi-Fi.

    (ii) Go to your smartphone's **Settings** then select **Wi-Fi**, and make sure Wi-Fi is turned on.
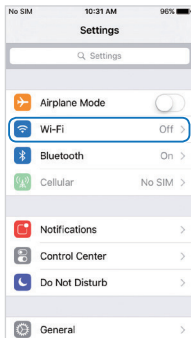
(iii) Choose your BlackVue dashcam from the network list. The dashcam's default SSID begins with its model number (e.g. BlackVue590W-******).

(iv) Enter the password and tap join.

 * The default Wi-Fi SSID and password are printed on the dashcam's Wi-Fi details label.

(v) Open the BlackVue app and select BLACKVUE WI-FI.

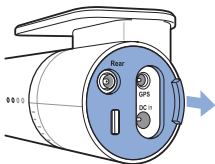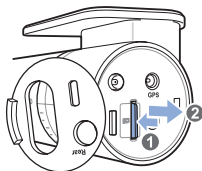ⓒ Select the video file you want to play from the video list.

📝 **Note**

 • All images shown are for illustration purposes only. Actual app may differ from images shown.

☐ **Playing video files on your computer (Windows/Mac)**

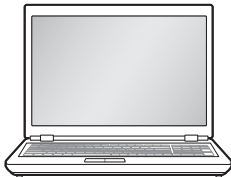Ⓐ   Remove the microSD card from the dashcam.

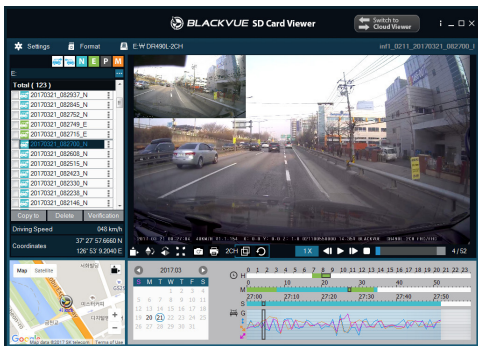Open side cover   To remove

Ⓑ   Use the included microSD card adapter to connect the card to a
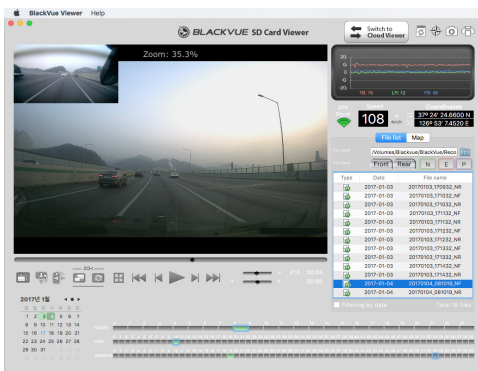   computer.

Ⓒ   Download BlackVue Viewer from **www.blackvue.com** > **Support** >
      Downloads and install it on your computer.

(D) Run BlackVue Viewer.

Windows Viewer

Mac Viewer

* All images shown are for illustration purposes only. Actual program may differ from images shown.

STEP 3 **Changing dashcam's time zone and other settings.**

The dashcam's time zone is initially set to (GMT-11). To display the correct time please select your time zone.

☐ **Using your smartphone (Android/iOS)**

Ⓐ "Pair" your smartphone with the BlackVue dashcam via direct Wi-Fi (for details see STEP 2 'Playing video files on your smartphone')

Ⓑ Open the BlackVue app and select BLACKVUE WI-FI.

Ⓒ Tap the ⚙ button to access the Firmware settings menu.
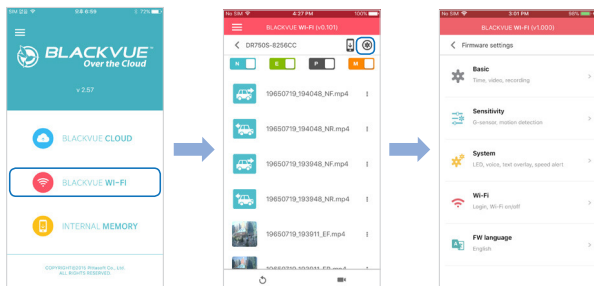
Ⓓ (i) Select **Basic settings > Time**.

(ii) If you run the dashcam with the GPS receiver connected, select your time zone to auto-sync with GPS time. If you do not connect the GPS receiver you can set the time and date manually after enabling **Manual time setting**.

Ⓔ Go back to the Firmware settings menu and configure other desired settings.

Settings that can be changed include video resolution, image quality, video segment length, sensitivity settings, voice recording on/off, speed unit (km/h, MPH, off), LEDs on/off, voice guidance volume, Wi-Fi settings etc.

Once settings are configured, tap ❮ and tap Save and close.
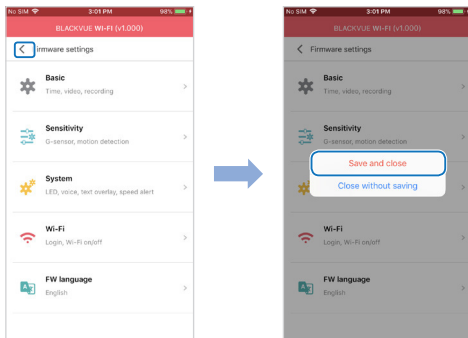
☐ **Changing the dashcam's time zone and other firmware settings on your computer (Windows/Mac)**

(A) Download BlackVue Viewer from **www.blackvue.com > Support > Downloads** and install it on your computer. Run BlackVue Viewer program after connecting dashcam's microSD card to your computer. Click on the ✱ Settings button (Windows) or the BlackVue Viewer menu (mac OS) to open the BlackVue settings panel.

(B) Time zone setting

If you do not connect the GPS receiver:
To manually set the time select **Manual time setting** and set your date and time.
If you connect the GPS receiver:
If you run the dashcam with the GPS receiver connected, it is possible to sync with GPS time. To sync with GPS time, select your GMT time zone. The factory setting is GMT -11.
If you are unsure of your GMT offset please look up your city on **https://greenwichmeantime.com/**

(C) Other settings

The settings that can be adjusted include:

• Basic: Time, Video(Resolution, Image quality, Night vision, Brightness), Recording(Normal recording, Automatic parking mode, Voice recording, Date & time display, Speed unit, Video segment length, Rear camera rotation)

• Sensitivity: G-sensor (Normal mode, Paring mode), Motion detection (Parking mode)

• System: LED, Voice guidance, Volume, Scheduled reboot, Speed alert, User text overlay

• Wi-Fi: SSID and Password change

❯ **Tips for optimal performance**

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

Formatting the card in the BlackVue:
Press the Wi-Fi/Format button for 10 seconds until the dashcam beeps.

Format using BlackVue Viewer (Windows):
Insert the microSD card into the microSD card adapter and connect it to your computer. Download BlackVue Viewer from **www.blackvue.com > Support > Downloads** and install it on your computer. Launch BlackVue Viewer, click the [Format] Format button, select the card drive and click OK.

Format using BlackVue Viewer (macOS):
Insert the microSD card into the microSD card adapter and connect it to your computer. Download BlackVue Viewer from **www.blackvue.com > Support > Downloads** and install it on your computer. Launch BlackVue Viewer, click the [ ] Format button and select the microSD card from the list of drives in the left frame. After selecting your microSD card select the Erase tab in the main window. Select "MS-DOS (FAT)" from the Volume Format drop-down menu and click Erase.

Ⓑ Only use official BlackVue microSD cards. Other cards may have compatibility issues.

Ⓒ Regularly upgrade the firmware for performance improvements and updated features. Firmware updates will be made available for download at **www.blackvue.com** > **Support** > **Downloads**.

Customer Support

For customer support, manuals, software and firmware updates please visit **www.blackvue.com**

You can also email a Customer Support expert at **cs@pittasoft.com**

Model Name	DR590W-2CH
Color/Size/Weight	Front: Black / Width 111.8 mm x Height 34 mm / 64 g Rear: Black / Width 67.4 mm x Height 25 mm / 21 g
Memory	microSD Card (16 GB/32 GB/64 GB/128 GB)
Recording Modes	Normal Recording, Event Recording (when impact is detected in normal and parking mode) and Parking recording (when motion is detected) * For parking mode recording, a Parking Mode Battery Pack (Power Magic Battery Pack) or a Parking Mode Hardwiring Kit (Power Magic Pro) is required.
Camera	Front: STARVIS™ CMOS Sensor (Approx. 2.1 megapixels) Rear: CMOS Sensor (Approx. 2 megapixels)
Viewing Angle	Front: Diagonal 139°, Horizontal 116°, Vertical 61° Rear: Diagonal 140°, Horizontal 115°, Vertical 60°
Resolution/Frame Rate	<Front - Rear> Full HD (1920x1080) @ 30 fps - Full HD (1920x1080) @ 30 fps Full HD (1920x1080) @ 30 fps - HD (1280x720) @ 30 fps HD (1280x720) @ 30 fps - HD (1280x720) @ 30 fps
Image Quality	Highest/High/Normal
Video Compression Mode	MP4
Wi-Fi	Built-in (802.11n (2.4 – 2.4835 GHz))
GPS	External (Optional)

* STARVIS is a trademark of Sony Corporation.

Microphone	Built-in
Speaker (Voice Guidance)	Built-in
LED Indicators	Front: Front Security, REC, GPS, Wi-Fi Rear: Rear Security LED
Button	Short press: Wi-Fi on/off Press and hold: Format microSD card
Sensor	3-Axis Acceleration Sensor
Backup Battery	Built-in super capacitor
Input Power	DC 12V – 24V (DC Plug: ⊖⊚⊕ (Ø3.5 x Ø1.35), MAX 1A/12V)
Power Consumption	Avg. 300mA (3.60W at 12V, when Wi-Fi is off and no external GPS receiver is connected) Avg. 320mA (3.84W at 12V, when Wi-Fi is on and an external GPS receiver is connected) * Actual power consumption may vary depending on use conditions and environment.
Operation Temperature	-20 ℃ – 70 ℃ (-4 °F – 158 °F)
Storage Temperature	-20 ℃ – 80 ℃ (-4 °F – 176 °F)
High Temp. Cut-Off	Approx. 80 ℃ (176 °F)
Certifications	FCC, CE, RoHS, Telec, WEEE, IC
Software	BlackVue Viewer * Windows XP or higher and Mac Yosemite OS X (10.10) or higher
Application	BlackVue Application (Android 4.4.2 or higher, iOS 8.0 or higher)
Other Features	Adaptive Format Free File Management System

Notes

Notes

Product Warranty

■ **The term of this product warranty is 1 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.

Consumer Injury			Warranty	
			Within the Term	Outside 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)	Exchange/ Refund	
		Repeated trouble with different parts (up to 5 times)		
	Repair (If Unavailable)	For the loss of a product while being serviced/repaired		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 are available		Exchange/ Refund after depreciation
1) Malfunction due to customer fault - Malfunction & damage caused by user negligence (fall, shock, damage, unreasonable operation, etc) or careless use - Malfunction & damage after being serviced/repaired by an unauthorized third party, and not through Pittasoft's Authorized Service Center. - Malfunction & damage due to the use of unauthorized components, consumables, or separately sold parts 2) Other Cases - 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.

Product	Car Dashcam
Model Name	DR590W-2CH
Manufacturer	Pittasoft Co., Ltd.
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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Made in Korea