



DR590W-2CH

Quick Start Guide



ENGLISH / ESPAÑOL / 中文

www.blackvue.com

BLACKVUE

DR590W-2CH

For manuals, customer support and FAQs go to www.blackvue.com

Para consultar los manuales, las preguntas frecuentes o solicitar ayuda, vaya a www.blackvue.com

如需获得说明书、客户支持和常见问题解答，请访问
www.blackvue.com/cn

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°C – 70°C / -4°F – 158°F), 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.

FCC Compliance Information

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 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.
- 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 appareils radio exempts de licence.

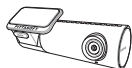
L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'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?

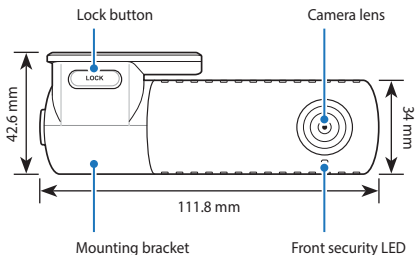
Download the manual and the latest firmware from www.blackvue.com

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

➤ At a glance

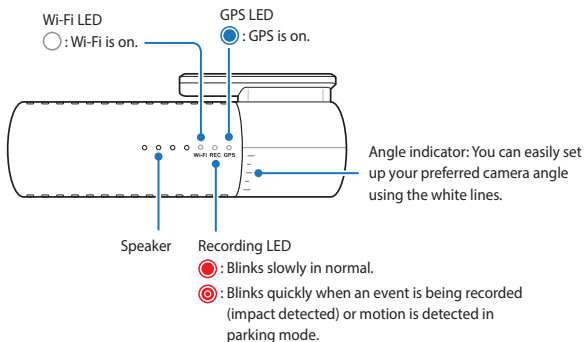
The following diagrams explain each part of the BlackVue dashcam.

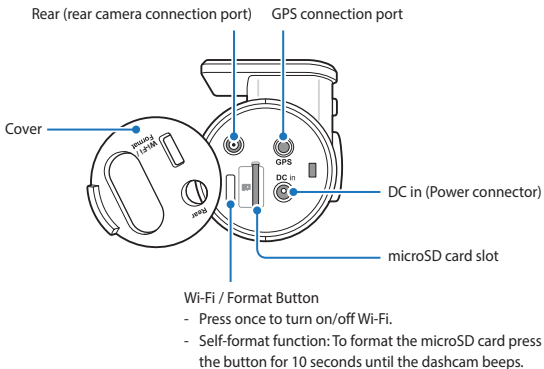
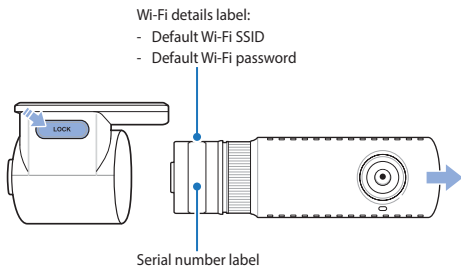
□ Front camera



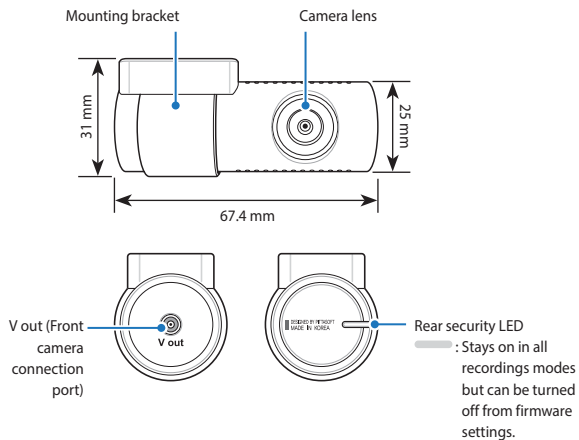
Front security LED

- ◻ : Blinks slowly in normal and parking mode.
- ◻ : Blinks quickly when an event is being recorded (Impact detected) or motion is detected in parking mode.



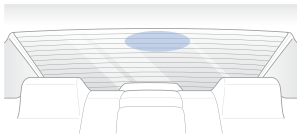


□ Rear camera



STEP 1 Install and power up

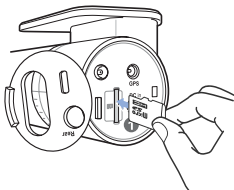
Install the front camera behind the rear view mirror. Install the rear camera at the top of the back windshield. Remove any foreign matter and clean and dry the windshield before installation.



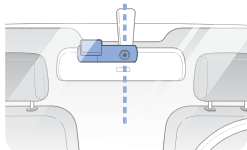
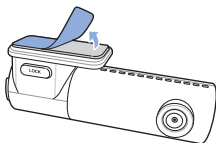
Warning

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

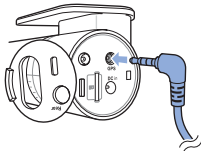
- (A)** Turn off the engine. Open the cover of the microSD card slot, gently push the card into the slot until it locks into place and close the cover.



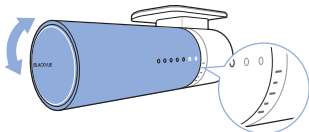
- B** Peel off the plastic film from the front camera and the rear camera. Peel off the protective film from the double-sided tape and attach the front camera to the windshield behind the rear-view mirror.



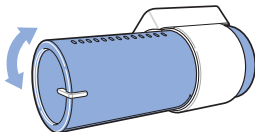
- C** **Optional GPS receiver:** Plug in the GPS receiver and attach it in a corner of the windshield. Tuck the cable into the windshield trim using the pry tool.



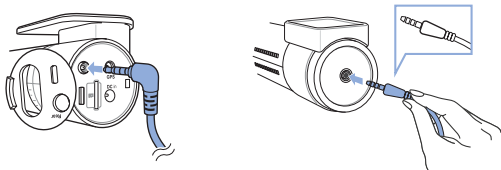
- D** Adjust the angle of the lens by rotating the body of the front camera. We recommend pointing the lens slightly downwards ($\approx 10^\circ$ below horizontal), so as to record video with a 6:4 road to background ratio.



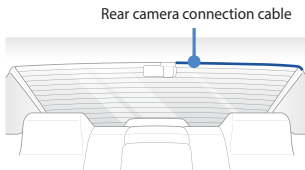
- (E)** Peel off the protective film from the double-sided tape and attach the rear camera to the rear windshield. Adjust the angle of the lens by rotating the body of the rear camera.



- (F)** Connect the front camera ('Rear' port) and the rear camera using the rear camera connection cable.

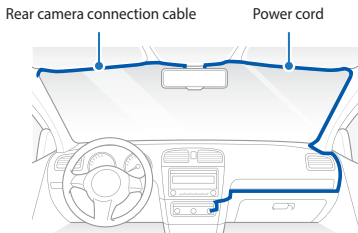


- (G)** Use the pry tool to lift the edges of the rubber window sealing and molding and tuck in the rear camera connection cable.



- (H)** Plug the power cord into the cigarette lighter socket and the front camera.

- ① Use the pry tool to lift the edges of the windshield trim/molding and tuck in the power cord.



- ② 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.



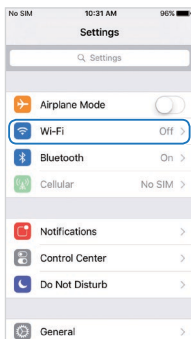
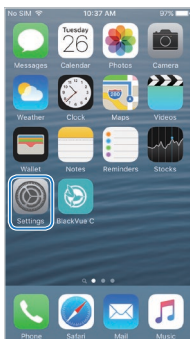
Note

- 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.

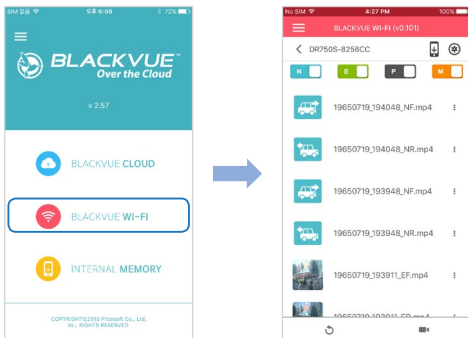
STEP 2 Playback

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

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



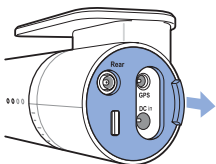
- ③ Select the video file you want to play from the video list.

Note

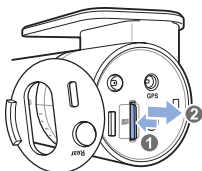
- All images shown are for illustration purposes only. Actual app may differ from images shown.

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

- Ⓐ Remove the microSD card from the dashcam.



Open side cover



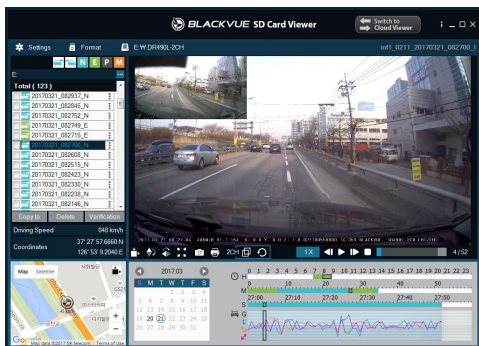
To remove

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

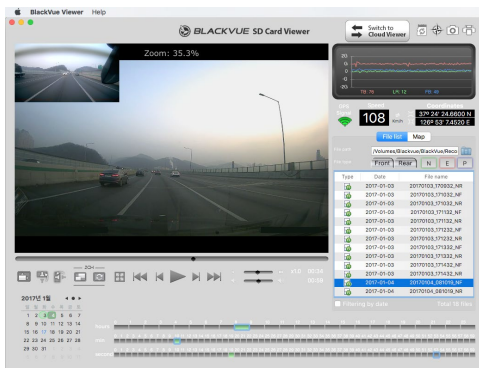


- Ⓒ Download BlackVue Viewer from www.blackvue.com > **Support** > **Downloads** and install it on your computer.

D Run BlackVue Viewer.



Windows Viewer



Mac Viewer

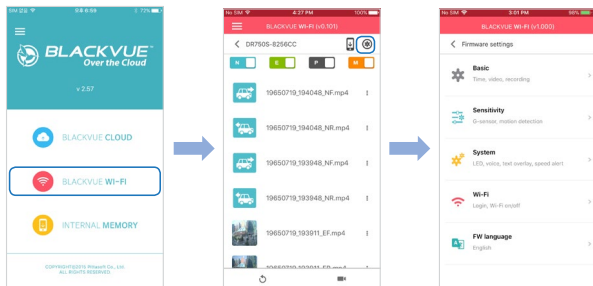
* All images shown are for illustration purposes only. Actual program may differ from images shown.

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)

- (A) "Pair" your smartphone with the BlackVue dashcam via direct Wi-Fi (for details see STEP 2 'Playing video files on your smartphone')
- (B) Open the BlackVue app and select BLACKVUE WI-FI.
- (C) Tap the  button to access the Firmware settings menu.

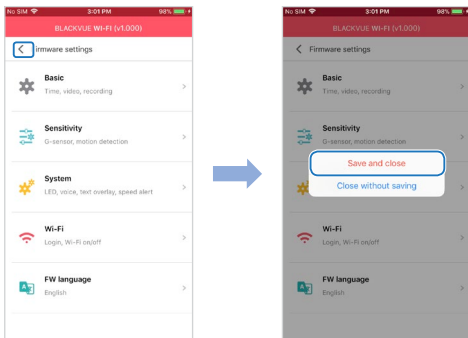


- (D) (i) Select **Basic settings > Time**.
- (ii) If you run the dashcam with the GPS receiver connected, select your time zone to auto-sync with GPS time. If you do not connect the GPS receiver you can set the time and date manually after enabling **Manual time setting**.

- E** 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, Parking 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

- A** 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** 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.

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

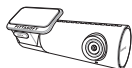
You can also email a Customer Support expert at cs@pittasoft.com

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. 350mA (4.20W 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 °C – 70 °C (-4 °F – 158 °F)
Storage Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
High Temp. Cut-Off	Approx. 70 °C (158 °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

Compruebe que los siguientes objetos están incluidos en la caja antes de instalar la cámara para salpicadero BlackVue.



Cámara frontal



Cámara trasera



Cable de alimentación



Cable de conexión de la cámara trasera



Tarjeta microSD



Adaptador de tarjeta microSD



Guía de inicio rápido



Pinzas de cable (5 EA)



GPS externo (opcional)

¿Necesita ayuda?

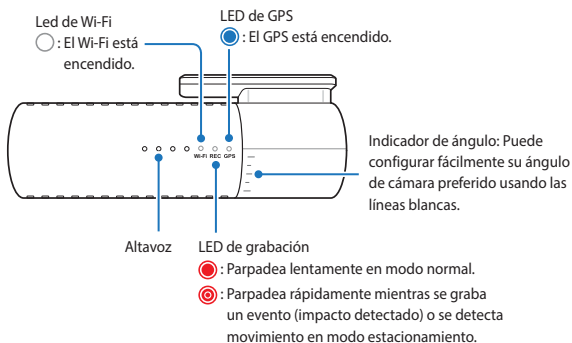
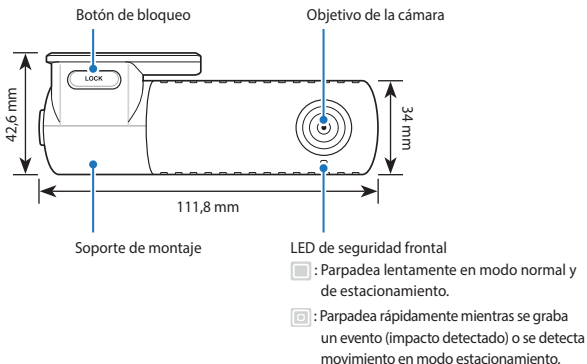
Descargue el manual y el último firmware de www.blackvue.com

O póngase en contacto con nuestro experto de Atención al Cliente en cs@pittasoft.com

De un vistazo

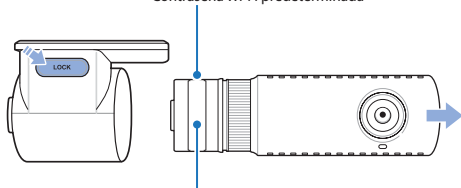
Los siguientes diagramas explican cada pieza de la cámara para salpicadero BlackVue.

□ Cámara frontal



Etiqueta de información del Wi-Fi:

- SSID del Wi-Fi predeterminada
- Contraseña Wi-Fi predeterminada

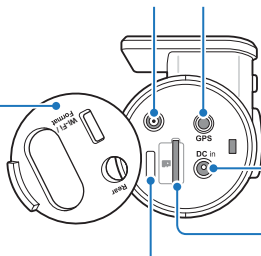


Etiqueta del número de serie

Trasera (puerto de conexión
de la cámara trasera)

Puerto de conexión del GPS

Cubierta



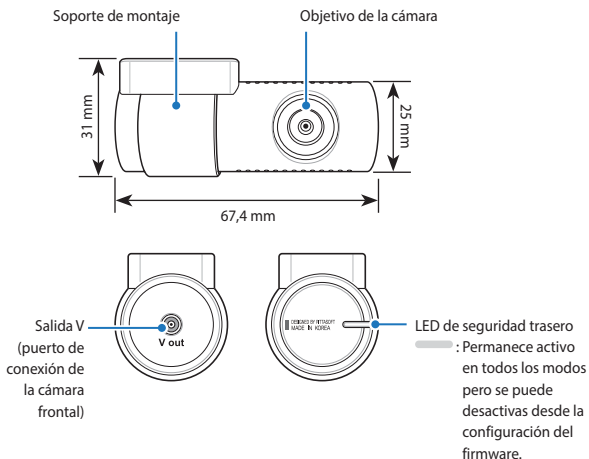
Entrada de corriente
(toma eléctrica)

Ranura de tarjeta microSD

Botón de Wi-Fi/formateo

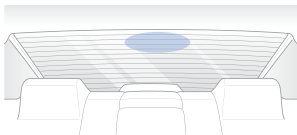
- Púlselo una vez para activar/desactivar el Wi-Fi.
- Función de autoformato: Para formatear la tarjeta microSD, mantenga pulsado el botón durante 10 segundos hasta que la cámara para salpicadero emita un pitido.

□ Cámara trasera



PASO 1 Instalación y encendido

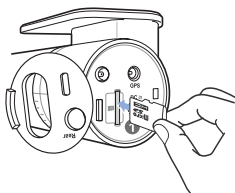
Instale la cámara frontal detrás del espejo retrovisor. Instale la cámara trasera en la parte superior del parabrisas trasero. Retire cualquier sustancia extraña y limpie y seque el parabrisas antes de la instalación.



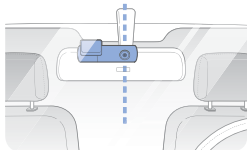
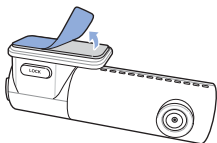
! Advertencia

- No instale el producto en un lugar donde pueda obstruir el campo de visión del conductor.

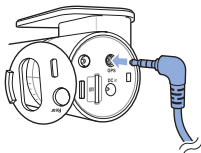
- A** Apague el motor. Abra la tapa de la ranura de la tarjeta micro-SD, presione suavemente la tarjeta dentro de la ranura hasta que encaje en su sitio y cierre la tapa.



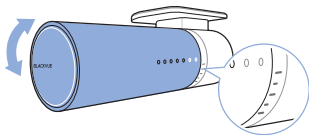
- (B)** Retire la película de plástico de la cámara frontal y la cámara trasera. Retire la película protectora de la cinta de doble cara y enganche la cámara frontal en el parabrisas, detrás del retrovisor.



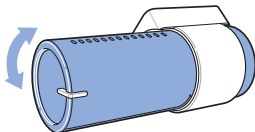
- Receptor de GPS opcional:** Conecte el receptor de GPS y móntelo en la esquina del parabrisas. Meta el cable bajo el embellecedor del parabrisas usando la palanca.



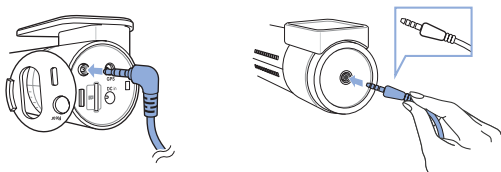
- D** Gire el cuerpo de la cámara frontal para ajustar el ángulo del objetivo. Se recomienda apuntar el objetivo ligeramente hacia abajo (aprox. 10° por debajo de la horizontal) para grabar vídeo con una proporción de fondo de carretera de 6:4.



- E** Retire la película protectora de la cinta de doble cara y enganche la cámara trasera en el parabrisas trasero. Gire el cuerpo de la cámara trasera para ajustar el ángulo del objetivo.

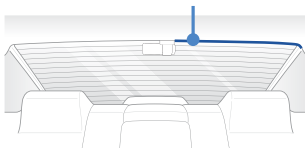


- F** Conecte la cámara frontal (puerto 'Trasero') y la cámara trasera con el cable de conexión de la cámara trasera.



- G** Utilice una palanca para levantar el borde del embellecedor de goma del parabrisas e introduzca el cable de conexión de la cámara trasera.

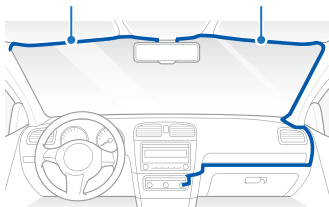
Cable de conexión de la cámara trasera



- H** Conecte el cable de alimentación al mechero del coche y a la cámara frontal.

- ① Utilice una palanca para levantar el borde del embellecedor del parabrisas e introduzca el cable de alimentación.

Cable de conexión de la cámara trasera Cable de alimentación



- ② Encienda el motor. La cámara para salpicadero BlackVue se encenderá y empezará a grabar. Los archivos de vídeo se guardan en la tarjeta microSD. Cuando la tarjeta microSD se llene, los archivos de vídeo más nuevos empezarán a reemplazar a los archivos de vídeo más viejos (conocido como **grabación en bucle**), de forma que siempre tendrá los archivos de vídeo más recientes.



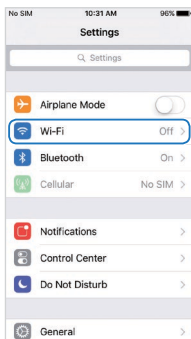
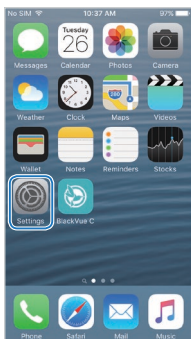
Nota

- Hay 3 modos de grabación: Normal, Evento y Estacionamiento. La cámara para salpicadero empieza a grabar en modo normal, cambia a modo evento cuando se detecta un impacto, y cambia a modo estacionamiento si el vehículo está detenido durante 5 minutos.
- Al utilizar la cámara para salpicadero por primera vez, el firmware se cargará automáticamente en la tarjeta microSD. Cuando el firmware se haya cargado a la tarjeta microSD, podrá personalizar los ajustes usando BlackVue Viewer en un ordenador.

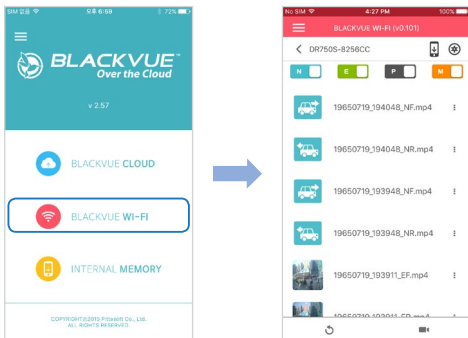
PASO 2 Reproducción

❑ Reproducir archivos de vídeo en su **smartphone** (Android/iOS)

- A** Busque la aplicación BlackVue en la Play Store de Google o la App Store de Apple e instálela en su smartphone.
- B** “Vincule” su smartphone con la cámara para salpicadero BlackVue a través de Wi-Fi directo:
- (i) Desenchufe el cable de alimentación y retire la cámara para salpicadero frontal de su montura. Enchufe el cable de alimentación con la etiqueta de información del Wi-Fi visible y espere a que la cámara para salpicadero empiece la grabación normal. Pulse el botón Wi-Fi una vez para activarlo.
 - (ii) Vaya a los **Ajustes** de su smartphone y, a continuación, seleccione **Wi-Fi** y asegúrese de que el Wi-Fi esté activado.



- (iii) Elija la cámara para salpicadero BlackVue en la lista de redes. La SSID predeterminada de la cámara para salpicadero empieza con el número de modelo (p. Ej. BlackVue590W-*****).
- (iv) Introduzca la contraseña y toque Conectarse.
 - * El SSID y la contraseña predeterminados del Wi-Fi están impresos en la etiqueta de información del Wi-Fi de la cámara para salpicadero.
- (v) Abra la aplicación BlackVue y seleccione BLACKVUE WI-FI.



- (c) Seleccione el video que desea reproducir en la lista de vídeos.

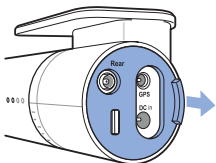


Nota

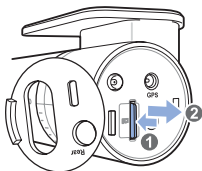
- Todas las imágenes mostradas tienen un fin únicamente ilustrativo. La aplicación real podría diferir de las imágenes mostradas.

☐ Reproducir archivos de vídeo en su **ordenador** (Windows/Mac)

- (A)** Retire la tarjeta microSD de la cámara para salpicadero.

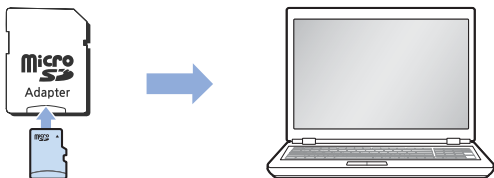


Abra la tapa lateral



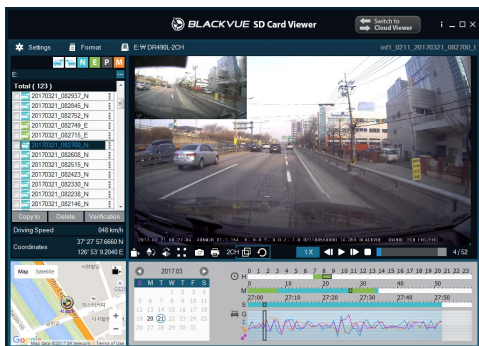
Para retirar

- (B)** Utilice el adaptador de tarjetas microSD incluido para conectar la tarjeta a un ordenador.

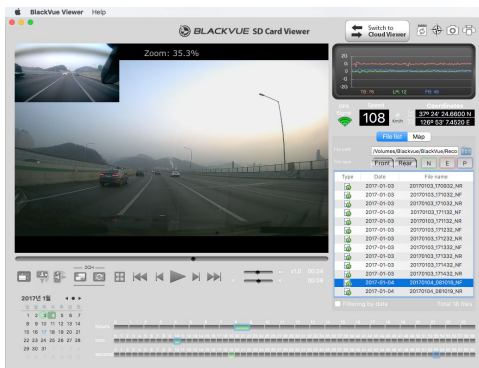


- (C)** Descargue el programa BlackVue Viewer desde www.blackvue.com > **Support > Downloads** e instálelo en su PC.

D Ejecute el programa BlackVue Viewer.



Viewer en Windows



Mac Viewer

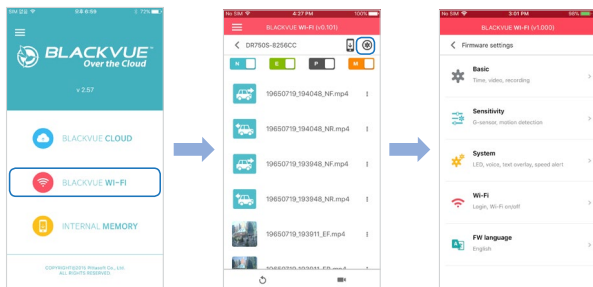
* Todas las imágenes mostradas tienen un fin únicamente ilustrativo. El programa real podría diferir de las imágenes mostradas.

PASO 3 Cambiar la zona horaria y otros ajustes de la cámara para salpicadero.

La zona horaria de la cámara de salpicadero está configurada inicialmente como (GMT-11). Seleccione su zona horaria para ver la hora correcta.

☐ Utilizar el smartphone (Android/iOS)

- A** "Vincule" su smartphone con la cámara para salpicadero BlackVue a través de Wi-Fi directo (para más información, consulte el PASO 2 'Reproducir archivos de vídeo en su smartphone').
- B** Abra la aplicación BlackVue y seleccione BLACKVUE WI-FI.
- C** Toque el botón  para acceder al menú de Configuración del firmware.

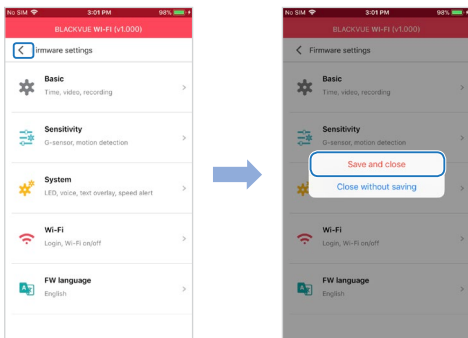


- D**
 - (i) Seleccione **Configuración básica > Hora**.
 - (ii) Si utiliza la cámara para salpicadero con el receptor GPS conectado, seleccione su zona horaria para sincronizarla automáticamente con la hora del GPS. Si no conecta el receptor GPS puede ajustar manualmente la hora y la fecha después de activar **Ajuste manual de hora**.

- E** Regrese al menú de configuración del Firmware y configure el resto de parámetros.

Algunos de los ajustes que se pueden cambiar son la resolución del vídeo, la calidad de imagen, la duración del segmento, los ajustes de sensibilidad, activar o desactivar la grabación por voz, la unidad de velocidad (km/h, MPH, apagado), encender o apagar los LED, el volumen de la guía por voz, los ajustes de Wi-Fi, etc.

Una vez configurados los parámetros, toque sobre , después sobre Guardar y cerrar.



❑ Cambiar la zona horaria de la cámara de salpicadero y otros parámetros del firmware en su PC (Windows/Mac)

- (A) Descargue el programa BlackVue Viewer desde www.blackvue.com > **Support > Downloads** e instálelo en su PC. Ejecute el programa Blackvue Viewer después de conectar la tarjeta micro-SD en su PC. Haga clic sobre el botón  Settings (Windows) o en el menú  **BlackVue Viewer** (mac OS) para abrir el panel de configuración BlackVue.

- (B) Ajuste de la zona horaria

Si no conecta el receptor GPS:

Seleccione **Ajuste manual de la hora** para ajustar manualmente la hora y establezca la fecha y hora.

Si conecta el receptor GPS:

Si utiliza la cámara para salpicadero con el receptor GPS conectado, es posible sincronizar la hora con el GPS. Para sincronizar la con la hora del GPS; seleccione su zona horaria. La configuración de fábrica es GMT -11.

Si desconoce la diferencia horaria con la hora GMT, busque su ciudad en <https://greenwichmeantime.com/>

- (C) Otros ajustes

Algunos de los ajustes que se puede:

- Básico: Tiempo, Vídeo (Resolución, Calidad de imagen, Visión nocturna, Brillo), Grabación (Grabación normal, Modo de estacionamiento automático, Grabación de voz, Mostrar fecha y hora, Unidad de velocidad, Longitud del segmento de vídeo, Rotación de la cámara trasera)
- Sensibilidad: Sensor G (modo Normal, modo de estacionamiento), detección de movimiento (modo de estacionamiento)
- Sistema: LED, Guía por voz, Volumen, Reinicio programado, Alerta de velocidad, Superponer texto de usuario
- Wi-Fi: Cambio de SSID y contraseña

➤ Consejos para un funcionamiento óptimo

- A** Formatee la tarjeta microSD una vez al mes o cuando la cámara para salpicadero BlackVue le indique que la tarjeta necesita mantenimiento.

Formatear la tarjeta en BlackVue:

Pulse el botón Wi-Fi/Formatear durante 10 segundos hasta que la cámara para salpicadero pite.

Formatear usando BlackVue Viewer (Windows):

Inserte la tarjeta microSD en el adaptador de tarjetas microSD y conéctelo al ordenador. Descargue el programa BlackVue Viewer desde www.blackvue.com > **Support > Downloads** e instálelo en su PC. Ejecute BlackVue Viewer, haga clic en el botón  **Format** Formatear, seleccione la unidad de la tarjeta y haga clic en Aceptar.

Formatear usando BlackVue Viewer (macOS):

Inserte la tarjeta microSD en el adaptador de tarjetas microSD y conéctelo al ordenador. Descargue el programa BlackVue Viewer desde www.blackvue.com > **Support > Downloads** e instálelo en su PC. Ejecute BlackVue Viewer, haga clic en el botón  Formatear y seleccione la tarjeta microSD en la lista de unidades del marco izquierdo. Después de seleccionar la tarjeta microSD, seleccione la pestaña Eliminar de la ventana principal. Seleccione "MS-DOS (FAT)" en el menú desplegable de Formato de volumen y haga clic en Eliminar.

- B** Utilice sólo tarjetas microSD oficiales de BlackVue. Otras tarjetas podrían tener problemas de compatibilidad.
- C** Actualice periódicamente el firmware para mejorar el funcionamiento y disfrutar de funciones actualizadas. Podrá descargar las actualizaciones de firmware en www.blackvue.com > **Support > Downloads**.

Soporte al cliente

Para obtener soporte al cliente, manuales, software y actualizaciones de firmware, visite www.blackvue.com

También puede enviar un correo electrónico a un experto de Soporte al cliente en cs@pittasoft.com

Especificaciones del producto

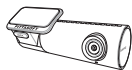
Nombre del modelo	DR590W-2CH
Color/Tamaño/Peso	Frontal: Negro/Ancho 111,8 mm x Altura 34 mm/64 g Trasera: Negro/Ancho 67,4 mm x Altura 25 mm/21 g
Memoria	Tarjeta microSD (16 GB/32 GB/64 GB/128 GB)
Modos de grabación	Grabación normal, grabación de evento (cuando se detecta un impacto en modo normal o de estacionamiento) y grabación de estacionamiento (cuando se detecta movimiento) * Para grabación en modo estacionamiento, se necesita un paquete de batería para modo estacionamiento (Power Magic Battery Pack) o un equipo de cableado para modo estacionamiento (Power Magic Pro).
Cámara	Frontal: Sensor STARVIS™ CMOS (aprox. 2,1 megapíxeles) Trasera: Sensor CMOS (aprox. 2 megapíxeles)
Ángulo de visión	Frontal: Diagonal 139°, horizontal 116°, vertical 61° Trasera: Diagonal 140°, horizontal 115°, vertical 60°
Resolución/ Velocidad de fotogramas	<Frontal - Trasera> Full HD (1920 x 1080) a 30 fps - Full HD (1920 x 1080) a 30 fps Full HD (1920 x 1080) a 30 fps - HD (1280 x 720) a 30 fps HD (1280 x 720) a 30 fps - HD (1280 x 720) a 30 fps
Calidad de imagen	Más alta/Alta/Normal
Modo de compresión de vídeo	MP4
Wi-Fi	Integrado (802.11n (2.4 – 2.4835 GHz))
GPS	Externo (opcional)
Micrófono	Integrado

* STARVIS es una marca comercial de Sony Corporation.

Altavoz (guía por voz)	Integrado
Indicadores LED	Frontal: Seguridad frontal, REC, GPS, Wi-Fi Trasera: LED de seguridad trasero
Botón	Pulsación breve: Wi-Fi encendido/apagado Mantener pulsado: Formatear la tarjeta microSD
Sensor	Sensor de aceleración de 3 ejes
Batería de respaldo	Súper condensador integrado
Potencia de entrada	12 VCC – 24 VCC (conector CC:  (Ø 3,5 x Ø 1,35), máx. 1 A/12 V)
Consumo de electricidad	Promedio de 300 mA (3,60 W a 12 V, si el Wi-Fi está apagado y no hay un receptor GPS externo conectado) Promedio de 350 mA (4,20 W a 12 V, si el Wi-Fi está encendido y hay un receptor GPS externo conectado) * El consumo eléctrico real puede variar según las condiciones y el entorno de uso.
Temperatura de funcionamiento	-20 °C – 70 °C (-4 °F – 158 °F)
Temperatura de almacenamiento	-20 °C – 80 °C (-4 °F – 176 °F)
Corte por alta temperatura	Aprox. 70 °C (158 °F)
Certificados	FCC, CE, RoHS, Telec, WEEE, IC
Software	BlackVue Viewer * Windows XP o superior y Mac Yosemite OS X (10.10) o superior
Aplicación	Aplicación BlackVue (Android 4.4.2 o superior, iOS 8.0 o superior)
Otras características	Sistema de gestión de archivos gratuito de formato adaptativo

► 包装箱内容

安装 BlackVue 行车记录仪之前，请检查包装箱内以下物品。



前置摄像头



后置摄像头



电源线



后置摄像头
接线电缆



microSD 卡



microSD 卡适配器



快速入门指南



电线夹 (5 EA)



外部 GPS (可选)

需要帮助?

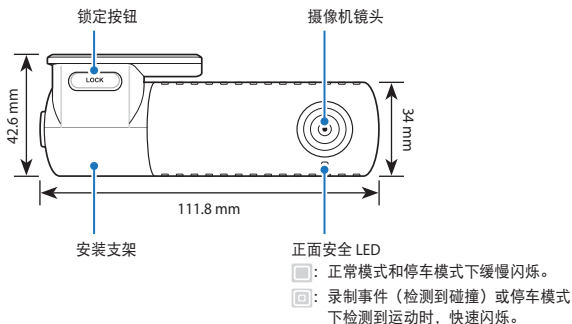
请下载说明书和最新固件，网址：www.blackvue.com/cn

或者联系客户支持专家，电子邮箱：cs@pittasoft.com

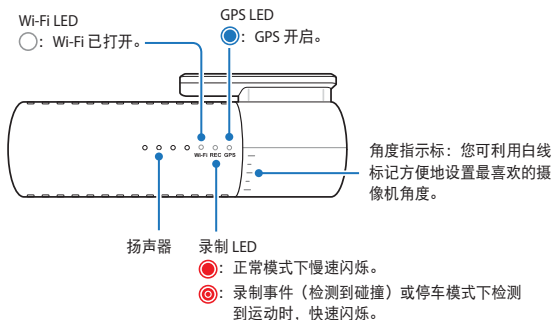
产品简介

以下图示介绍了 BlackVue 行车记录仪的每个部分。

前置摄像头

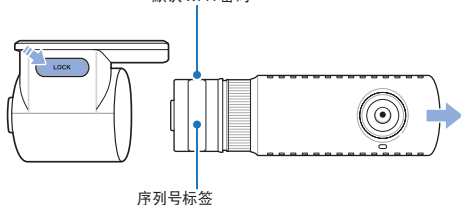


中文



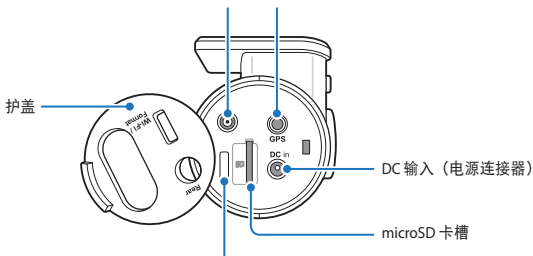
Wi-Fi 详细信息标签:

- 默认 Wi-Fi SSID
- 默认 Wi-Fi 密码



后部（后置摄像头连接端口）

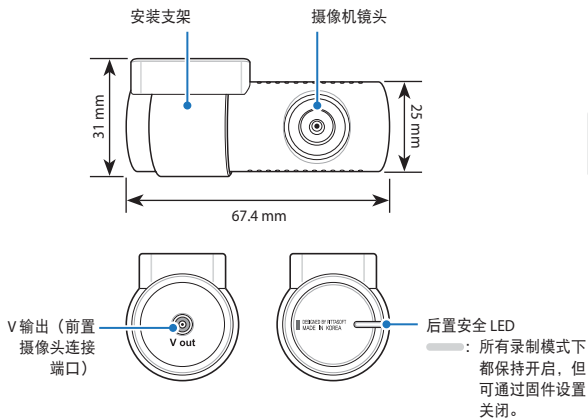
GPS 连接端口



Wi-Fi / 格式化按钮

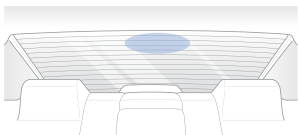
- 按一次以打开/关闭 Wi-Fi。
- 自格式化功能: 要格式化 microSD 卡, 按住按钮保持 10 秒钟, 直到行车记录仪发出哔哔声。

□ 后置摄像头



步骤 1 安装和上电

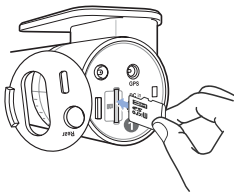
将前置摄像头安装在后视镜后面。将后置摄像头安装在后挡风玻璃顶部。安装前应清除异物并清洗和干燥挡风玻璃。



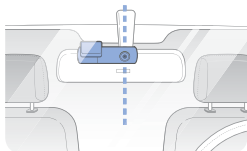
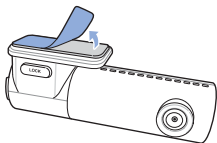
警告

- 请勿将产品安装在阻挡驾驶员视野的位置。

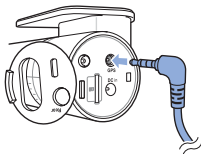
- (A) 关闭发动机。打开 microSD 卡槽盖，轻轻将卡推入槽内，直到锁紧入位，然后关闭扣盖。



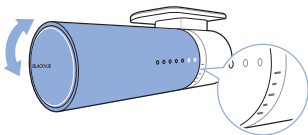
- Ⓑ 揭掉前置摄像头和后置摄像头上的塑料膜。揭掉双面胶的保护膜，将前置摄像头粘在挡风玻璃上位于后视镜后面的位置。



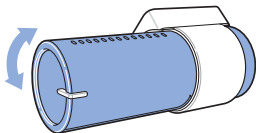
- Ⓒ 可选的 GPS 接收器：插入 GPS 接收器，并将接收器固定在挡风玻璃角落位置。使用撬具将电线塞入挡风玻璃密封条。



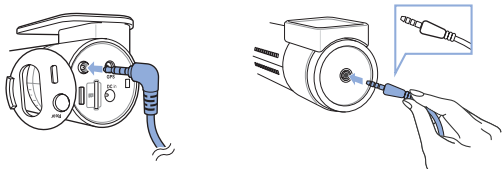
- Ⓓ 通过转动前置摄像头机身调整镜头角度。建议让镜头方向略微朝下（比水平线大约低 10° ），以使录制视频中的路面与背景比为 6:4。



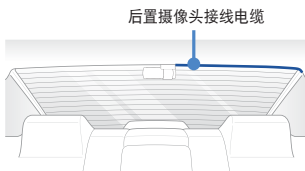
- ⑤ 揭掉双面胶保护膜，将后置摄像头固定在后挡风玻璃上。通过转动后置摄像头机身调整镜头角度。



- ⑥ 使用后置摄像头连接电缆连接前置摄像头（‘后’端口）与后置摄像头。

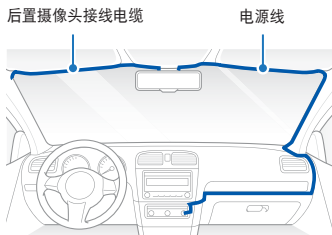


- ⑦ 使用撬具撬起窗户橡胶密封条和模塑的边缘，并塞入后置摄像头连接线。



- ⑧ 将电源线插入点烟器插座和前置摄像头中。

- ① 使用撬具撬起挡风玻璃密封条/模塑的边缘，并塞入电源线。



- ② 启动发动机。BlackVue 行车记录仪上电并开始录制。影像文件存储在 microSD 卡中。当 microSD 卡装满时，最新影像文件会替换最老的影像文件（称为**循环录制**），因此，您始终可获得最近的影像文件。

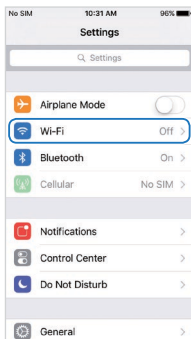
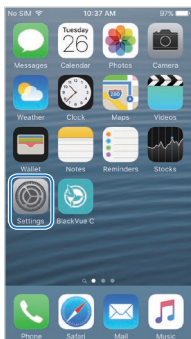
注意

- 共有 3 种录制模式：正常、事件和停车。行车记录仪在正常模式下开始录制，当检测到碰撞时切换到事件模式，如果车辆保持静止 5 分钟，会切换至停车模式。
- 首次运行行车记录仪时，固件会自动加载到 microSD 卡上。固件加载到 microSD 卡上之后，您可以在计算机上使用 BlackVue Viewer 进行自定义设置。

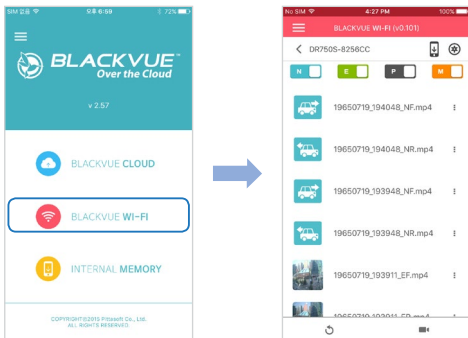
步骤 2 播放

□ 在您的智能手机 (Android/iOS) 上播放视频文件

- A 在 Google Play Store 或 Apple App Store 中搜索 BlackVue 应用，并安装在智能手机上。
- B 通过 direct Wi-Fi 将您的智能手机与 BlackVue 行车记录仪“配对”：
 - (i) 拔出电源线并将前置摄像头从其支架上拆下。保持 Wi-Fi 详细信息标签可见，插入电源线并等待行车记录仪开始正常录制。按一次 Wi-Fi 按钮打开 Wi-Fi。
 - (ii) 进入智能手机的**设置**，然后选择 **Wi-Fi**，确保 Wi-Fi 打开。



- (iii) 从网络列表中选择您的 BlackVue 行车记录仪。行车记录仪的默认 SSID 以型号编号开头（例如 BlackVue590W-*****）。
- (iv) 输入密码，并点击加入。
- * 默认 Wi-Fi SSID 和密码打印在行车记录仪的 Wi-Fi 详细信息标签上。
- (v) 打开 BlackVue 应用，并选择 BLACKVUE WI-FI。



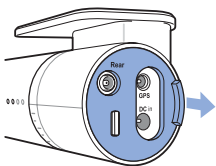
- ③ 从视频列表中选择想播放的视频文件。

注意

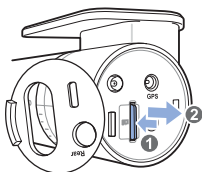
- 所有图片仅供演示参考。实际应用可能与所示图片不同。

□ 在您的**计算机** (Windows/Mac) 上播放视频文件

Ⓐ 从行车记录仪中取出 microSD 卡。

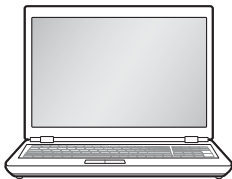


打开侧盖



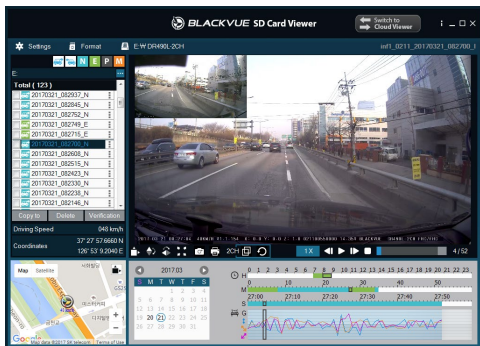
取出

Ⓑ 使用自带的 microSD 卡适配器将卡连接至计算机。

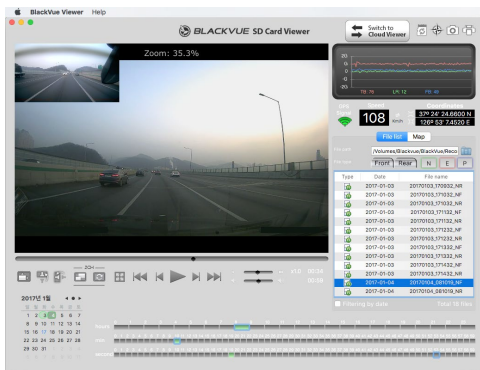


Ⓒ 下载 BlackVue Viewer，下载地址：www.blackvue.com/cn > 服务支援 > 下载专区，并安装到您的计算机。

④ 运行 BlackVue Viewer。



Windows Viewer



Mac Viewer

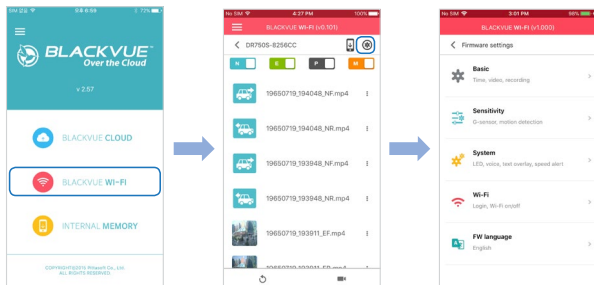
* 所有图片仅供演示参考。实际程序可能与图片不同。

步骤 3 更改行车记录仪的时区和其他设置。

行车记录仪的时区最初设置为(GMT-11)。要显示正确时间，请选择您的时区。

□ 使用智能手机（安卓/iOS）

- Ⓐ 通过 direct Wi-Fi 将您的智能手机与 BlackVue 行车记录仪“配对”（如需了解详情，请见步骤 2“在您的智能手机上播放视频文件”）
- Ⓑ 打开 BlackVue 应用，并选择 BLACKVUE WI-FI。
- Ⓒ 点击  按钮访问固件设置菜单。



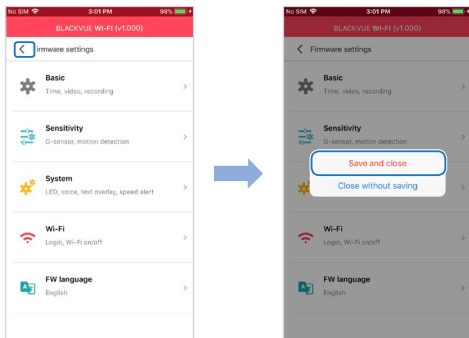
- Ⓓ
 - (i) 选择基本设置 > 时间。
 - (ii) 如果在连接 GPS 接收器的情况下运行行车记录仪，请选择所在时区以便与 GPS 时间自动同步。如果未连接 GPS 接收器，可在启用手动时间设置之后设置时间和日期。

E

返回固件设置菜单，配置其他设置。

可更改的设置包括视频分辨率、图像质量、视频段长度、灵敏度设置、录音打开/关闭、速度单位（km/h、MPH、关闭）、LED 打开/关闭、语音导航音量，Wi-Fi 设置等。

设置完成后，点击 <，再点击保存并关闭。



❑ 在计算机(Windows/Mac)上更改行车记录仪的时区和其他固件设置

Ⓐ 下载 BlackVue Viewer，下载地址：www.blackvue.com/cn > 服务支持 > 下载专区，并安装到您的计算机。将行车记录仪的 microSD 卡连接到计算机后，运行 BlackVue Viewer 程序。点击  Settings 按钮（Windows 系统）或  BlackVue Viewer 菜单（Mac 系统）以打开 BlackVue 设置面板。

Ⓑ 时区设置

如果不连接 GPS 接收器：

要手动设置时间，请选择**手动时间设置**并设置日期和时间。

如果连接 GPS 接收器：

如果运行行车记录仪时连接 GPS 接收器，可与 GPS 时间同步。要与 GPS 时间同步，请选择您的 GMT 时区。出厂设置为 GMT-11。

如果对所在城市的 GMT 时差不确定，请通过以下网址查阅：

<https://greenwichmeantime.com/>

Ⓒ 其他设置

可以调整的设置包括：

- 基本：时间、视频（分辨率、图像质量、夜视、亮度）、录制（正常录制、自动停车模式、录音、日期&时间显示、速度单位、视频段长度、后置摄像头旋转）
- 灵敏度：G 传感器（正常模式、停车模式）、运动检测（停车模式）
- 系统：LED、语音导航、音量、预定重启、速度警报、用户文本叠加
- Wi-Fi：SSID 和密码更改

实现最佳性能的技巧

- Ⓐ 每月将 microSD 卡格式化一次，或者在 BlackVue 行车记录仪告知您的卡片需要维护时将 microSD 卡格式化。

在 BlackVue 中格式化 microSD 卡：

按下 Wi-Fi/格式化按钮 10 秒钟，直到行车记录仪发出蜂鸣声。

使用 BlackVue Viewer (Windows) 进行格式化：

将 microSD 卡插入 microSD 卡适配器，连接到计算机。下载 BlackVue Viewer，下载地址：www.blackvue.com/cn > 服务支援 > 下载专区，并安装到您的计算机。运行 BlackVue Viewer，点击  Format 格式化按钮，选择存储卡驱动器并点击“确认”。

使用 BlackVue Viewer (macOS) 进行格式化：

将 microSD 卡插入 microSD 卡适配器，连接到计算机。下载 BlackVue Viewer，下载地址：www.blackvue.com/cn > 服务支援 > 下载专区，并安装到您的计算机。运行 BlackVue Viewer，点击  格式化按钮，从左侧栏的驱动器列表中选择 microSD 卡。选择您的 microSD 卡之后，选择主窗口中的擦除标签。从格式下拉菜单中选择“MS-DOS (FAT)”，并点击擦除。

- Ⓑ 只能使用 BlackVue 官方授权的 microSD 卡。其他卡可能存在兼容问题。
- Ⓒ 定期升级固件，以提高性能并更新特性。固件升级包下载地址：www.blackvue.com/cn > 服务支援 > 下载专区。

客户支持

如需客户支持、说明书、软件和固件更新，请访问网址

www.blackvue.com/cn

您还可以给客户支持专家发送电子邮件，邮件地址：cs@pittasoft.com

产品规格

型号	DR590W-2CH
颜色/尺寸/重量	前：黑色/宽 111.8 mm x 高 34 mm/64 g 后：黑色/宽 67.4 mm x 高 25 mm/21 g
内存	microSD 卡 (16 GB/32 GB/64 GB/128 GB)
录制模式	正常录制、事件录制（当在正常和停车模式下检测到碰撞）和停车录制（当检测到运动） * 要进行停车模式录制，需要停车模式电池组 (Power Magic Battery Pack) 或停车模式硬接线套件 (Power Magic Pro)。
摄像头	前：STARVIS™ CMOS 传感器（约 210 万像素） 后：CMOS 传感器（约 200 万像素）
视角	前：对角线 139°，水平线 116°，垂直线 61° 后：对角线 140°，水平线 115°，垂直线 60°
分辨率/帧率	<前 - 后> 全高清 (1920x1080) @ 30 fps - 全高清 (1920x1080) @ 30 fps 全高清 (1920x1080) @ 30 fps - 高清 (1280x720) @ 30 fps 高清 (1280x720) @ 30 fps - 高清 (1280x720) @ 30 fps
画质	最高、高、正常
视频压缩模式	MP4
Wi-Fi	内置(802.11n (2.4 – 2.4835 GHz))
GPS	外部（可选）
麦克风	内置
扬声器 (语音导航)	内置

* STARVIS 是索尼公司的商标。

LED 指示灯	前：前置安全，REC，GPS，Wi-Fi 后：后置安全 LED
按钮	短按：Wi-Fi 打开/关闭 按下并保持：格式化 microSD 卡
传感器	三轴加速度传感器
备用电源	内置超级电容
输入电源	DC 12V – 24V (DC 插头:  (Ø3.5 x Ø1.35), 最大 1A/12V)
功耗	平均 300mA (Wi-Fi 关闭且未连接外部 GPS 接收器的情况下, 12V 时功耗为 3.60W) 平均 350mA (Wi-Fi 打开且连接外部 GPS 接收器的情况下, 12V 时功耗为 4.20W) * 实际功耗可能因使用条件和环境而变化。
工作温度	-20°C – 70°C (-4°F – 158°F)
储存温度	-20°C – 80°C (-4°F – 176°F)
高温切断	大约 70°C (158°F)
认证	FCC、CE、RoHS、Telec、WEEE、IC
软件	BlackVue Viewer * Windows XP 或更高版本, Mac Yosemite OS X (10.10) 或更高版本
应用	BlackVue 应用 (Android 4.4.2 或更高版本, iOS 8.0 或更高版本)
其他功能	自适应无格式文件管理系统

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/repared	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		Exchange/ Refund after depreciation
		When repair is unavailable even with spare parts are available		
1) Malfunction due to customer fault			Paid Repair	Paid Repair
- Malfunction & damage caused by user negligence (fall, shock, damage, unreasonable operation, etc) or careless use				
- Malfunction & damage after being serviced/repared 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				

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



FCC ID : YCK-DR590W-2CH / HVIN : DR590W-2CH / IC : 23402-DR590W2CH

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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www.blackvue.com

Made in Korea

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