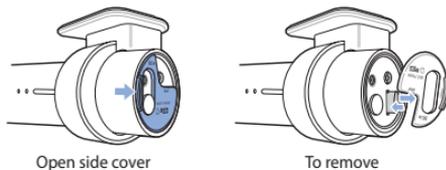




- C Select the video file you want to play from the video list.

□ Playing video files on your computer (Windows/Mac)

- A Remove the microSD card from the dashcam.



- B Insert the card into the microSD card reader and connect it to a computer.



- C Find and run the BlackVue Viewer program.

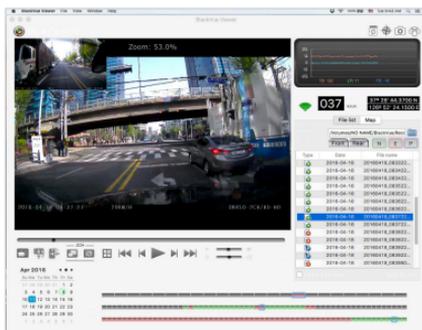
For Windows users: Open Windows Explorer and click on the microSD card (Removable Disk (F:), or the name of your card location). Go to **F:\BlackVue\Application\Viewer for Windows** and run **BlackVue.exe**.

For Mac users: Open Finder and select the microSD card reader from the list in the left frame. Go to **\BlackVue\Application\Viewer for Mac** and run **BlackVue Viewer**.

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



Windows Viewer



Mac Viewer

STEP 3 Change the time zone and Wi-Fi password

The camera's **time zone** is initially set to '**Pacific/Midway_Midway Islands**' (GMT-11). To display the correct time please select your time zone.

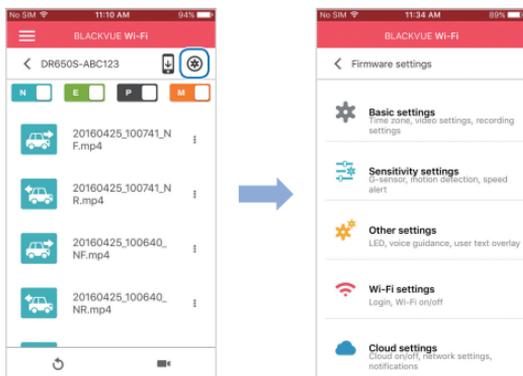
The camera's default **Wi-Fi password** is '**blackvue**'. For your security please change the password.

□ Changing the camera's time zone and Wi-Fi password using your smartphone (Android/iOS)

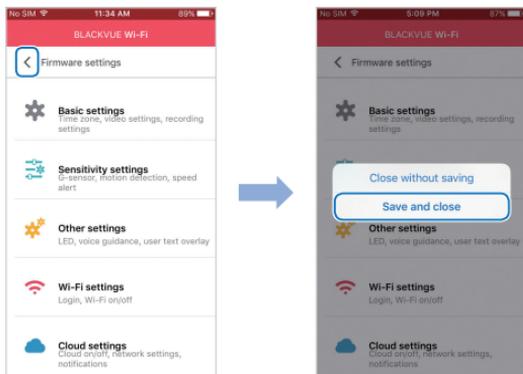
- A "Pair" your smartphone with the BlackVue dashcam via direct Wi-Fi (for details see STEP 2 'Playing video files on your smartphone')
- B Open the BlackVue C app and select BLACKVUE WI-FI.



- C Tap the  button to access the Firmware settings menu.



- D (i) Select **Basic settings** > **Time zone**.
- (ii) Select your time zone in the drop-down list. If your city is not in the list, select any other city within the same time zone.
- (iii) Go back to the Firmware settings menu.
- (iv) Select **Wi-Fi settings** > **Login credentials**.
- (v) You can change the camera's SSID and Wi-Fi login password.
- E Go back to the Firmware settings menu, tap  and tap **Save and close**.

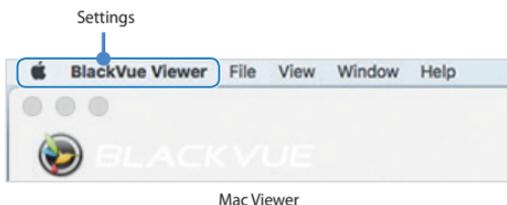
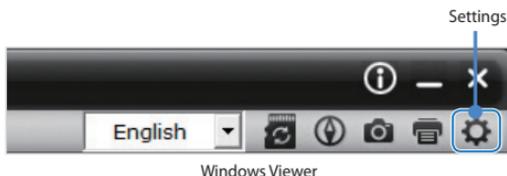


The new settings will be uploaded to your BlackVue dashcam and it will reboot. After rebooting, the new settings will take effect.

Other settings that can be changed in the Firmware settings menu include the video resolution, image quality, video file duration, voice recording on/off, speed unit (km/h, MPH, off), LEDs on/off, voice guidance volume, rear camera settings, Wi-Fi settings and Cloud settings.

□ Changing the camera's time zone and Wi-Fi password on your computer (Windows/Mac)

Open BlackVue Viewer and click on the  button or the  BlackVue Viewer menu to access the settings panel.



Settings that can be changed include the time zone, Wi-Fi password, video resolution, image quality, video file duration, voice recording on/off, speed unit (km/h, MPH, off), LEDs on/off, voice guidance volume, rear camera settings, Wi-Fi settings and Cloud settings.

For more information about changing the settings in BlackVue Viewer, please download the manual from www.blackvue.com > **Support** > **Downloads**.

STEP 4 Connect to BLACKVUE CLOUD (optional)

If you don't have a mobile Wi-Fi hotspot, or if you don't want to use the BLACKVUE CLOUD service, you can skip this step.

If you have a mobile Wi-Fi hotspot (also known as a portable Wi-Fi router), a car-embedded wireless internet network or a Wi-Fi network near your car, you can use the BlackVue C app to connect to BLACKVUE CLOUD and see in real-time where your car is and the dashcam's live video feed.

For more information about using the BlackVue C app, please download the Cloud Manual from www.blackvue.com > **Support** > **Downloads**.

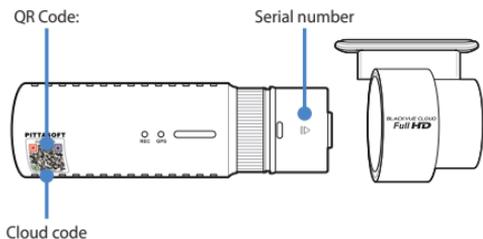
A Create an account

- (i) Open the BlackVue C app.
- (ii) Tap the  button in the top-left corner and select **Create account**.
- (iii) Enter your email address and choose a password. Re-enter your password and press **Next**.
- (iv) After reading the Terms & Policies, check the boxes and press the **Create account** button to continue.
- (v) You will receive an e-mail. Click the link in the email to finish creating your account.

B Register your dashcam with your account

- (i) In the BlackVue C app select **BLACKVUE CLOUD** and login to your account.
- (ii) Tap **Yes** to enable push notifications (this setting can be adjusted at any time later).
- (iii) Select **Register new camera**.
- (iv) Register your camera using one of the following methods:

QR Code: Press **Scan QR Code** and line up the QR Code on your smartphone's screen.

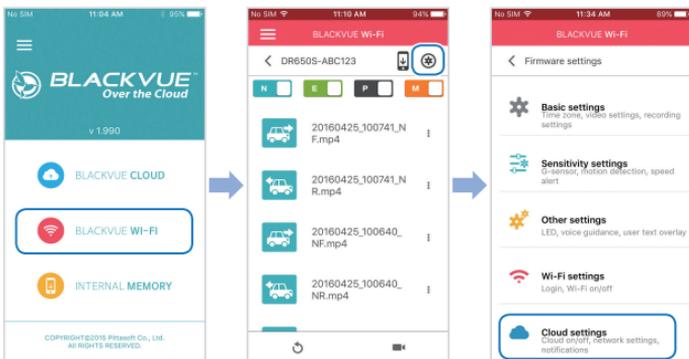


OR

Manual registration: Enter your camera's Serial number and Cloud code and press **Register**.

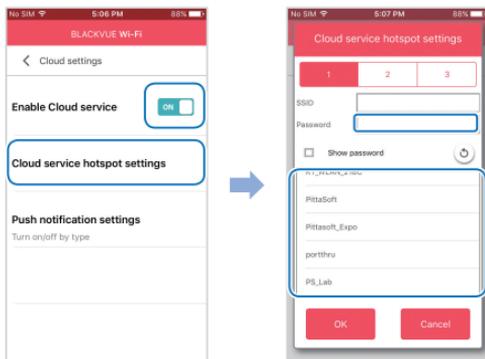
C Connect your BlackVue dashcam to a Wi-Fi hotspot for Cloud connectivity

- (i) Make sure your BlackVue dashcam and mobile Wi-Fi hotspot are on.
- (ii) "Pair" your smartphone with the BlackVue dashcam via direct Wi-Fi (for details see STEP 2 'Playing video files on your smartphone')
- (iii) Open the BlackVue C app. Select BLACKVUE WI-FI >  > **Cloud settings**.



(iv) Ensure **Enable Cloud service** is on. Select **Cloud service hotspot settings**.

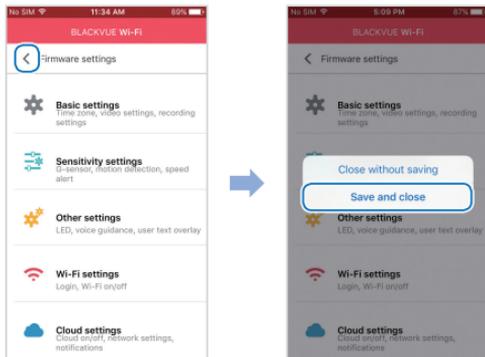
(v) Choose your Wi-Fi hotspot from the list. Enter the password and tap **OK**.



 **Note**

- Up to 3 Wi-Fi hotspot SSIDs can be saved (e.g. home, portable hotspot and work).
- The BlackVue dashcam is not compatible with 5GHz wireless networks.

(vi) Go back to the Firmware settings menu, tap  and tap **Save and close**.



After rebooting, your dashcam will automatically connect to the Wi-Fi hotspot.

Select BLACKVUE CLOUD from the main screen to access all of the Cloud features.

Tips for optimal performance

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

Self-format function:

To format the microSD card press the Wi-Fi/Format button on the side of the dashcam for 10 seconds until the dashcam beeps.

Format using BlackVue Viewer (Windows):

Download **BlackVue Windows Viewer** from www.blackvue.com > **Support** > **Downloads** and install it on your computer. Insert the microSD card into the microSD card reader and connect the reader to your computer. Launch the copy of BlackVue Viewer that is installed on your computer. Click the Format  button, select the card drive and click OK.

Format using BlackVue Viewer (Mac):

Download **BlackVue Mac Viewer** from www.blackvue.com > **Support** > **Downloads** and install it on your computer. Insert the microSD card into the microSD card reader and connect the reader to your computer. Launch the copy of BlackVue Viewer that is installed on your computer. 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 and firmware updates please visit www.blackvue.com
You can also email a Customer Support expert at cs@pittasoft.com

DR650S-2CH Specification

Model Name	DR650S-2CH
Color/Size/Weight	Front: Black / Width 118.5mm x Height 36mm / 96g Rear: Black / Width 67.4mm x Height 25mm / 28g
Memory	microSD Card (16GB / 32GB / 64GB/ 128GB)
Recording Modes	Normal Recording, Event Recording (Impact Detection), and Parking mode Recording (Motion+Impact Detection), Emergency Recording * For Parking mode recording, a Parking Mode Hardwiring Kit(Power Magic Pro) is required.
Camera	Front: CMOS Sensor (Approx. 2.1M Pixel) Rear: CMOS Sensor (Approx. 1M Pixel)
Viewing Angle	Front: Diagonal 129°, Horizontal 103°, Vertical 77° Rear: Diagonal 129°, Horizontal 108°, Vertical 57°
Resolution/Frame Rate	Front: Full HD(1920x1080)@30Fps Rear: HD(1280x720)@30Fps * Resolution/frame rate can be changed. * Frame rate is different during Parking mode and Wi-Fi streaming.
Image Quality	Highest, High, Normal
Video Compression Mode	MP4
Wi-Fi	Built-in (802.11g(2.4~2.4835GHz))
GPS	Built-in
Microphone	Built-in
Speaker (Voice Guidance)	Built-in
LED Indicators	Front: Recording LED, GPS LED, Wi-Fi LED, Front Security LED Rear: Rear Security LED
Button	Wi-Fi / Format Button * Self-format Function: Press it for 10 seconds to format the microSD card. Emergency Recording Button * Touch the button or it recognizes when a hand approaches to within about 2cm.
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. 400mA (4.8W at 12V, when GPS and Wi-Fi is On) Avg. 300mA (3.6W at 12V, when GPS and Wi-Fi is Off) * Actual power consumption may vary depending on use conditions and environment.
Operation Temperature	-20°C - 60°C(-4°F - 140°F)
Storage Temperature	-20°C - 70°C(-4°F - 158°F)
Certifications	Front: FCC, CE, RoHS, Teleg, RCM, WEEE Rear: FCC, CE, RoHS, RCM, WEEE
Software	BlackVue Viewer * Windows XP or higher(Windows 8 supported) and Mac Leopard OS X(10.5) or higher
Application	BlackVue Application (Android 4.4.2 or higher, iOS 8.0 or higher)