Blackvue DR970X Box-2CH Plus

BlackVue DR970X Box-2CH Plus Dash Cam User Manual

Model: DR970X Box-2CH Plus
Brand: BlackVue

INTRODUCTION

The BlackVue DR970X Box-2CH Plus is an advanced 2-channel dash camera system designed for comprehensive vehicle surveillance. It features a 4K Ultra High Definition front camera and a Full HD rear camera, both equipped with STARVIS sensors for superior low-light performance. Unique to this model is its separate "Box" recording unit, which enhances security and allows for a more discreet camera installation. This manual provides detailed instructions for installation, operation, and maintenance of your BlackVue dash cam system.

Image: Overview of the BlackVue DR970X Box-2CH Plus Dash Cam components and app interface.

What's in the Box

Carefully unpack the contents and verify that all items listed below are present. If any items are missing or damaged, please contact BlackVue customer support.

WHAT'S IN THE BOX?
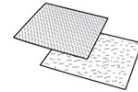
MicroSD Card & Reader

Cable clips (8EA)

Double-slide tape for the mounting brackets

Pry tool

Main unit key

Velcro strip

spare screws for tamperproof cover(2EA), Allen wrench

Main Unit

Front Camera

Rear Camera

SOS Button

Main unit hardwiring power cable (3p)

Camera connection cable (2EA)

Main unit cigarette lighter power cable (3p)

External GPS

Image: All components included in the BlackVue DR970X Box-2CH Plus retail package.

- 1 x Main unit (Secure Box)
- 1 x Front camera
- 1 x Rear camera
- 1 x SOS button
- 1 x External GPS module
- 1 x Main unit cigarette lighter power cable
- 2 x Camera connection cables
- 1 x Main unit hardwiring power cable
- 1 x microSD card (64GB)
- 1 x microSD card reader
- 1 x Quick start guide
- 1 x Velcro strip
- 1 x Pry tool
- 1 x Main unit key
- 1 x Allen wrench

- Spare mount sticky pads
- Screws
- 8 x Cable clips

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and security. The modular design allows for flexible placement of components.

1. Planning Component Placement

- **Front Camera:** Mount on the windshield, ideally behind the rearview mirror, to ensure a clear view of the road ahead without obstructing driver visibility.
- **Rear Camera:** Mount on the rear windshield, centered for a clear view of the vehicle's rear.
- **Main Unit (Box):** This unit houses the microSD card and main processor. It should be placed in a secure, discreet location, such as under a seat or in the glove compartment, to protect it from tampering and heat.
- **External GPS:** Place on the dashboard or another location with a clear view of the sky for accurate GPS signal reception.
- **SOS Button:** Mount within easy reach of the driver for manual event triggering.

2. Power Connection Options

The DR970X Box-2CH Plus offers two primary power connection methods:

- **Cigarette Lighter Power Cable:** For simple plug-and-play operation. Connects to your vehicle's 12V auxiliary power socket. The dash cam will power on and off with the vehicle's ignition.
- **Hardwiring Power Cable:** Recommended for utilizing the built-in Parking Mode feature. This cable connects directly to your vehicle's fuse panel. Professional installation is advised for hardwiring to ensure correct wiring and prevent electrical issues.

3. Cable Management

Use the included pry tool and cable clips to neatly tuck cables along the vehicle's headliner, A-pillars, and trim. This ensures a clean installation and prevents cables from interfering with driving.

OPERATING INSTRUCTIONS

Initial Setup and App Pairing

The BlackVue App is essential for managing your dash cam settings, viewing footage, and accessing cloud features.

1. Download the BlackVue App from your smartphone's app store (iOS or Android).
2. Power on the dash cam.
3. Open the BlackVue App and select "Connect to dashcam".
4. Follow the on-screen prompts for seamless pairing. The default Wi-Fi password is typically found on a sticker on the main unit.
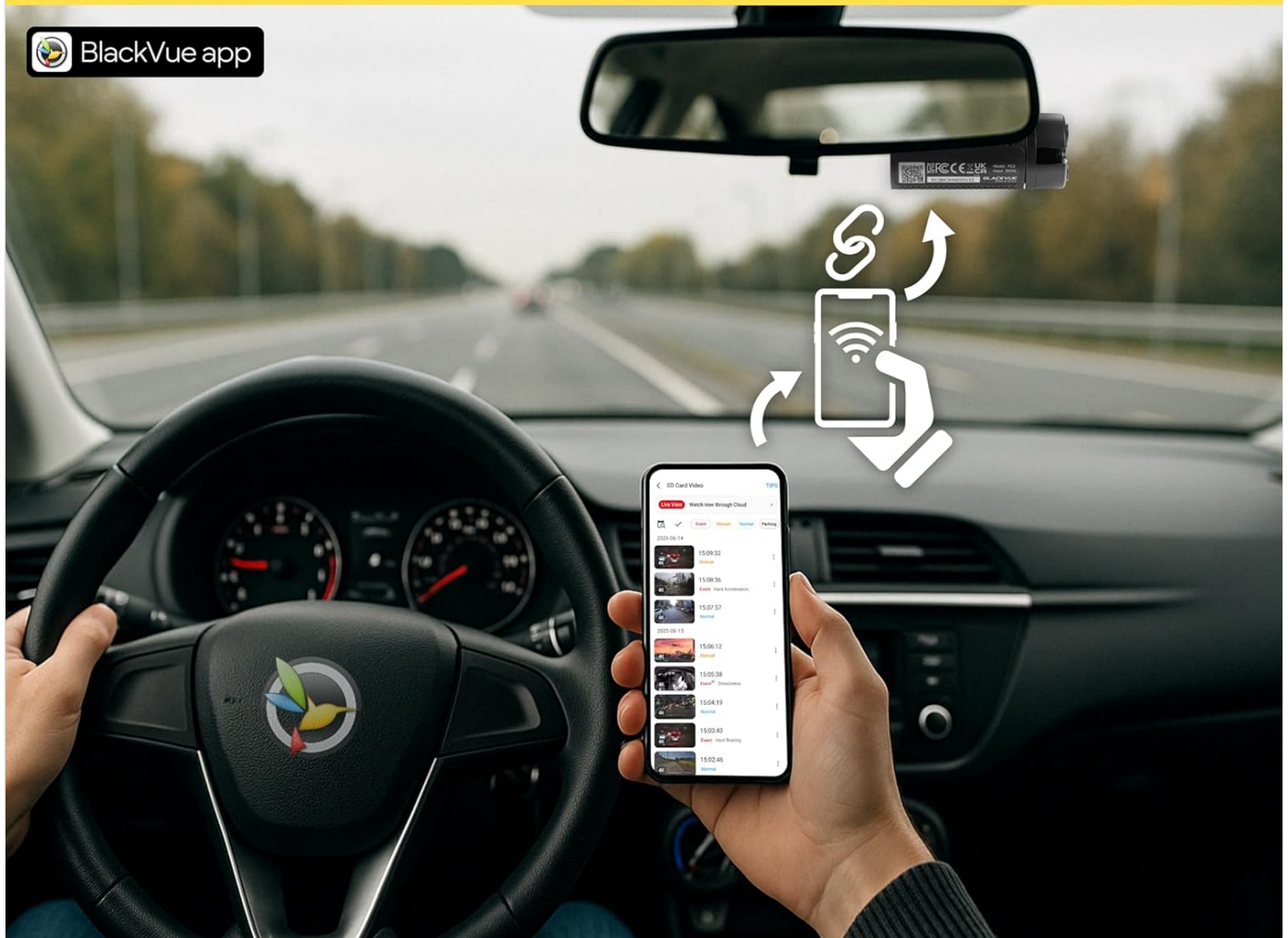5. Once connected, you can adjust settings, view live footage, and download recorded videos.

Image: Seamless pairing of the BlackVue dash cam with the BlackVue mobile application.

Recording Modes

- **Normal Recording:** Continuous loop recording while driving. Older files are overwritten as the microSD card fills up.
- **Event Recording:** Triggered by impacts (G-sensor) or manually via the SOS button. These files are protected from being overwritten.
- **Parking Mode:** Activates automatically when the vehicle's ignition is turned off (requires hardwiring). Records events based on motion detection or impacts, conserving power.

Cloud Features (Optional)

For full cloud functionality, an internet connection (via Wi-Fi hotspot or optional CM100G LTE module) is required.

- **Remote Live View:** Monitor your vehicle in real-time from anywhere.
- **Live Event Upload:** Automatically back up event videos to the cloud.
- **Push Notifications:** Receive alerts for detected impacts or motion in Parking Mode.
- **GPS Tracking:** View your vehicle's real-time location and driving history.

KEY FEATURES EXPLAINED

4K UHD Front & Full HD Rear Recording with STARVIS 2 Sensor

The front camera records in stunning 4K Ultra High Definition (3840x2160) at 30 frames per second, utilizing the advanced STARVIS 2 sensor for exceptional clarity and low-light performance. The rear camera captures Full HD (1920x1080) video at 30 frames per second with a STARVIS sensor, ensuring comprehensive coverage.

Image: Visual comparison highlighting the enhanced low-light performance of the STARVIS 2 sensor.

Separate Secure Box Unit

Unlike traditional dash cams, the DR970X Box-2CH Plus stores its microSD card and main processing unit in a separate "Box" unit. This allows the cameras themselves to be smaller and more discreet, while the main unit can be hidden in a secure location (e.g., glove compartment, under a seat), providing maximum stealth and security against tampering or theft of recorded footage.

Native Parking Mode with Battery Protection

When hardwired to your vehicle's fuse panel, the dash cam automatically switches to Parking Mode when the ignition is off. It monitors your vehicle for impacts and motion. The system includes built-in battery protection, automatically shutting

down if your vehicle's battery voltage drops below a configurable threshold, preventing battery drain.

Image: Explanation of the Native Parking Mode capabilities, including various detection types.

Heat Resistance

By housing the main processor in the separate "Box" unit, which can be placed in a cooler location within the vehicle, the DR970X Box-2CH Plus mitigates overheating issues commonly found in dash cams where the processor is integrated into the front camera, especially in hot climates or direct sunlight.

5GHz Wi-Fi Connectivity

The integrated 5GHz Wi-Fi module enables faster file transfers to your smartphone via the BlackVue App, making it quicker to review and download large 4K video files.

MAINTENANCE

- **MicroSD Card Management:** Periodically format the microSD card (e.g., once a month) using the BlackVue App or a computer to ensure optimal performance and prevent data corruption. Use only BlackVue-recommended microSD cards.
- **Lens Cleaning:** Gently clean the camera lenses with a soft, lint-free cloth to ensure clear video recordings. Avoid

abrasive materials.

- **Firmware Updates:** Regularly check for and install the latest firmware updates via the BlackVue App or BlackVue website. Firmware updates often include performance improvements and bug fixes.
- **Cable Inspection:** Periodically inspect all cables for any signs of wear or damage.

TROUBLESHOOTING

Dash Cam Does Not Power On:

- Check power cable connections. Ensure the cigarette lighter socket or fuse box connection is secure and receiving power.

- If hardwired, verify the fuse is intact and the wiring is correct.

Wi-Fi Connection Issues / App Cannot Connect:

- Ensure the dash cam's Wi-Fi is enabled (check the main unit's status lights).

- Verify you are connecting to the correct BlackVue Wi-Fi network (SSID) and using the correct password (found on the main unit's sticker).

- Try restarting both the dash cam and your smartphone.

- If issues persist after a firmware update, try resetting the dash cam to factory settings (refer to the quick start guide for instructions).

Poor Video Quality / Unreadable License Plates:

- Ensure the camera lenses are clean and free from smudges or dirt.

- Verify that the recording resolution is set to the highest available (4K for front, Full HD for rear) in the BlackVue App settings.

- Check the camera's mounting angle. The horizon should be roughly in the middle of the frame.

Dash Cam Shuts Down in Hot Weather:

- While the Box unit design helps with heat dissipation, extreme temperatures can still affect performance. Ensure the main unit is placed in the coolest possible location within the vehicle, away from direct sunlight.

- Ensure proper ventilation around the main unit.

Parking Mode Not Activating:

- Confirm the dash cam is hardwired to the vehicle's fuse panel, not just using the cigarette lighter adapter.

- Check Parking Mode settings in the BlackVue App to ensure it's enabled and voltage cutoff/timer settings are appropriate for your vehicle's battery.

SPECIFICATIONS

Feature	Detail
Model Name	BlackVue DR970X Box-2CH Plus
Front Camera Resolution	4K Ultra HD (3840x2160) @ 30FPS
Front Camera Sensor	STARVIS 2 CMOS Sensor
Front Camera Angle	146-degree wide angle
Rear Camera Resolution	Full HD (1920x1080) @ 30FPS
Rear Camera Sensor	STARVIS CMOS Sensor

Feature	Detail
Rear Camera Angle	131-degree wide angle
Connectivity	Built-in 5GHz Wi-Fi, GPS, Optional LTE via CM100GLTE module
Storage	microSD card (up to 512GB supported, 64GB included)
Parking Mode	Native with built-in voltage monitor (requires hardwiring)
Control Method	BlackVue App
Product Dimensions	6.3 x 10.2 x 4.3 inches (Main Unit)
Item Weight	3.14 pounds
Color	Black
Manufacturer	Pittasoft
First Available Date	February 10, 2024

WARRANTY AND SUPPORT

The BlackVue DR970X Box-2CH Plus comes with a **2-year manufacturer warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
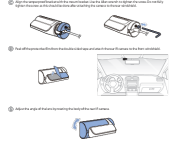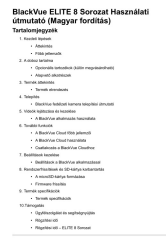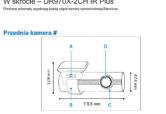
For technical support, warranty claims, or further assistance, please visit the official BlackVue website or contact their customer service department. Keep your proof of purchase for warranty validation.

Official BlackVue Store: BlackVue Amazon Store

Related Documents - DR970X Box-2CH Plus

	BlackVue DR970X Box-2CH Plus Series: User Manual and Installation Guide Comprehensive guide to the BlackVue DR970X Box-2CH Plus Series dashcam, covering features, installation, software usage, specifications, and maintenance. Learn how to download videos, use the Web Viewer, and optimize performance.

[BlackVue DR970X Box-2CH Plus Series Installation and User Guide](#)
A comprehensive guide to installing and using the BlackVue DR970X Box-2CH Plus Series dashcam, including rear camera setup, GNSS module installation, connectivity module installation, power cable options, and app usage.

[BlackVue DR600GW-HD User Manual: Installation, Features, and Operation](#)
Comprehensive user manual for the BlackVue DR600GW-HD dashcam by Pittasoft. Learn about installation, safety precautions, product features, video recording modes, playback options, software configuration, and firmware updates.

[BlackVue ELITE 8 Sorozat Használati útmutató](#)
Ez a felhasználói útmutató a BlackVue ELITE 8 sorozatú fedélzeti kamerák telepítését, beállítását és használatát ismerteti, beleértve a Cloud funkciókat, a felvételi beállításokat és a firmware frissítést. Fedezze fel a fejlett funkciókat a biztonságosabb és intelligensebb vezetés érdekében.

[BlackVue DR970X-2CH IR Plus: Przegląd komponentów i funkcji](#)
Szczegółowy przegląd kamery samochodowej BlackVue DR970X-2CH IR Plus, opisujący komponenty, wskaźniki LED oraz instrukcje montażu i demontażu kamery przedniej i tylnej.

[BlackVue DR650S-2CH IR User Guide: Infrared Interior Camera](#)
User guide for the BlackVue DR650S-2CH IR dashcam, detailing its features, specifications, and installation instructions for the infrared interior camera.