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Blackvue DR970X-1CH Plus II

BlackVue DR970X-1CH Plus II Dash Cam User Manual

Your guide to setup, operation, and maintenance

1. INTRODUCTION

The BlackVue DR970X-1CH Plus II is a high-performance 4K UHD dash camera designed to record your driving in exceptional detail. Featuring a STARVIS 2 sensor, HDR technology, and advanced parking mode, it provides reliable surveillance for your vehicle. This manual provides essential information for installing, operating, and maintaining your dash cam.

2. WHAT'S IN THE BOX

Before you begin, please verify that all components are present:

WHAT'S IN THE BOX?



Cable clips (5EA)



Double-slide tape for the mounting bracket



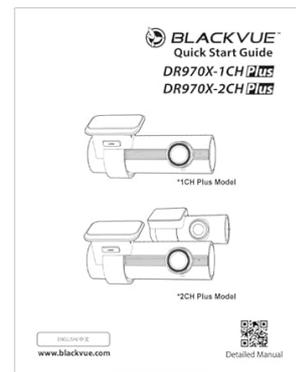
Pry tool



MicroSD Card & Reader



Dash Cam



Quick Start Guide



Hardwiring power cable



Cigarette lighter power cable

Image: The image displays the contents of the BlackVue DR970X-1CH Plus II dash cam box. Included items are: the BlackVue DR970X-1CH Plus II dash cam, a MicroSD card and reader, a Quick Start Guide, cable clips (5EA), double-slide tape for the mounting bracket, a pry tool, a hardwiring power cable, and a cigarette lighter power cable.

- BlackVue DR970X-1CH Plus II Dash Cam
- MicroSD Card & Reader
- Quick Start Guide
- Cable Clips (5EA)
- Double-slide Tape for Mounting Bracket
- Pry Tool
- Hardwiring Power Cable
- Cigarette Lighter Power Cable

3. SETUP

3.1 Mounting the Dash Cam

1. **Choose Location:** Select a location on your windshield, typically behind the rearview mirror, that does not obstruct your view. Ensure the camera lens has a clear view of the road ahead.
2. **Clean Surface:** Clean the chosen area on the windshield thoroughly with an alcohol wipe and let it dry completely.

3. **Attach Mount:** Peel off the protective film from the double-sided tape on the mounting bracket. Firmly press the mount onto the cleaned windshield surface for at least 30 seconds.
4. **Insert Dash Cam:** Slide the dash cam onto the mounted bracket until it clicks into place. Adjust the camera angle to ensure optimal recording coverage.

4K STARVIS 2 SENSOR

FRONT 4K UHD | REAR FULL HD

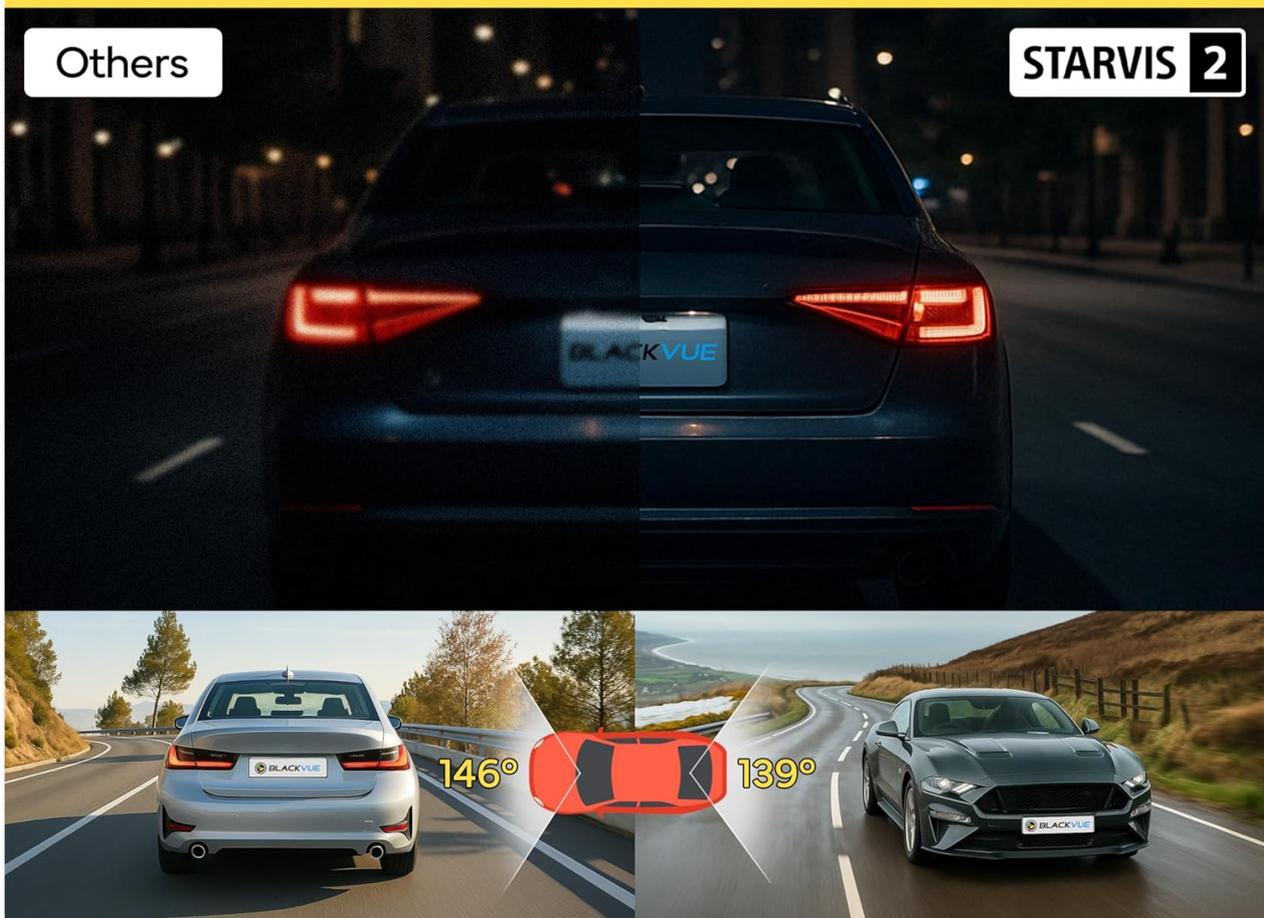


Image: The image shows the BlackVue DR970X-1CH Plus II dash cam discreetly installed on the upper center of a car's windshield, behind the rearview mirror, demonstrating a typical mounting position.

3.2 Power Connection

Connect the dash cam to your vehicle's power supply using either the included cigarette lighter power cable or the hardwiring power cable for Parking Mode functionality.

- **Cigarette Lighter Power Cable:** Plug one end into the dash cam's power port and the other into your vehicle's 12V cigarette lighter socket.
- **Hardwiring Power Cable:** For continuous power and Parking Mode, connect the hardwiring cable to your vehicle's fuse box. Consult a professional for installation if you are unsure.

Hassle-Free Installation

Quick & easy setup with the included USB-C power cable and cigarette lighter adapter—ready to use in any vehicle.



Image: This image illustrates the hassle-free installation process, showing the dash cam connected via a USB-C power cable to a cigarette lighter adapter plugged into a car's power outlet.

3.3 MicroSD Card Insertion

The dash cam requires a MicroSD card for recording. Insert the provided MicroSD card into the designated slot on the dash cam until it clicks. Ensure the card is inserted correctly to avoid damage.

3.4 BlackVue App Pairing (Wi-Fi)

To access settings, view live footage, and download recordings, connect your smartphone to the dash cam via Wi-Fi using the BlackVue App.

1. **Download App:** Download the BlackVue App from the Apple App Store or Google Play Store.
2. **Power On Dash Cam:** Turn on your vehicle's ignition to power the dash cam.
3. **Activate Wi-Fi:** Press the Wi-Fi button on the dash cam (if applicable, refer to Quick Start Guide for exact button location).
4. **Connect to Wi-Fi:** On your smartphone, go to Wi-Fi settings and select the BlackVue network (e.g., "BlackVue_XXXXXX"). Enter the default password (usually "blackvue").
5. **Launch App:** Open the BlackVue App and follow the on-screen instructions to register your dash cam and access its features.

SEAMLESS PAIRING WITH THE BLACKVUE APP

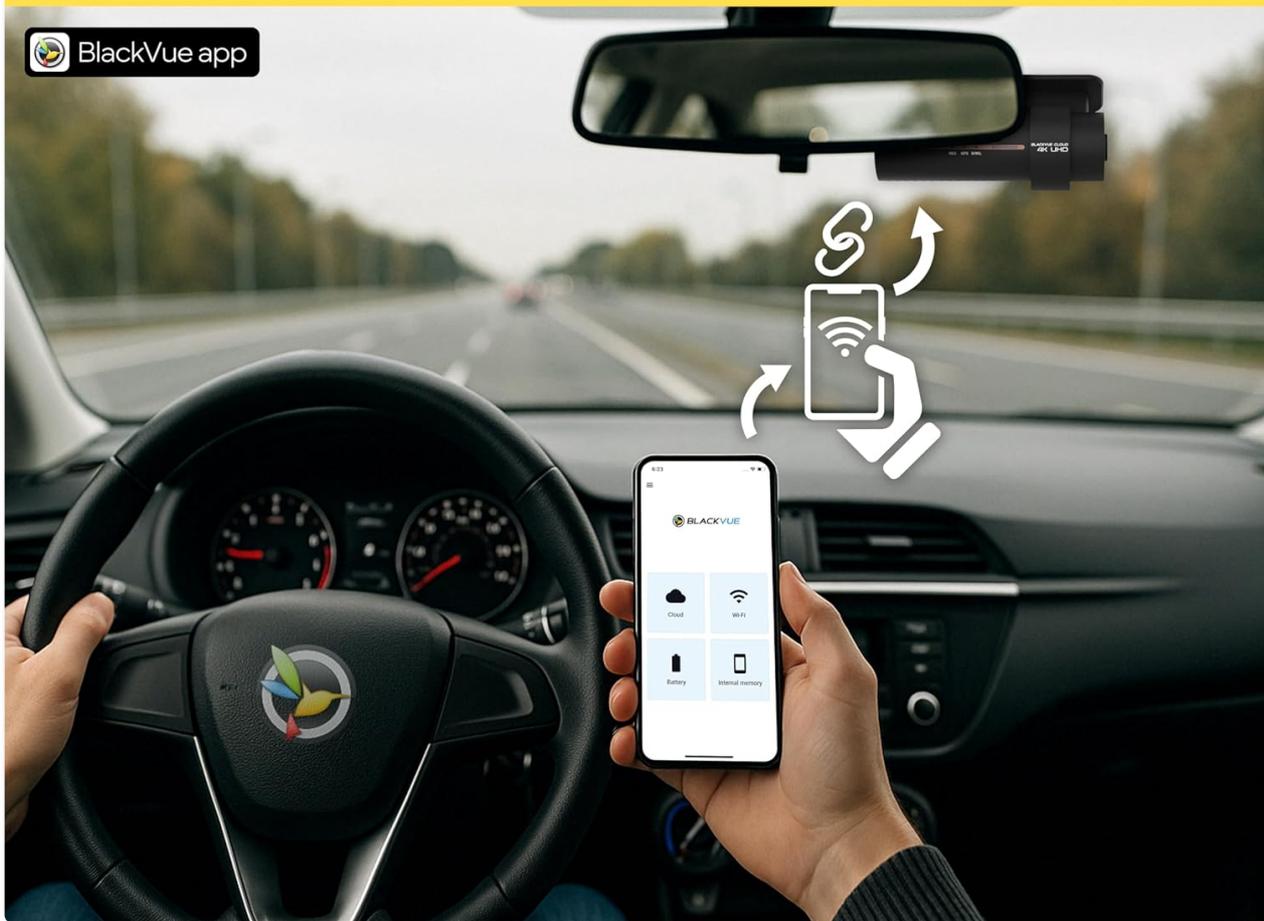


Image: This image illustrates the seamless pairing process, showing a smartphone displaying the BlackVue app interface with options for Cloud, Wi-Fi, and other settings, while a hand holds the phone in a car interior with the dash cam visible.

4. OPERATING INSTRUCTIONS

4.1 Basic Recording (Loop Recording)

The DR970X-1CH Plus II automatically begins recording when powered on. It utilizes loop recording, continuously overwriting the oldest files when the MicroSD card is full, ensuring uninterrupted recording. Important event files are protected from being overwritten.

Endless Loop Recording, Built to Last

Reduces SD card errors and extends lifespan - no formatting or replacements needed.



Image: The image depicts the concept of 'Endless Loop Recording', showing a film strip with various driving scenes looping around the BlackVue dash cam, indicating continuous recording without manual intervention.

4.2 Parking Mode

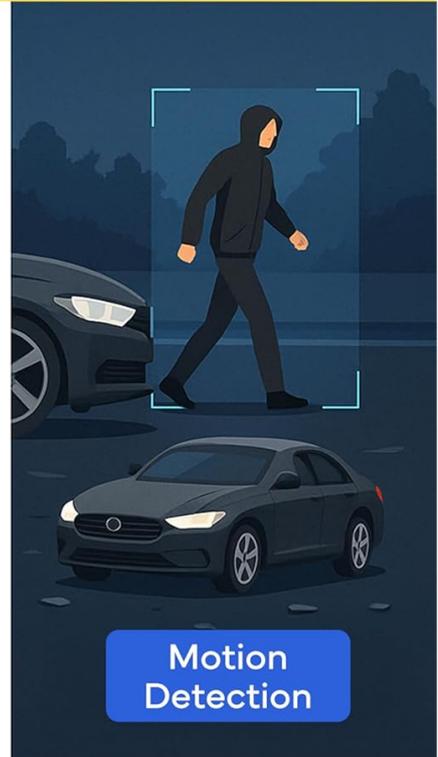
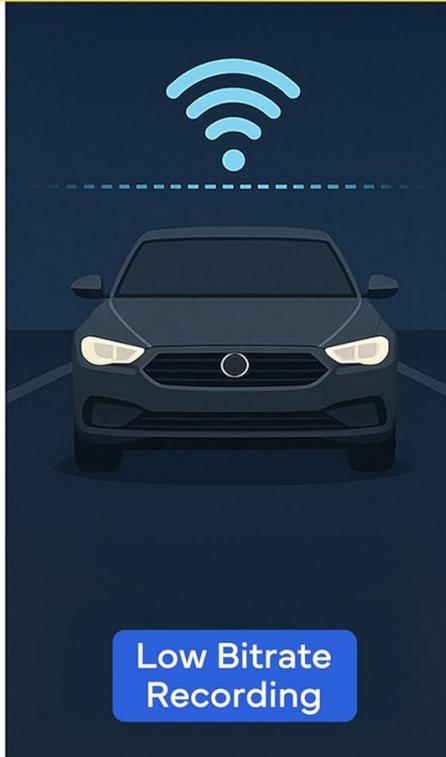
When your vehicle's ignition is turned off, the dash cam automatically switches to Parking Mode (requires hardwiring installation). It records events based on:

- **Collision Detection:** Records when an impact is detected.
- **Motion Detection:** Records when movement is detected in the camera's field of view.
- **Low Bitrate Recording:** Records continuously at a lower bitrate to save storage space during extended parking sessions.

You can adjust Parking Mode settings, including voltage cut-off and timer, via the BlackVue App.



IGNITION OFF PARKING MODE ON!



**Easily set the voltage cutoff and timer
with the BlackVue App using the Native Parking mode**

Image: This graphic explains the 'Parking Mode' functionality, showing three scenarios: a collision being detected, low bitrate recording indicated by a Wi-Fi signal, and motion detection with a person walking near a parked car. It highlights the ability to set voltage cutoff and timer via the BlackVue App.

4.3 Event Recording

The dash cam detects key driving events such as sudden impacts or rapid changes in speed and saves these recordings separately to prevent them from being overwritten by loop recording. It captures 10 seconds before impact and continues recording after, protecting up to 50 event files.

Smart Event Recording

Detects key driving events, captures moments **10 seconds before impact**, and **protects up to 50 recordings** from being overwritten.



Image: The image illustrates 'Smart Event Recording', depicting a car collision and the dash cam capturing the incident, emphasizing its ability to detect and record key driving events.

4.4 Cloud Features

With an optional CM100G LTE module (sold separately) or a mobile hotspot, you can unlock BlackVue Cloud features:

- **Live View:** Monitor your vehicle in real-time from anywhere.
- **Remote Playback:** Access and play recorded videos remotely.
- **Auto Backup:** Automatically upload important event files to the cloud.
- **Push Notifications:** Receive real-time alerts for detected events.
- **GPS Tracking:** View your vehicle's location and route history.

Cloud Dashcam, Always ON!

Protect your car in real time with Live View, Instant Alerts, and Cloud Backup.



BlackVue Cloud connection required.



Image: This image showcases the 'Cloud Dashcam, Always ON!' feature, displaying a smartphone with the BlackVue app showing a map and various cloud functionalities like Live View, Push Notifications, Cloud Backup, Download Videos, Change Settings, and Update Firmware.

4.5 Video Playback

Videos can be played back directly on your smartphone via the BlackVue App (Wi-Fi connection required) or by removing the MicroSD card and inserting it into a computer with the BlackVue Viewer software.

5. MAINTENANCE

5.1 MicroSD Card Management

The BlackVue DR970X-1CH Plus II is designed for endless loop recording, which reduces SD card errors and extends lifespan, minimizing the need for frequent formatting or replacements. However, it is still recommended to periodically check the card's health and ensure sufficient free space for new recordings.

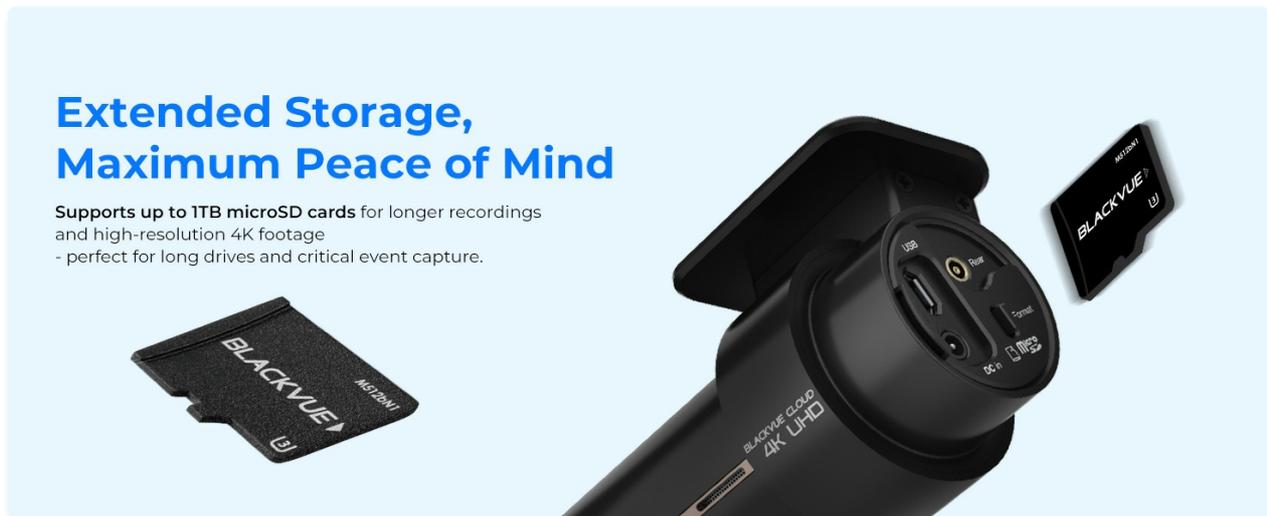


Image: The image highlights 'Extended Storage', showing BlackVue branded microSD cards floating near the dash cam's port, indicating support for up to 1TB cards for longer recordings.

5.2 Firmware Updates

Regularly check for firmware updates via the BlackVue App or the official BlackVue website. Updating the firmware ensures optimal performance, new features, and bug fixes. Follow the instructions provided with the firmware update carefully.

5.3 Cleaning

Gently wipe the dash cam's lens and body with a soft, dry, lint-free cloth. Avoid using harsh chemicals or abrasive materials that could scratch the lens or damage the device.

6. TROUBLESHOOTING

- **Dash Cam Not Powering On:** Check the power cable connection to both the dash cam and the vehicle's power source. Ensure the vehicle's ignition is on if using the cigarette lighter adapter.
- **No Recording:** Verify that a MicroSD card is properly inserted and formatted. Check the BlackVue App for any error messages.
- **Wi-Fi Connection Issues:** Ensure the dash cam's Wi-Fi is activated. Try restarting both the dash cam and your smartphone. Confirm the correct Wi-Fi password.
- **Parking Mode Not Activating:** Ensure the dash cam is hardwired to the vehicle's power supply. Check Parking Mode settings in the BlackVue App.
- **Poor Video Quality:** Clean the camera lens. Ensure the firmware is up to date. Check recording resolution settings in the BlackVue App.

7. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Name	DR970X-1CH Plus II
Video Capture Resolution	2160p (4K UHD)
Frame Rate	30fps
Sensor	STARVIS 2
HDR Support	Yes
Connectivity	Wi-Fi, Cloud (via optional LTE module)
Storage	Supports microSD cards up to 1TB
Power Input	USB-C
Parking Mode	Yes (Collision, Motion, Low Bitrate)
Product Dimensions	7.8 x 4.9 x 4 inches
Item Weight	1.43 pounds
Color	Black
Manufacturer	Pittasoft
UPC	889186013093

8. ACCESSORY COMPATIBILITY

The BlackVue DR970X-1CH Plus II is compatible with various accessories to enhance its functionality. Refer to the table below for compatibility details:

Accessory	DR Series II (DRXXII / Plus II)	Elite 8 Series
Power cable (3-wire) (CL-3P1)	✔ Compatible	✔ Compatible
USB-C power cable (USBC-3P)	✔ Compatible	✔ Compatible
OBD II Power Cable BOC 300	✔ Compatible	✔ Compatible
Rear-camera coax cable (CC-6/1.5/15T)	✔ Compatible	✘ Requires CC6G-6 (Elite only)
Front-camera mount/bracket	Shared among DR770X/970X Plus	Elite-specific mount (new mounting)
Rear Camera mount (RM75)	✔ Compatible	✘ Elite-specific mount (new mounting)
CPL-2 filter (CPL-2)	DR970X LTE Plus / DR970X LTE Plus II only	✔ Compatible
Tamper-Proof Case BTC 3A/ BTC 1C	Not recommended	✘ Not compatible
Tamper-Proof Case (TP-E)	✘ Not supported	✔ Elite only
B112 Battery	Supported	Supported but no parking mode
B-124X / B-130X battery	✔ Supported	✔ Supported
B-130A battery	✔ Supported	✔ Supported
Hard-wiring kits (CH 3P1/3P2)	✔ Supported	✔ Supported

Image: This image displays a compatibility table for BlackVue accessories, detailing which accessories are compatible with DR Series II (DRXXII / Plus II) and Elite 8 Series dash cams. It lists items like power cables, rear-camera coax cables, mounts, CPL filters, tamper-proof cases, and batteries, indicating compatibility with checkmarks or specific notes.

Accessory	DR Series II (DRXXII / Plus II)
Power cable (3-wire) (CL-3P1)	Compatible

Accessory	DR Series II (DRXXII / Plus II)
USB-C power cable (USBC-3P)	Compatible
OBD II Power Cable BOC 300	Compatible
Rear-camera coax cable (CC-6/1.5/T)	Compatible
Front-camera mount/bracket	Shared among DR770X/970X Plus
Rear Camera mount (RM75)	Compatible
CPL-2 filter (CPL-2)	DR970X LTE Plus / DR970X LTE Plus II only
Tamper-Proof Case BTC 3A/ BTC 1C	Not recommended
Tamper-Proof Case (TP-E)	Not supported
BT12 Battery	Supported
B-124X / B-130X battery	Supported
B-130A battery	Supported
Hard-wiring kits (CH 3P1/3P2)	Supported

9. SUPPORT & WARRANTY

For technical support, warranty information, or further assistance, please visit the official BlackVue website or contact BlackVue customer service. Keep your purchase receipt as proof of purchase for warranty claims.

BlackVue Website: www.blackvue.com