

VANTRUE N4 Pro

VANTRUE N4 Pro 4K UHD 3-Channel Dash Cam User Manual

Model: N4 Pro

1. PRODUCT OVERVIEW

The VANTRUE N4 Pro is an advanced 3-channel dash camera system designed to provide comprehensive surveillance for your vehicle. It features a 4K front camera, a 1080P interior camera, and a 1080P rear camera, all recording simultaneously. Equipped with the STARVIS 2 IMX678 sensor and PlatePix technology, it delivers exceptional video clarity day and night. Integrated WiFi, GPS, voice control, and multiple parking surveillance modes ensure a secure and convenient driving experience.



Image: Overview of the 3-camera recording angles (Front 158°, Interior 160°, Rear 165°).

Key Features:

- **4K UHD Front Camera:** Records in ultra-high definition (2160P) with the STARVIS 2 IMX678 sensor for superior image quality.
- **3-Channel Simultaneous Recording:** Captures front (4K), interior (1080P), and rear (1080P) views concurrently.
- **Super Night Vision & HDR:** Enhanced low-light performance and High Dynamic Range for clear recordings in various lighting conditions, including tunnels and at night.
- **PlatePix Technology:** Improves license plate recognition clarity, especially at high speeds.

- **Built-in 5.8GHz WiFi:** Allows seamless connection to the Vantrue app for live view, video download, and settings adjustment.
- **Built-in GPS:** Records driving speed, route, and location data.
- **Voice Control:** Hands-free operation for screen on/off, photo capture, and emergency recording.
- **24-Hour Parking Surveillance:** Multiple modes (motion detection, collision detection, timelapse, low bitrate) available with optional hardwire kit.
- **G-Sensor Emergency Recording:** Automatically locks footage upon impact to prevent overwriting.
- **Loop Recording:** Continuously records by overwriting the oldest files when the memory card is full.
- **Wide Temperature Tolerance:** Equipped with a supercapacitor for reliable operation in extreme temperatures.

2. SETUP GUIDE

2.1 Package Contents

- VANTRUE N4 Pro Dash Cam Unit
- Car Charger
- Spare Double-Sided Tape
- Trim Removal Tool
- Static Cling Stickers
- Cleaning Cloth
- Car Mount
- Quick Guide
- Charging Cable

2.2 Installation

1. **Prepare the Windshield:** Clean the area on your windshield where the dash cam will be mounted. Apply a static cling sticker to the desired location to protect your windshield and allow for easier removal.
2. **Mount the Front Camera:** Attach the front camera to the car mount. Secure the mount to the static cling sticker on your windshield using the adhesive. Ensure the camera has a clear view of the road and is not obstructing your driving view.
3. **Install Rear Camera:** Mount the rear camera on your rear window, ensuring a clear view. Connect the rear camera cable to the main unit. Route the cable neatly along the vehicle's headliner and A-pillars using the provided trim removal tool to tuck it away.
4. **Connect Power:** Plug the car charger into your vehicle's cigarette lighter socket. Connect the charging cable to the main dash cam unit. For optimal performance and to enable parking surveillance modes, a separate hardwire kit (ASIN: B0C2PTBNHH) is recommended.
5. **Insert MicroSD Card:** Insert a high-speed microSD card (Class 10 or higher, up to 1TB supported) into the designated slot on the dash cam.



Image: The VANTRUE N4 Pro dash cam mounted on a windshield, showing its compact design and screen.

2.3 Initial Setup & MicroSD Card Formatting

Upon first use or when using a new microSD card, it is essential to format the card within the dash cam. This ensures compatibility and optimal performance.

1. Power on the dash cam.
2. Navigate to the settings menu.
3. Select 'Format SD Card' and confirm.
4. The dash cam will restart after formatting.

3. OPERATING INSTRUCTIONS

3.1 Power On/Off and Recording

- The dash cam will automatically power on and begin recording when connected to your vehicle's power supply and the engine starts.
- It will automatically power off when the engine is turned off (unless hardwired for parking mode).

- To manually power on/off, press and hold the power button.

3.2 WiFi Connectivity and App Control

The N4 Pro features 5.8GHz WiFi for fast data transfer and control via the Vantrue smartphone app.

1. Download the 'Vantrue' app from your smartphone's app store.
2. On the dash cam, enable WiFi through the settings menu or voice command.
3. On your smartphone, connect to the dash cam's WiFi network (SSID and password displayed on the dash cam screen).
4. Open the Vantrue app to view live footage, browse recorded videos, download files, and adjust camera settings.



Image: Illustration of the dash cam's 5.8GHz WiFi for fast app connectivity and built-in GPS for tracking speed and route.

3.3 Voice Control

Control essential functions hands-free using voice commands.

- Say "Screen On" or "Screen Off" to toggle the display.
- Say "Take Photo" to capture a still image.
- Say "Lock Video" to save the current recording as an emergency file.



Image: Depicts the G-sensor emergency recording feature and voice control for hands-free operation.

3.4 Parking Surveillance Modes

The N4 Pro offers four parking surveillance modes to protect your vehicle when parked. These modes require a continuous power supply via a hardwire kit (sold separately, ASIN: B0C2PTBNHH).

- **Motion Detection:** Records when motion is detected around the vehicle. Features a 10-second pre-record function to capture events leading up to detection.
- **Collision Detection:** Records when an impact is detected by the G-sensor.
- **Timelapse Recording:** Records continuously at a low frame rate, compressing hours of footage into minutes.
- **Low Bitrate Recording:** Records continuously at a lower bitrate to save storage space while

maintaining essential details.



Image: Visual representation of the four parking surveillance modes: Motion Detection with 10-second pre-record, Impact Detection, Timelapse Recording, and Low Bitrate Recording.

3.5 CPL Filter and Remote Control (Optional Accessories)

Enhance your recording experience with optional accessories:

- **CPL Filter (ASIN: B0B2V8YK63):** Reduces glare and reflections from the windshield and dashboard, improving front camera video clarity.
- **Remote Control (ASIN: B0C7BWVQ2B):** Allows one-touch control for audio on/off, snapshot, and video lock while driving.



Image: Shows the optional remote control for quick actions and the CPL filter to reduce glare on recordings.

4. MAINTENANCE

4.1 MicroSD Card Maintenance

Regular formatting of the microSD card (at least once a month) is recommended to prevent data corruption and ensure smooth recording. Always format the card using the dash cam's menu.

4.2 Firmware Updates

The N4 Pro supports OTA (Over-The-Air) firmware updates via the Vantrue app. Regularly check for and install updates to ensure optimal performance and access to new features.

4.3 Cleaning

Use the provided cleaning cloth to gently wipe the camera lenses and screen. Avoid using abrasive cleaners or solvents that could damage the device.

5. TROUBLESHOOTING

- **Dash cam not powering on:** Ensure the power cable is securely connected to both the dash cam and the car's power outlet. Check if the car charger is working.

- **"SD Card Error" or recording issues:** Format the microSD card within the dash cam. Ensure you are using a high-speed (Class 10 or U3) microSD card from a reputable brand. Replace the card if the issue persists.
- **WiFi connection issues:** Ensure WiFi is enabled on the dash cam and your smartphone. Try restarting both devices. Verify the correct WiFi password.
- **Blurred or unclear images:** Clean the camera lenses. Ensure the protective film has been removed from the lenses. Adjust the camera angle. Consider using an optional CPL filter to reduce glare.
- **Parking mode not working:** Ensure the dash cam is connected to a continuous power supply via a hardwire kit. Check parking mode settings in the menu.
- **GPS not recording speed/location:** Ensure the GPS module is properly connected and has a clear view of the sky. It may take a few minutes to acquire a signal.

6. SPECIFICATIONS

Feature	Specification
Brand	VANTRUE
Model Name	N4 Pro
Video Capture Resolution	Front: 4K (2160p), Interior: 1080P, Rear: 1080P
Field of View	Front: 155°, Interior: 165°, Rear: 160° (Total 360° coverage)
Connectivity Technology	Wi-Fi (5.8GHz)
Special Features	Built-in GPS, G-Sensor, Super Night Vision (STARVIS 2 IMX678), HDR, PlatePix Technology, 24-hour Parking Surveillance, Voice Control, App Control, Loop Recording, Infrared Night Vision, LED Traffic Light Compatible
Display Type	LCD
Screen Size	3.19 inches
Maximum Aperture	F1.8
Supported Standards	MP4
Compatible Devices	Smartphones, Tablets, Laptops, PCs
Item Dimensions (D x W x H)	5.9 x 12.4 x 4.4 cm

Item Weight	900 grams
UPC	193368004299

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The VANTRUE N4 Pro comes with a standard 12-month warranty. You can extend the warranty period to 18 months by registering your product on the official VANTRUE website.

7.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please visit the official VANTRUE support website or contact their customer service team. Refer to the quick guide or product packaging for specific contact details.