Powerology

Sentra
Dash Camera with 3 Lenses
& Rear Camera

SKU: PWCAM108BK

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Product Overview

The Powerology Sentra Dash Camera features three lenses and a rear camera for full coverage of your surroundings. With a 140° wide view and light-sensitive lens, it adjusts to ensure optimal visibility. The camera includes built-in audio recording, collision detection, and infrared night vision for clear footage in low-light conditions. The 3-axis G-sensor chip provides reliable impact detection, while expandable storage allows for continuous recording. Easy-to-use app control and ports for USB-C and AV connections make this dash cam a practical solution for safer driving.

Specifications

Display	3" IPS
Total Lenses	4
Processor	Allwinner 553
RAM	1GB DDR3
Operating System	Linux
Front Lens View	140°
In-Car Lens Angle	360°
Front Sensor	4653 , 1/3 CMOS
Image Resolution	2MP
Front Lens Model	TRC20503 (2G4P)
Rear Lens Model	9023 (2G2P)
In-Car Lens Model	2083 (2G2P)
Adapter Input	5V/3A
Video Resolution	2K

Video Frame Rate	25fps
Photo File Format	JPG
Video File Format	TS
TF Card Slot	Up to 128GB (Not Included)
Charging Interface	USB-C
Product Material	ABS
Product Weight	140g (Front Camera), 125g (Rear Camera)
Product Size	44.5 x 88.28 x 95.45mm
Model Number	PWCAM108

Installation Guidelines

1. Install the product near the rearview mirror to ensure optimal field of view.
2. Position the lens within the range of the windshield wipers to maintain clear visibility during rainy conditions.
3. Avoid touching the lens with your fingers to prevent residue from oils, which can cause blurry recordings or photos.
4. Clean the lens regularly to maintain high image quality.

Precautions

1. Do not disassemble or modify the device yourself, as this may void the warranty.
2. For any power line modifications, engage professional technicians.
3. Avoid operating the product while driving to prevent distraction and potential safety hazards.

Disclaimer

The dash cam is designed to record video, audio, and related information while the vehicle is in operation. In case of an incident, the footage can serve as supplementary reference material. However, please note the following points to ensure proper use:

a. The device must be operating in normal recording mode to generate valid files.

b. Video files may become corrupted or lost under the following conditions:

1. Removing the TF card during recording can damage or delete the most recent file.

2. Cutting off power improperly during recording may cause corruption or loss of the last recorded video.

3. Files may be damaged or lost if the device experiences significant impact during recording, such as in severe collisions.

4. Excessive impact during recording that causes the memory card to become loose may result in file corruption or loss.

The audio and video recordings from the dash cam are for reference only. Our company is not responsible for any loss or damage caused by file corruption, data loss, or other issues resulting from improper use of the device.
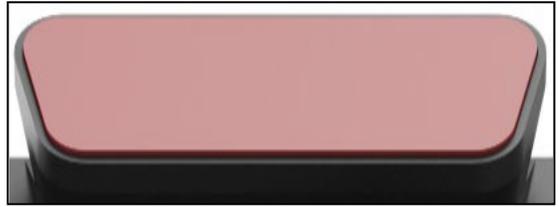
Package Contents
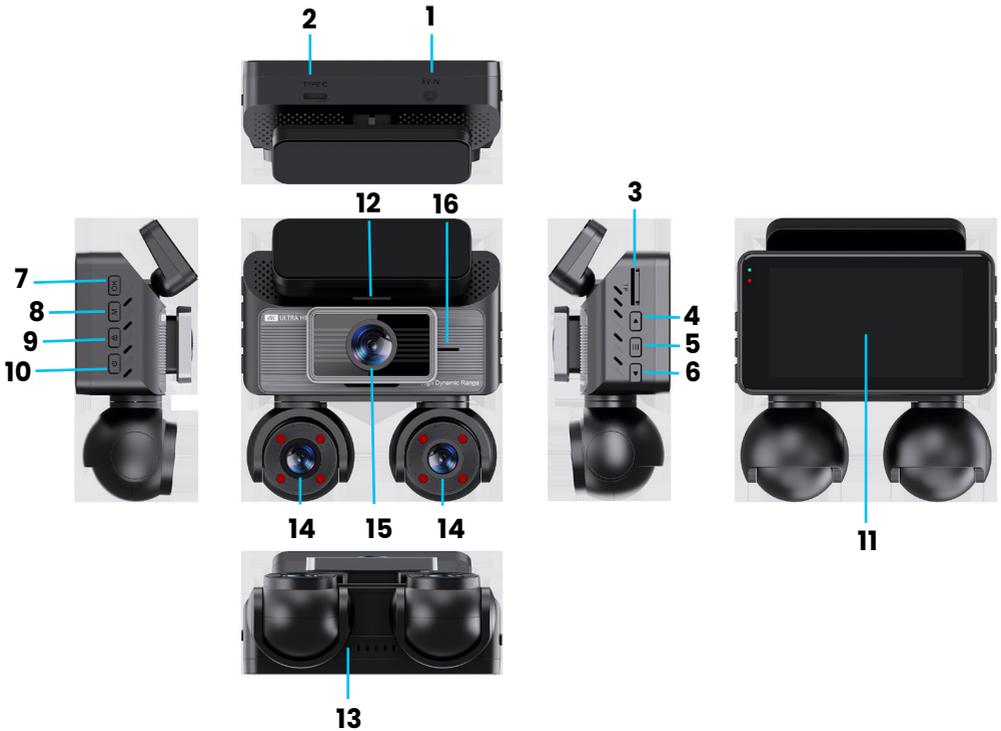

GPS (Optional configuration)

Car charger

Rearview camera
(Optional configuration)

Fixed bracket

Product Components & Functions

The following describes the buttons and interfaces of the product:

1. AV Interface: Rear recording lens interface.

2. Type-C Interface: 5V DC power supply interface.

3. TF Card Slot: TF memory card slot. Please install according to the correct prompt direction.

4. Up Key: In menu mode and file browsing mode, the Up button functions as the page-up key. In standby mode and recording mode, a short press switches the display screen.

5. Menu Key: In standby and recording modes, short press to directly enter the menu.

6. Down Key: In menu and file browsing modes, it functions as the page-down key. In standby and recording modes, short press the down key for one-click capture.

7. OK Key: In the recorder interface, short press to start/stop recording. In other setting interfaces, it is the confirmation key.

8. Mode Key: In standby mode, short press to switch between playback interface, long press to turn on/off Wi-Fi.

9. One Key Lock Key: In recording mode, short press to lock the video to protect from automatic cycling.

10. Power Key: Long press to turn on/off the device; short press in standby or recording mode to turn the screen backlight on/off.

11. Display Screen: 3-inch high-definition touch screen.

12. Support Slot: Installation bracket.

13. MIC: Audio recording.

14. Internal Camera: Infrared night vision lens.

15. Front Camera: Wide-angle lens.

16. Speaker Hole : Speaker installation location.

Touch Function Descriptions

1. Front Recording Display: Double-tap to switch between full-screen mode and return to the previous view.

2. Left Recording Display: Double-tap to switch between full-screen

mode and return to the previous view.

3. Pause/Recording: Tap to pause or start/resume video recording.

4. Lock Key: Tap to lock or unlock the current video clip with one click.

5. Playback: Tap to open the video playback page and view recorded videos.

6. Menu: Tap to enter the menu page.

7. Voice Control Command: Tap to view AI voice control commands (Chinese language only supported).

8. Right Recording Display: Double-tap to switch between full-screen mode and return to the previous view.

9. Rear Recording Display: Double-tap to switch between full-screen mode and return to the previous view.
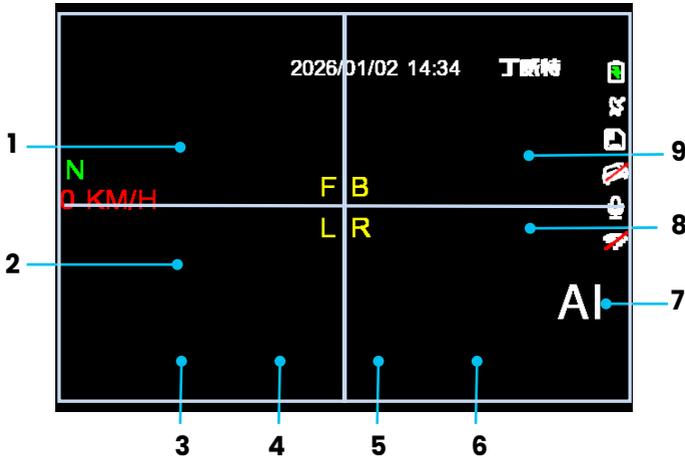
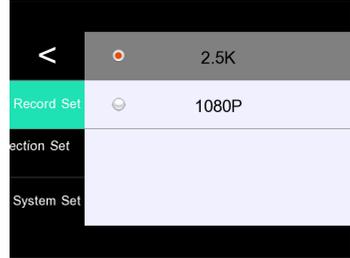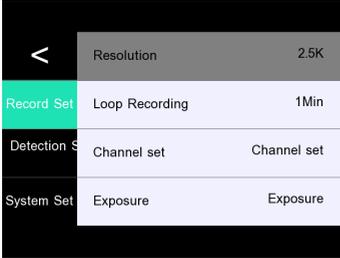# Playback Interface Descriptions

1. Front Video Switch Key: Tap to switch to the front video storage directory.

2. Rear Video Switch Key: Tap to switch to the rear video storage directory.

3. Left Video Switch Key: Tap to switch to the internal video storage directory.

4. Right Video Switch Key: Tap to switch to the internal video storage directory.

5. Loop Video Switch Key: Tap to switch between loop videos of the front, rear, left, and right cameras.

6. Photo Switch Key: Tap to switch between photos taken by the front, rear, left, and right cameras.

7. Locked Video Switch Key: Tap to switch between locked videos from the front, rear, left, and right cameras.

8. Surveillance Video Switch Key: Tap to switch between surveillance videos from the front, rear, left, and right cameras.

9. Full Screen/Half Screen Switch: Tap to switch to full-screen playback; tap again to switch to half-screen playback.

10. Delete: Tap to delete the current video.

11. Pause/Play: Tap to pause or play the current video.

12. Lock: Tap to lock the current video; the video will be automatically moved to the locked directory.

13. Back: Tap to return to the recorder interface.

14. Video Playlist: Tap to play the corresponding video; swipe up or down to turn pages.

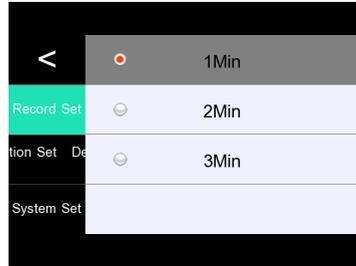**15.** Scroll Up and Down: Tap to scroll through the video list.
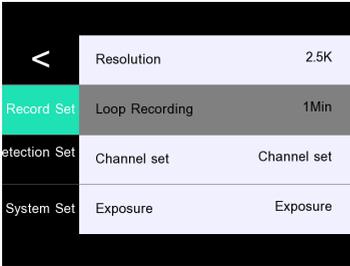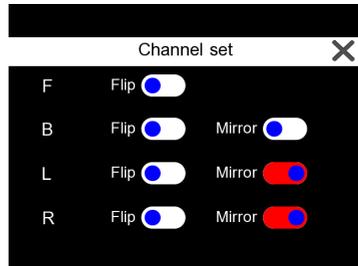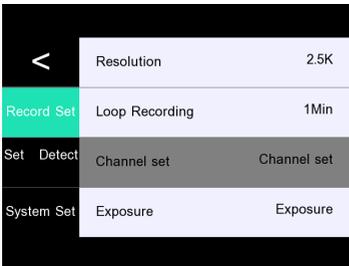

Scroll up and down
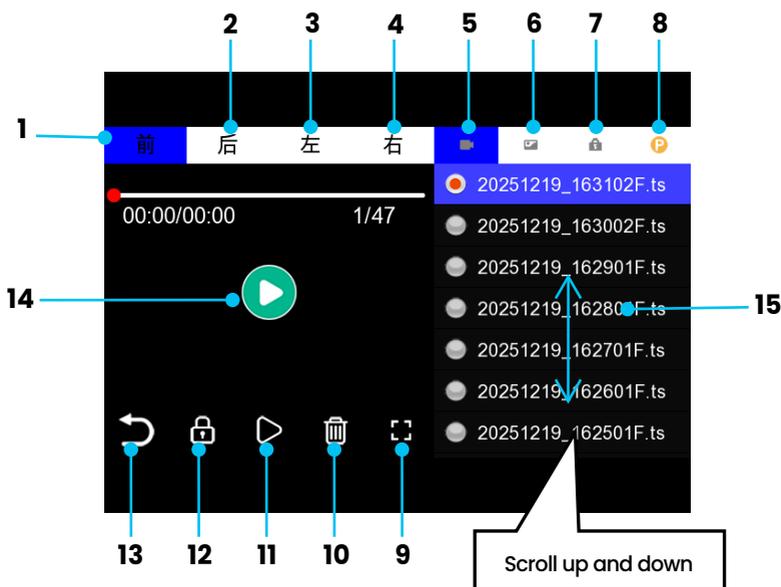
Recording Settings

1. Recording Resolution: Set the recording resolution for the front camera. The default setting is 1440P. You can select the resolution from the available options, such as 2.5K or 1080P.

<	Resolution	2.5K
Record Set	Loop Recording	1Min
Detection S	Channel set	Channel set
System Set	Exposure	Exposure

<	●	2.5K
Record Set	◎	1080P
ection Set		
System Set		

2. Loop Recording: Set the loop recording duration with options for 1 minute, 2 minutes, or 3 minutes. If set to 1 minute, a new video segment will be saved every minute. The default duration is 1 minute.

<	Resolution	2.5K
Record Set	Loop Recording	1Min
etection Set	Channel set	Channel set
System Set	Exposure	Exposure

<	●	1Min
Record Set	◎	2Min
tion Set De	◎	3Min
System Set		

3. Channel Settings: Allows you to set flip or mirror display for the front, rear, left, and right lenses.

<	Resolution	2.5K
Record Set	Loop Recording	1Min
Set Detect	Channel set	Channel set
System Set	Exposure	Exposure

Channel set ✕

F	Flip ⬤		
B	Flip ⬤	Mirror ⬤	
L	Flip ⬤	Mirror ⬤	
R	Flip ⬤	Mirror ⬤	

4. Exposure Settings: Allows setting the exposure value for the front lens. Available options are -3 ,-2 ,-1 ,0 ,1 ,2 ,3, with the default setting being 0.
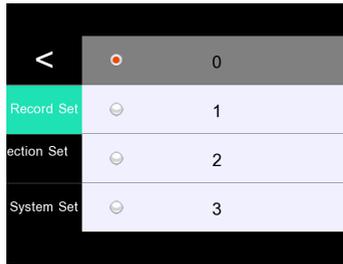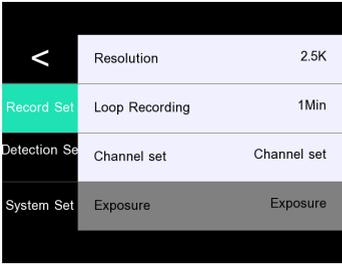
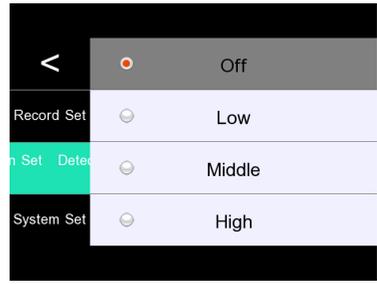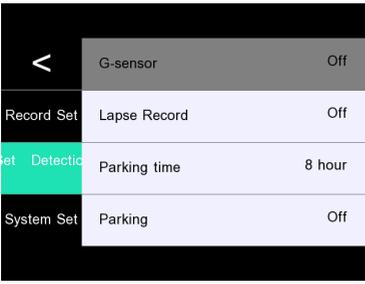**5.** Audio Recording Settings: Set to enable or disable audio recording; the default setting is enabled.
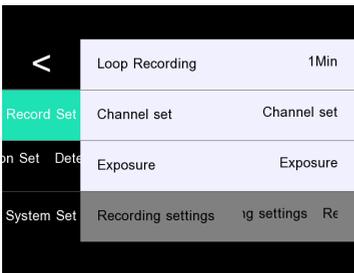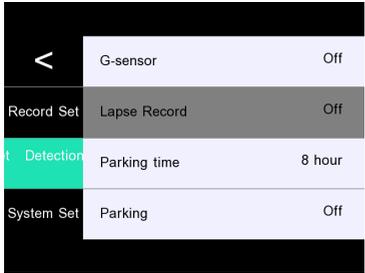

Detection Settings

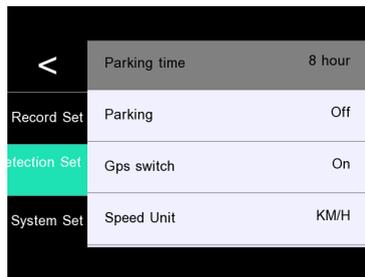**1.** Collision Sensitivity: Set the collision detection sensitivity with options for Low, Medium, High, or Off; the default setting is Off. The device includes a built-in three-axis G-sensor chip. In the event of a traffic accident, the device can automatically lock and protect the currently recorded video, providing strong evidence for accident investigation and evidence collection.

<	G-sensor	Off		**<**	● Off
Record Set	Lapse Record	Off		Record Set	○ Low
et Detectio	Parking time	8 hour		n Set Dete	○ Middle
System Set	Parking	Off		System Set	○ High

2. Timelapse Recording: This option allows you to set the timelapse recording function. You can choose from 1 frame per second, 2 frames per second, 5 frames per second, or turn it off. The default setting is off. Please note that the original power cable with the ACC function must be used.
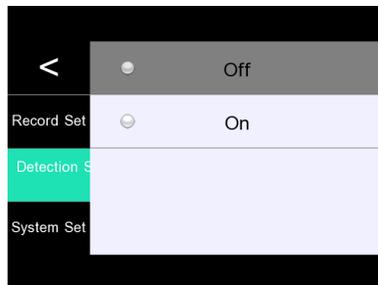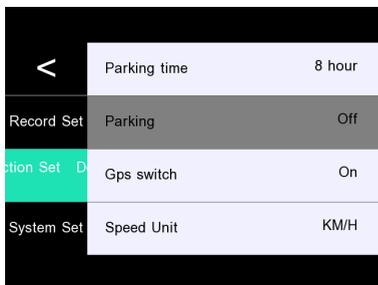
<	G-sensor	Off		**<**	● Off
Record Set	Lapse Record	Off		Record Set	○ 5FPS
t Detection	Parking time	8 hour		ction Set D	○ 2FPS
System Set	Parking	Off		System Set	○ 1FPS

3. Timelapse Recording Duration: This setting lets you choose the duration for timelapse recording. Options include 8 hours, 12 hours, 24 hours, 48 hours, or Never Off. The default setting is 8 hours.
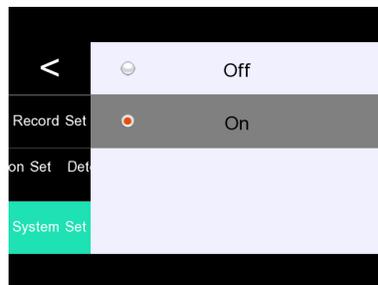
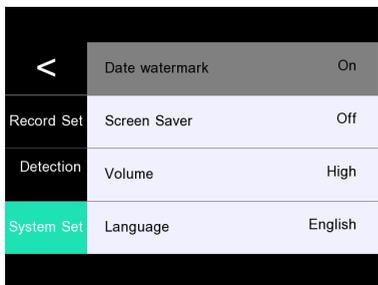|		
<	Parking time	8 hour
Record Set	Parking	Off
etection Set	Gps switch	On
System Set	Speed Unit	KM/H

4. Parking Monitoring: This setting allows you to turn parking monitoring on or off. The default setting is off. When enabled, the parking monitoring feature will automatically power on and record if

the vehicle is subjected to an impact, capturing the incident to protect your car.
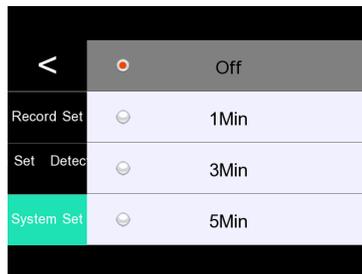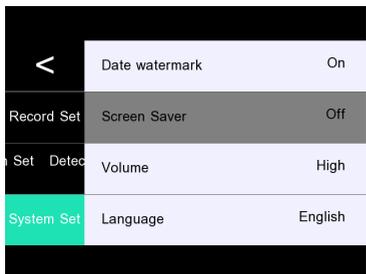
<	Parking time	8 hour
Record Set	Parking	Off
ction Set D	Gps switch	On
System Set	Speed Unit	KM/H

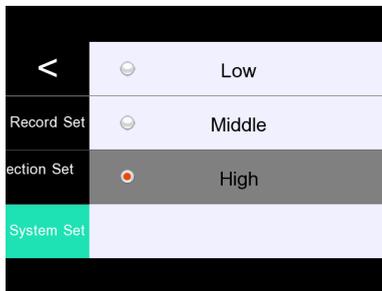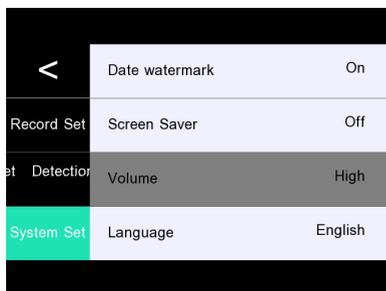| <	⊙	Off
Record Set	⊙	On
Detection S		
System Set		

▌ System Settings

1. Time Watermark: This setting allows you to enable or disable the display of a time watermark on the recorded footage. The default setting is on. When enabled, the date and time will appear as a watermark on the video.

<	Date watermark	On
Record Set	Screen Saver	Off
Detection	Volume	High
System Set	Language	English

<	⊙	Off
Record Set	●	On
on Set Det		
System Set		

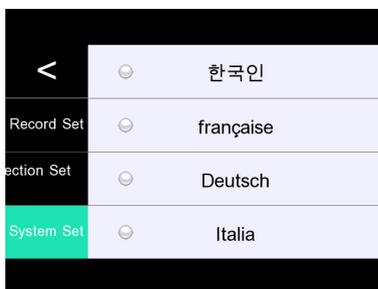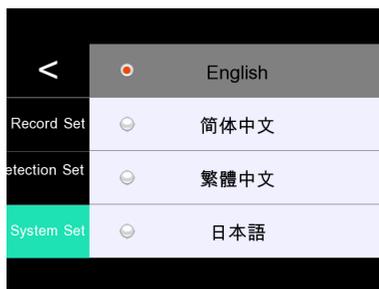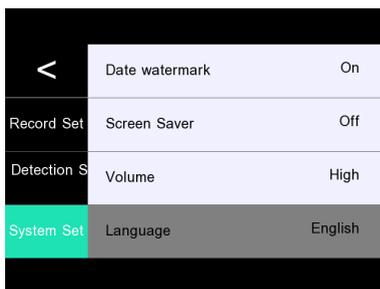**2.** Screen Saver: This setting allows you to set the automatic screen saver activation time. Options include Off, 1 minute, 3 minutes, or 5 minutes. The default setting is Off.

<	Date watermark	On
Record Set	Screen Saver	Off
n Set Detec	Volume	High
System Set	Language	English

| <	●	Off
Record Set	⊙	1Min
Set Detec	⊙	3Min
System Set	⊙	5Min

3. Volume: This setting lets you adjust the sound level. Options include Low, Medium, or High, with the default set to High.

<	Date watermark	On
Record Set	Screen Saver	Off
et Detection	Volume	High
System Set	Language	English

| <	◎	Low
Record Set	◎	Middle
ection Set	●	High
System Set		

4. Language: The device supports 23 languages, including English, Simplified Chinese, Traditional Chinese, Japanese, Korean, French, German, Russian, and more. The default language is Simplified Chinese.

<	Date watermark	On
Record Set	Screen Saver	Off
Detection S	Volume	High
System Set	Language	English

<	●	English
Record Set	◎	简体中文
etection Set	◎	繁體中文
System Set	◎	日本語

<	◎	한국인
Record Set	◎	française
ection Set	◎	Deutsch
System Set	◎	Italia

5. Time Settings: Set the year, month, day, time, time zone, and 12/24-hour format. Use the up/down arrows to adjust the date and time to the current real-time, and the device will auto-save the settings. If the device is equipped with a GPS module, the time will be automatically calibrated.
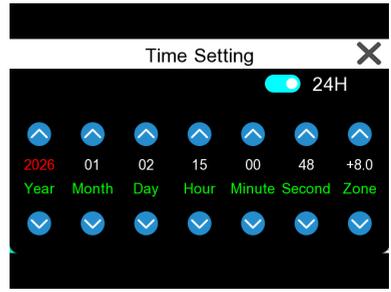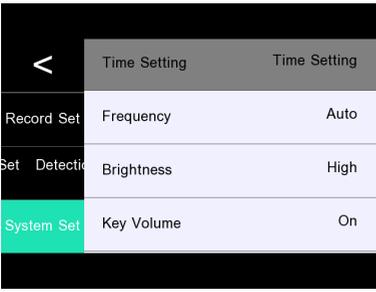
6. Light Frequency: Set the light frequency with options for Auto, 50Hz, or 60Hz. The default setting is Auto.
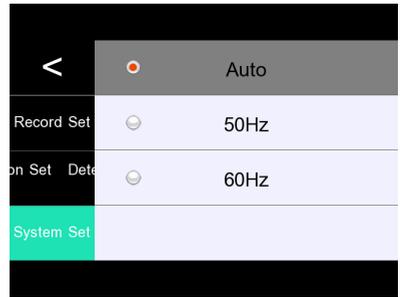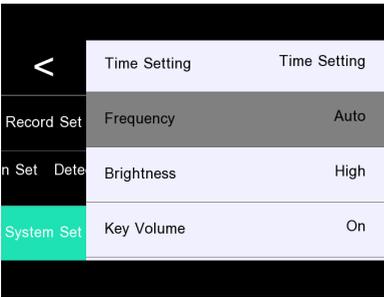
7. Screen Brightness: Adjust the screen brightness with options for Low, Medium, or High. The default setting is High.
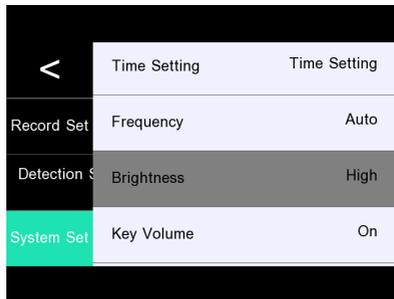
8. Key Sound: This option allows you to enable or disable the touch key sound. The default setting is On.

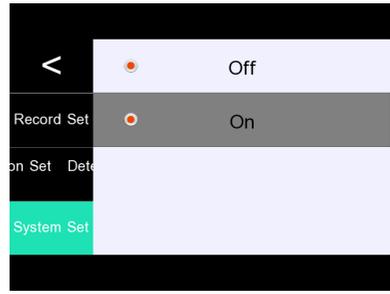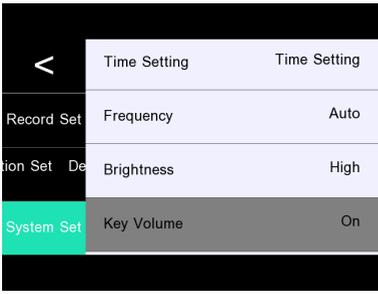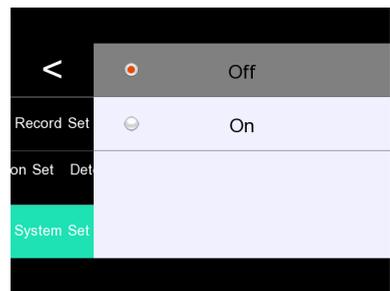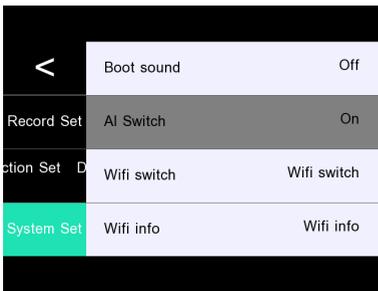|					
<	Time Setting	Time Setting		<	⦿ Off
Record Set	Frequency	Auto		Record Set	⦿ On
tion Set De	Brightness	High		on Set Det	
System Set	Key Volume	On		System Set	

9. Startup/Shutdown Sound Effect: This option allows you to enable or disable the startup and shutdown sound. The default setting is Off.

<	Boot sound	Off		<	⦿ Off
Record Set	AI Switch	On		Record Set	◯ On
ction Set D	Wifi switch	Wifi switch		on Set Det	
System Set	Wifi info	Wifi info		System Set	

10. AI Switch: This setting allows you to enable or disable the AI voice control. The default setting is On. When enabled, the AI can respond to commands such as turning on/off the screen, taking photos, showing different camera views, and starting or stopping audio recording. (Commands are in Standard Mandarin with moderate speaking speed.)

<	Boot sound	Off		<	⦿ Off
Record Set	AI Switch	On		Record Set	⦿ On
ction Set D	Wifi switch	Wifi switch		on Set Det	
System Set	Wifi info	Wifi info		System Set	
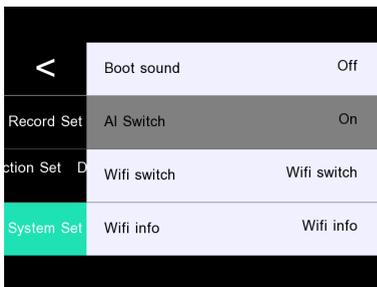
11. WiFi Switch: This option allows you to enable or disable WiFi. The default setting is Off. You can quickly toggle WiFi on or off by long pressing the M button.

<	Boot sound	Off
Record Set	AI Switch	On
on Set Dete	Wifi switch	Wifi switch
System Set	Wifi info	Wifi info

<	●	Off
Record Set	○	On
tion Set De		
System Set		
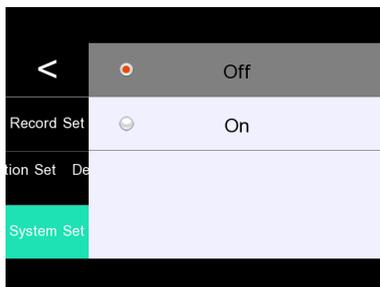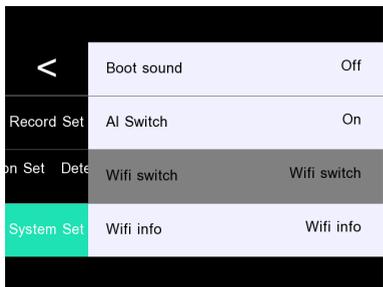
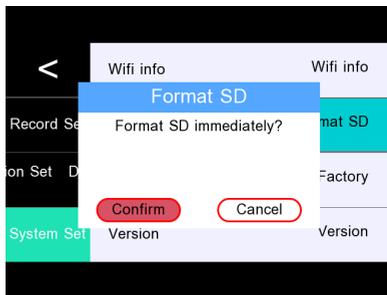**12.** WiFi Information: View the WiFi information, including the WiFi name (e.g., DVT-XXXX) and password (e.g., 12345678). A QR code is also displayed for easy connection.

<	Boot sound	Off
Record Set	AI Switch	On
ction Set D	Wifi switch	Wifi switch
System Set	Wifi info	Wifi info

Wifi info ✕
SSID: DVT-445e1195
PWD:12345678
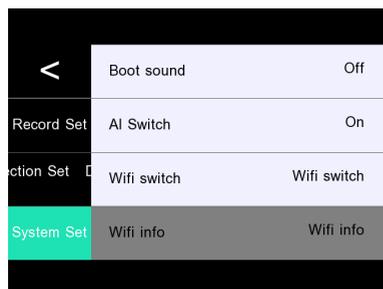
13. Format Memory Card: This option allows you to format the memory card and erase all data. Note: Before formatting, please ensure that any videos you wish to keep are saved, as formatting will permanently delete all data.

<	Wifi info	Wifi info
Record Set	Format SD	Format SD
Detection Se	Reset Factory	Reset Factory
System Set	Version	Version

<	Wifi info	Wifi info
Record Se	**Format SD**	mat SD
ion Set D	Format SD immediately?	
System Set	Confirm Cancel	
	Version	Version
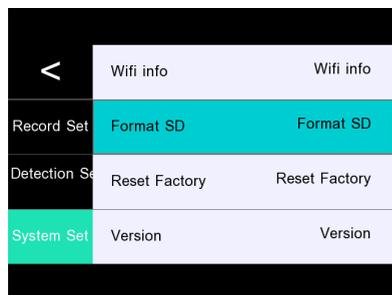
14. Restore Factory Settings: This option allows you to reset all parameters to their factory default values. Please confirm before resetting, as this will erase any custom settings.
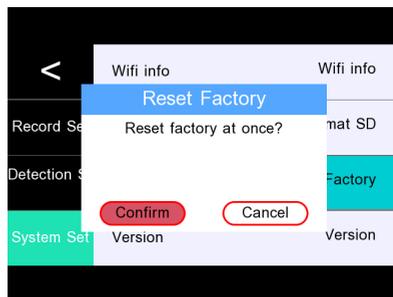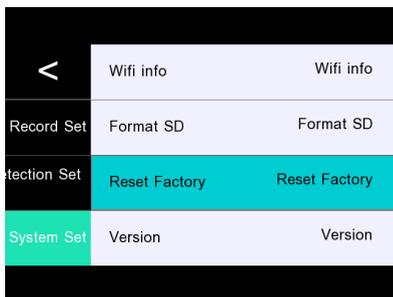
15. About: This section displays the device's software version information.
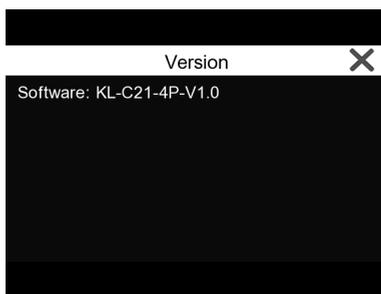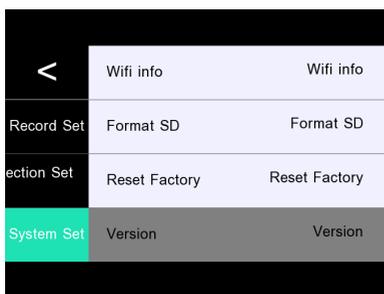
WiFi Connection & App Setup

1. WiFi Connection
1.1. In standby or recording mode, long-press the M button to turn WiFi on or off. Alternatively, enter the menu and tap "WiFi Switch" to enable or disable WiFi.
1.2. Open "WiFi Information" to scan the QR code and view the WiFi details (WiFi Name: DVT-XXXX, WiFi Password: 12345678).
1.3. Scan the QR code with your mobile phone to download the app (or search for "ELookPro" in the app store or Google Play).

2. App Download

Scan the QR code to download the app on your mobile device.

3. Connection Method (Example for HarmonyOS)

3.1. Open the app and click "Connect Device."

3.2. Click "Set WiFi" to connect to the device's WiFi.

3.3. Enter the recording interface, and use the app to pause or view the recording.

3.4. Click to switch lenses, enter the interface, pause the video, or view the footage.

GPS Instructions

1. GPS Function

Vehicle Speed Error Adjustment: Supported

Satellite Information: Supported

APP Track Playback: Supported

2. GPS Interface

2.1. After the GPS module is positioned, the icon will change from white to green.

2.2. Signal strength above 43dB indicates the strongest signal. If necessary, adjust the GPS module's installation position.

3. Abnormal GPS Connection

GPS connection may be blocked or abnormal in certain situations, such as:

a. In basements or tunnels

b. Under overpasses or bridge piers

c. Surrounded by forests with many sky obstructions

d. Surrounded by high-rise buildings

Setup Instructions

1. Insert the Memory Card: When the device is powered off, insert the TF card according to the notch direction on the device until it clicks into place. Ensure the memory card is a high-speed card (Class 10 or above U3) for optimal performance.

Note: A new memory card must be formatted and matched in the device before its first use.

2. Remove the Memory Card: With the device powered off, press the memory card to eject it from the slot.

Note: Do not remove or insert the memory card while the device is powered on to avoid damaging the memory card or losing files.

3. Install on the Interior Front Windshield:

Remove the 3M adhesive backing from the device's bracket or attach the optional suction cup, then secure it to the front windshield.

4. Dashcam Installation: Connect the Power Supply:

Use the original charger included in the package to start the device and charge the built-in battery. Connect one end of the car charger to the device's USB port and plug the other end into the cigarette lighter port inside the car. Once the car engine is started, the device will automatically power on.

Note: When routing the wire, hide the extension cable of the car charger along the vehicle's interior.

File Locking

1. Manual One-Click Lock File Function
In video recording mode, pressing the lock button will instantly lock the current file. Once locked, the file cannot be overwritten or deleted.
Note: When deleting files from the dashcam, formatting the memory card will erase all files, including the locked ones.
2. Auto-Lock Document (Gravity Sensing Disabled by Default)
The device has a built-in three-axis gravity sensor. When the vehicle is involved in an accident, the machine can automatically lock the current video recording, helping to provide strong evidence for accident investigation and evidence collection.
Reminder: The video lock duration is determined by the recording time set in the device settings. The available options are 1 minute, 2 minutes, or 3 minutes. For instance, a 1-minute recording will lock the video for 1 minute. Locked videos cannot be overwritten. If too many videos are locked, you may need to manually delete or format the memory card to ensure enough space for continuous recording.

AVin Input Function

The device supports AVin video input. When used with a pull-back lens, it enables picture-in-picture display, automatically switching to the reverse lens footage and showing it in full screen during reverse driving.
Reminder: To use the rearview camera's reverse trigger line, connect the red wire to the positive terminal of the reverse light.

Special Features

1. Rearview Camera (for Reversing)

Ensure the car charger is connected to the dashcam, and connect the red wire from the rearview camera to the positive terminal of the reverse light. Once the vehicle is started, the device will automatically enter recording mode. When the reverse gear is engaged, the reverse image will be displayed. After reversing, the device will return to recording mode.

Note: This function may not be compatible with certain vehicle models where the reverse control line is negative-polarity.

2. Reset

If the device experiences abnormal behavior or freezes, you can reset the system by pressing the RESET button with a small needle-like object through the small hole on the casing.

Troubleshooting

If the product malfunctions during normal use, please try the following solutions:

1. Unable to Power On

a. Check if the wiring is installed correctly.

b. Remove the memory card and restart the device.

2. Recording Stops Automatically or Does Not Loop

The memory card may not have a fast enough read/write speed to handle high-definition video. Please use a high-speed TF card, such as Class 10 (C10) or higher.

3. Recorded Videos Are Unclear

Check if the lens is dirty or has fingerprints. Clean the lens surface before recording to ensure clear footage.

4. Recorded Video Quality Is Inconsistent

Video quality depends on lighting conditions during recording. Factors like backlighting, front lighting, and light intensity can affect video quality.

5. Striped Interference in the Image

This issue is caused by an incorrect "light frequency" setting under fluorescent lighting. The standard frequency in China is "50 Hz." Adjust the setting accordingly

▌ Disposal

This product must not be disposed of as unsorted household waste. It is important to separate such waste for proper treatment and recycling, in compliance with local waste management regulations.

▌ Warranty

Products that you buy directly from our **Powerology** website or shop come with a 12-month warranty.

The 12-month warranty applies to products purchased directly from our **Powerology** website or store. If **Powerology** products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website **https://www.powerology.me/warranty** and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 12-month warranty period.

For more info, please check:
https://www.powerology.me/warranty

▌ Contact Us

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Website: **https://www.powerology.me/**
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