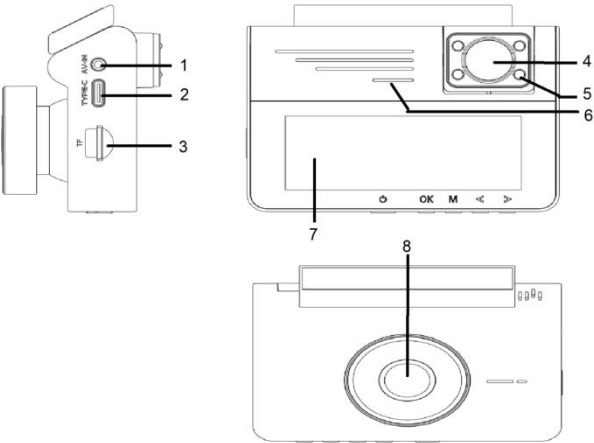


USER MANUAL



Product Overview:

This product uses high performance chips to provide high definition video and seamless dynamic lens. Please read this manual carefully before using it and keep it for future reference. We hope this product can meet your needs and provide you with lasting service.



1. Rear camera port 2. Power port 3.TF card slot 4. Interior camera 5. Infrared light 6. Indicator light 7. Screen 8. Front camera
1.
- Rear camera port 2. Power port 3.TF card slot 4. Interior camera 5. Infrared light 6. Indicator light 7. Screen 8. Front camera

Product Parameter：

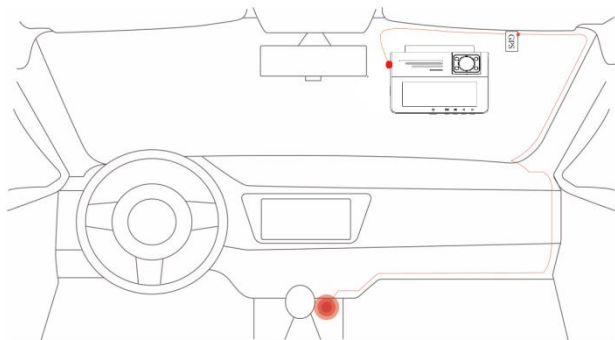
Product Features	HD camera, HD video
G-sensor	Built-in (automatically saved in case of unexpected vehicle loss)
LCD screen size	3.16 inch
camera lens	wide-angle lens
Language	Supports multiple languages
file format	TS
Video resolution	4K\2.5K\1080P

Video encoding format	H.264
Turn on and off the car	Supports car ignition and delayed shutdown
Month Day Year	support
memory card	TF (Supports up to 256GB)
Photo Mode	8 million
Photo format	JPEG
microphone	support
WIFI function	Supports mobile connection
Rear camera	support
GPS	Support (optional)
Power interface	5V/2A

Installation Guide:

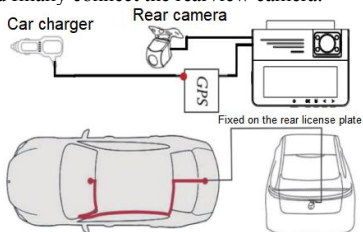
After checking that the package is correct, remove all accessories from the package and prepare for installation.

1. Turn off the car engine.
2. Align the 3M adhesive bracket with the body bracket interface, then push it in to the left until fully installed.
3. Insert the TF card into the recorder's card slot. [Note] Use a high-speed TF card (U3 or higher).
[Note] To prevent crashes or screen flickering during recording caused by abnormal files or viruses on the TF card, format the TF card with this device before first use.
4. Before installing the recorder, power on the device and observe the screen to simulate the driving situation. Determine the best installation position and clean the glass with water or alcohol.
5. Next, remove the protective film from the 3M bracket, secure the dashcam to the front windshield, and adjust it to the desired tilt angle.
6. Insert the car charger into the cigarette lighter. Connect the charging extension cable to the GPS via its Type-C port, then link it to the device. Peel off the 3M tape from the GPS and apply it to the windshield. [Note] When wiring, run the charging cable along the windshield edge as shown in the figure below.



7. How to install a rearview camera:

The rearview camera is waterproof. It is recommended to install it in the rear of the vehicle. Pay attention to the direction when installing. Insert the camera cable into the cable connector, pass it through the gap in the roof, connect it to the mounting position of the rearview camera, and finally connect the rearview camera.

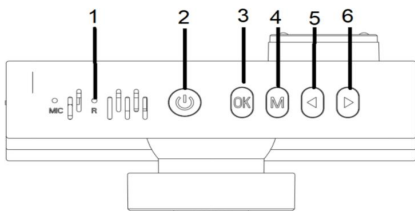


8. Adjust the lens position to ensure it is level with the ground.

9. Start the engine and check that the machine is installed correctly.

[Note] When the machine is installed correctly, it will enter the recording state after startup. Check whether the display screen is normal.

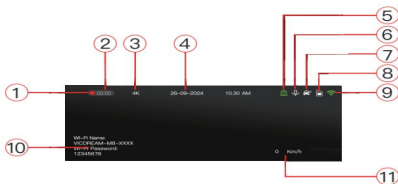
Button function description:



1. Reset button: The hole for the crash reset button.
2. Power button: Press and hold to turn the power on/off.
3. OK: Press and hold this key to start/stop recording and confirm items in other interfaces.
4. Menu key: Press this key briefly to enter the main interface. Press this key briefly while recording to lock the current video.
5. Up key: Short press this key on the preview interface to switch to front, inner, or rear recording of videos and pictures. Press this key in the menu and preview interface to move the interface upward. You can turn on or off the recording function while recording.
6. Down key: In recording mode, it captures a frame with one click. In the preview interface, a short press switches the camera view. In the menu and playback interface, pressing this key moves the interface downward.

Preview interface introduction:

The dashcam enters this interface by default and starts recording when the car starts



1. Recording status icon: blinking indicates normal recording, hidden when not recording
2. Recording duration: Displays the recording duration during normal recording. The default is 1 minute. You can adjust it by selecting loop recording in the settings interface. It is hidden when not recording.

3. Resolution: 4K

4. System Time: Displays the current RTC time, which can be set in the settings menu.

5. GPS icon: A red GPS icon appears when inserting the GPS module. If not connected, the icon will turn off. Once GPS signal is received, the icon will turn green.

6. Recording: Show recording status

7. Gravity sensor status: indicates whether the gravity sensor is off or on

8. TF card status: Check if the card is present or absent, and verify its identification.

9. WiFi icon: 

When Wi-Fi is on, a white Wi-Fi icon appears on the screen. You can turn Wi-Fi on or off in Settings. If you are connected to a mobile app, the icon turns green.

10. WiFi Name and password:

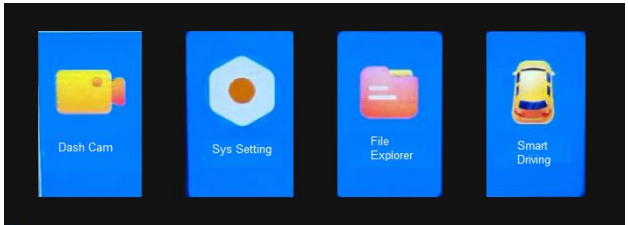
SSID is the Wi-Fi name.

PSD stands for Wi-Fi password.

11. GPS Speed:

When GPS receives a signal, the icon turns green and shows GPS speed in km/h and mph. Note the difference between units.

Home screen introduction:



In the preview interface, press and hold the menu key to enter the main interface, which includes: dashcam, system settings, file management. Smart driving

System Settings Overview:

From the preview home screen, press and hold the menu key to access system settings.

1. Video resolution:

Change the video resolution. The available options are 4K, 2.5K and 1080P, which correspond to 3840x2160 and 2560 x1440 and 1920 x 1080 resolutions respectively. The default value is 4K.

2. Loop recording:

Enter the recording duration and file segment duration. Set the recording cycle to 1, 2, or 3 minutes, with 1 minute as the default. Note: When the SD card is full, the recorder will overwrite the earliest recorded video clips.

3. Frequency:

Set to 50Hz or 60Hz to suppress flicker caused by different lighting conditions. The default value is 50Hz.

4. Gravitational sensitivity:

Options: Off, Low, Medium, High. Default: Medium

5. Parking monitoring:

Options: Off, Low, Medium, High. Default is Off. When activated, if the car stalls and a collision occurs, the recorder will start and record a video, then turn off.

6. Time-lapse video:

Options: Off, 1FPS/S, 2FPS/S, 5FPS/S. "Off" means delayed recording is disabled. Other options indicate the recording speed. Note: Time-lapse recording and parking surveillance require a voltage-lowering line power connection.

7. Duration of time-lapse recording:

Options: 12 hours, 24 hours, 48 hours, 72 hours. This indicates the duration of delayed recording after the vehicle is turned off.

8. Recording:

Options: Off, On. When on, the environment sounds will be recorded with the video; otherwise, no sound will be recorded.

9. Video watermark:

Options: On, Off. When On, timestamps will be added to the recorded video. When Off, timestamps will not be displayed.

10.HDR :

Select: On or Off. Turn on for better exposure and a slightly darker overall image.

11. Preview with built-in camera:

Options: Keep original, view mirror, record mirror, mirror, flip up and down, flip up and down, and mirror left and right.

12. Internal record switch:

Option: Off, On.

13. Rear camera preview

Options: Keep original, view mirror, record mirror, mirror, flip top/bottom, flip top/bottom and mirror left/right.

14. Volume settings:

Options: 1, 2, 3, 4 (off, low, medium, high) to set the voice prompt volume

15. Button sound:

Option: Off, On

16. Summer Time:

Option: Off, On

17. Infrared fill light:

Options: Off, On, Auto.

18. Screen saver:

Options: Off, 1 minute, 3 minutes. When set to "Off", the screen stays on. Other options specify the time after the screen turns off.

19. Speed units:

The GPS speed is in km/h or mph.

20. Time zone selection:

Choose from 24 global time zones as needed

21. Language:

Set languages for different countries.

22. Satellite information:

Display current GPS signal strength

23. WiFi Band:

The advantage of supporting two frequency bands: 2.4G and 5.8G. 5.8G is faster download speed.

24. WiFi Information:

Turn Wi-Fi on and off manually.

25. Time Settings:

Set the recorder's system time manually

26. Disk formatting

Format the TF memory card. We recommend using standard formatting.

27. Version Information

Display the firmware version of the recorder.

28. Restore factory settings

A dialog box appears to confirm whether to restore factory settings.

Confirm to reset all features to the factory settings interface.

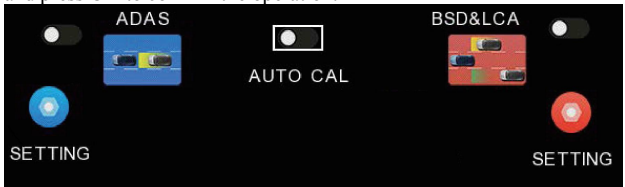
Playback file list:

On the home screen, press and hold the menu button to access the system interface. Select "File Management" to enter the playback interface. Use the arrow keys to choose different videos (front view, front view lock, front image, internal video, internal video lock, internal image, rear view, rear view lock, rear image).

After entering the interface, you can now play the corresponding videos and images. Use the left and right arrow keys to navigate to the previous or next file. Press and hold the menu key to return to the previous layer or exit playback.

Introduction to ADAS and BSD:

In the reading interface, press and hold the menu key to enter the main interface. In the main interface, select the "Intelligent Driving" icon to access the ADAS&BSD settings. Use the arrow keys to move the icon and press OK to confirm the operation.



pay attention to :

- 1) ADAS and BSD can only select one at a time
- 2) When this feature is enabled, the recording resolution will be reduced to 2K
- 3) This feature is auxiliary and not the basis for determining whether the product is working properly

ADAS;

ADAS uses front-facing camera images and specialized image recognition algorithms to detect various situations that may affect driving safety, such as collisions, lane departure, and pedestrians. It alerts the driver through voice and screen displays to pay attention to driving safety.

1. Automatic calibration: Automatic calibration based on actual images.
2. Manual ADAS calibration: Enter manual calibration mode to adjust the front view angle.
3. ADAS On/Off Switch: Note: Turning it on will reduce recording resolution to 2K.
4. ADAS sensitivity settings: (after entering options)
 - 4-1) Forward collision warning (off, low, medium (default), high); voice prompt: "Attention collision".
 - 4-2) Lane departure warning (off, low, medium (default), high); voice prompt: "Please do not cross the line".
 - 4-3) Pedestrian collision warning (off, low, medium (default), high); voice prompt: "Pedestrians, please pay attention".
 - 4-4) Forward vehicle start warning (off, low, medium (default), high); voice prompt: "The vehicle in front has started."
 - 4-5) Close-range warning (off, low, medium (default), high); voice prompt: "Keep your distance".
 - 4-6) Alarm sound (off, on); turning it off will disable the sound alarm.
 - 4-7) Display the alarm area and prompt box (on/off); disabling will disable

Red line: Horizon line - align where sky meets ground.
Green line: Central axis - align where road meets horizon.
Yellow line: Hood line - align where hood meets ground.



CALIBRATE ADAS

NEXT

BDS;

Using rear camera images and specialized image recognition algorithms, BSD detects vehicles and pedestrians in the left, center, and right directions that may affect driving safety, and reminds the driver to pay attention to driving safety through voice and screen display.

1. Manual calibration of BSD: Enter manual calibration mode to adjust the rearview mirror angle.

2. BSD On/Off Switch: Note: Turning this switch on will reduce recording resolution to 2K.

3. BSD sensitivity settings:

3-1) Alert sensitivity (low, medium, high)

3-2) Speed threshold (0, 30 km/h (default), 50 km/h, 80 km/h, 100 km/h); this feature is activated when the speed exceeds the specified value.

3-3) Alarm sound (on/off); turning it off will disable the sound alarm.

3-4) Show alarm area and color border (on/off); turning it off will disable the prompt box display.

The yellow boxes represent the lane warning areas on both sides of the rear view, and the adjustment of the red dots and box warning areas can be done using the buttons. The red BSD box cannot be adjusted by default.



CALIBRATE LCA

NEXT

Application installation and WiFi connection instructions:

1. From the preview home screen, press and hold the menu button to access system settings, select WiFi information, press and hold OK to confirm, then enter WiFi mode. The screen will display the WiFi QR code, name, and password.

2. Scan the QR code below with your phone to download and install the app. For Android devices, select 'Safe Download'; iOS devices will automatically redirect to the App Store.

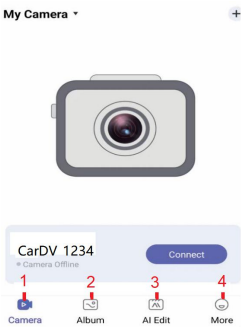


3. Add device

For iPhone: Connect to the system's WiFi, select the recorder CarDV_****, enter the default password 12345678 to connect, then open the 'Record Wind' app to complete the setup.

For Android devices: Launch the "Record Wind" app, tap "Add Recorder". Follow the on-screen wizard to access the system's WiFi interface. Select the recorder CarDV_**** and enter the default WiFi password 12345678. After successful connection, tap "Back" to complete the setup.

APP Introduction:



1. Recorder: This page manages recorders, allowing you to add, view, delete recorders, and access their video preview interface.

2. Album: Manage photos and videos downloaded from the recorder to the phone;

Play GPS trajectory map

(1) Download the video from the front road to the local album on the APP.

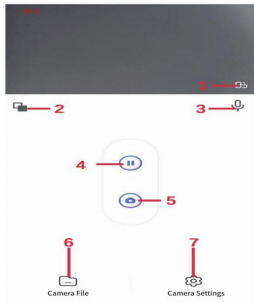
(2) Disconnect the recorder from the phone's WiFi and use the phone's data network

(3) In the local album section of the APP interface, tap the front road video to view GPS trajectory details and vehicle speed.

3. Smart Cut: Edit photos and videos.

4. More: APP language settings, problem feedback, About, and other information;

Description of recorder functions:



1. Full-screen display: Click to view the video in full-screen mode.

2. Scene switching: Click to switch between different scenes.

3. Microphone: Tap to turn the microphone on or off.

4. Video recording: Click to pause or resume. The video will be saved to the recorder after completion.

5. Take a photo: Click to take a photo, and the photo will be saved on the recorder after completion.

6. Recorder Files: Access the file list on the recorder by categorizing them into loop video, snapshot events, emergency events, parking surveillance, and local photo albums.

Download recorder files

Click "Record File" to access the file list. Select the desired image or video, then click "Download" to start the process. The file will be saved to your phone and can be viewed in the "Album".

Play the recorder file

Click "Record File" to access the file list interface. You can play the video directly without downloading, and take a photo of the current playback frame.

Download: Download the video to your phone;

Delete: Delete the selected file.

photo album

Go to "Album" to manage downloaded photos or videos. Click "All" to view the video list. Files are sorted by date. Click "Select" to choose multiple files for operations.

Video: All video files;

Photo: all photo files;

Urgent: collision sensing files;

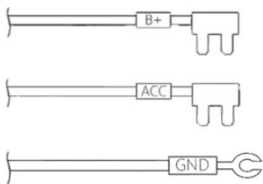
7. Recorder Settings: Access the recorder's settings interface to adjust microphone status, recording resolution, and video file duration.

Parking monitoring and time-limited recording (optional):



The hard-wired dash cam kit converts the vehicle's 12V-24V power supply to the dash cam's standard 5V requirement.

A hardwired kit is required when using parking monitoring and time-lapse video features to prevent car battery drain. (Not included, purchase separately) Features:



Low battery voltage protection

Increase input power

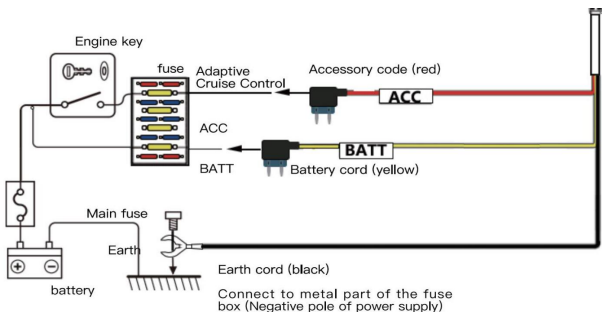
> Universal Compatibility

Understanding the hardwired harness kit: Warning: Incorrect connections may disable voltage protection and damage your vehicle. Please operate under the guidance of a professional. How to install the hardwired harness kit:

Red wire> ACC> Power only when the car key is open

Yellow wire> B+> always has power

Black wire> Grounding> Any grounding (negative) screw



Pop-up: The fuse box panel is usually located on the driver's side dashboard. If the fuse is small, you can cut the head of the wire and connect it directly to the fuse.

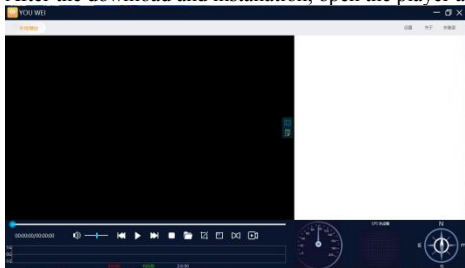
Download GPS Track Map Player:

1. PC version enters the website <http://www.sunningsoft.com/en/pcgps.html> Download;

Note: System requirements: 1. Windows 7/8/10 operating system, 64-bit or 32-bit (Windows XP is not supported).

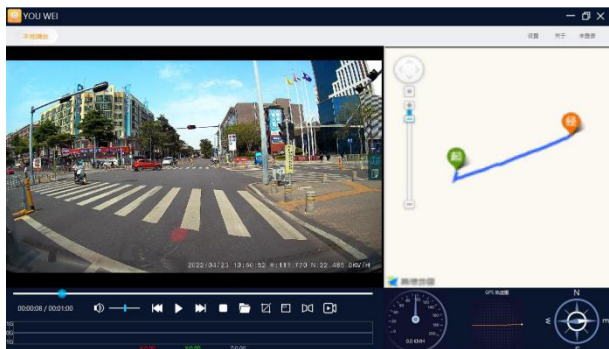
2. Search for GXplayer directly in the Mac OS Store to download and install.

After the download and installation, open the player and you



will see the following interface:

3. After installation, open the software and play the video file, or drag the file directly to the player bar. The GPS



ack will be displayed after playback.

Troubleshooting:

If the product has a problem under normal operation, refer to the following method to solve it:

Can't take photos or videos

Check if the TF card has enough space and is locked.

The recording will stop automatically

Because HD video data is huge, use a high-speed TF card compatible with SDHC. High-speed TF cards will have the U3 logo.

"Archive error" message appears when replaying images and videos

An error occurred while storing data on the TF card, resulting in incomplete files. Use the camera's "Format" function to reformat the TF card.

The resulting image is hazy

Check for dirt or fingerprints on the lens. Wipe the lens with lens paper before shooting.

The image contains horizontal stripe interference

This is caused by setting the wrong "source frequency". Set it to "50Hz" or "60Hz" according to the local power supply frequency.

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including

interference that may cause undesired operation.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device under Part 15 of the FCC Rules. These limits are designed to protect reasonably against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used by the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Suppose this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. In that case, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment to an outlet on a circuit different from the receivers.
- (4) Consult the dealer or an experienced radio/TV technician for help.

Radio Frequency Exposure Statement

The device has been evaluated to meet general RF exposure requirements. The device can be used in fixed/mobile exposure condition. The minimum separation distance is 20cm.