hp

f505g

Car Camcorder
User Manual

Contents

About this Guide

The content in this document is for information purpose and is subject to change without prior notice. We made every effort to ensure that this User Guide is accurate and complete.
However, no liability is assumed for any errors and omissions that may have occurred.
The manufacturer reserves the right to change the technical specifications without prior notice.

FCC Statement

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.
FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

WEEE Notice

Disposal of Waste Electrical and Electronic Equipment and/or Battery by users in private households in the European Union

This symbol on the product or on the packaging indicates that this cannot be disposed of as a household waste. You must dispose of your waste equipment and/or battery by handling it over to the applicable take-back scheme for the recycling of electrical and electronic equipment and/or battery. For more information about recycling of this equipment and/or battery, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

CE Regulatory Notice

The product herewith complies with the requirements of the Low Voltage Directive 2006/95/EC, the EMC Directive 2014/30/EU, the R&TTE Directive 1999/5/EC and the RoHS Directive 2011/65/EC.

Battery warning

❖ Never dismantle, crush, or pierce the battery, or allow the battery to short-circuit. Do not expose battery being placed in high temperature environment, if battery leaks or bulges, stop continue to use.

❖ Always charge using the system. Risk of explosion if battery is replaced by an incorrect type.

❖ Keep the battery out of reach of children.

❖ Batteries may explode if exposed to open fire. Never dispose of batteries in a fire.

❖ **Never replace the battery on your own; have the dealer do it for you.**

❖ Disposed of used batteries observing local regulations.

Notes on Installation

1. This product shall be installed near the rear view-mirror, at the center of windshield, if possible, for optimal viewing.

2. Make sure that the lens is within the wiping range of the windscreen wiper to ensure a clear view even when it rains.

3. Do not touch the lens with your fingers. Finger grease may be left on the lens and will result in unclear videos or snapshots. Clean the lens on a regular basis.

4. Do not install the camcorder on a tinted window. Doing so may damage the tint film.

5. Make sure that the installation position is not hindered by the tinted window.

6. To use the products of the attached power charger only, please do not use other brand power charger, in order to avoid equipment burn or cause the battery explosion.

Caution

❖ Due to local laws and vehicles safety considerations, do not operate the camcorder while driving.

❖ Set up time and date accurately before you use this device.

❖ Please use SuperCar software in condition that Electronic Map is function normally.

❖ The firmware function in the camcorder is for reference only, please follow the actual road condition.

❖ The results of GPS positioning are only for reference, and should not affect the actual driving situation. The system also cannot ensure the positioning accuracy.

❖ GPS positioning accuracy may differ depending on weather and location such as high buildings, tunnels, undergrounds, or forests. GPS satellite signals cannot pass through solid materials (except glass). Tinted window will also affect the performance of the GPS satellite reception.

- ❖ GPS reception performance on each camcorder may differ. The system cannot determine the accuracy of the positioning results from different camcorders.
- ❖ The values displayed in this system, such as speed, position, and the distance warning to the speed camera set points, may be inaccurate due to the influence of surrounding environment. They are for your reference only.
- ❖ The system is used only for non-commercial use, within the maximum limits permitted by applicable law. Our company does not accept any responsibility for any data loss during the operation.
- ❖ This product gets warm when in use; this is normal.
- ❖ Improper use or operation of the product may result in damage of the product or its accessories and void the warranty.
- ❖ HP Inc. is NOT responsible for the loss of any data/content during operation.

Before you start using the system, it assumes that you agree to the above statement.

1 Introduction

Thank you for purchasing this advanced Car Camcorder. This camcorder is specifically designed for real time video and audio recording when driving.

1.1 Features

- WFHD camera (2560x1080 @ 30fps)
- 2.4" LCD color screen
- Up to 140 ˚ Wide angle lens
- Motion detection
- Automatic Emergency recording for collision detection
- Supports SDHC up to 32GB
- Supports WDR / LDWS / GPS/ FCWS / Parking Mode

1.2 Package Contents

The package contains the following items. In case there is any missing or damaged item, contact your dealer immediately.

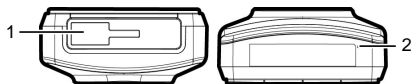Car Camcorder   Bracket   CD-ROM
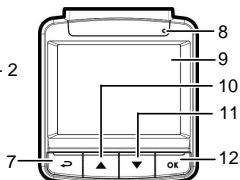
Quick start guide   Car adapter
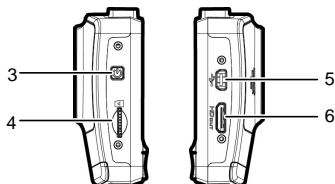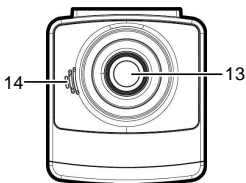
1.3   Product Overview

Top and Bottom Views

Front View

Side (Left and Right) Views

Rear View

| No.	Item	No.	Item
1	Bracket Socket	8	LED Indicator
2	Microphone	9	LCD Panel
3	Power Button	10	Up Button (▲)
4	Memory Card Slot	11	Down Button (▼)
5	USB Connector	12	Enter Button (OK)
6	HD(Mini HDMI) Connector	13	Wide Angle Lens
7	Back Button (⏎)	14	Speaker

Note:

To operate the camcorder, press the corresponding buttons (7,10,11,12) according to guide icons shown the screen.

2 Getting Started

2.1 Inserting the Memory Card

Insert memory card with the gold section facing upward and the screen of the camcorder facing upward too, as illustrated.

Push the memory card in until a click sound is heard, indicating the card is in position.
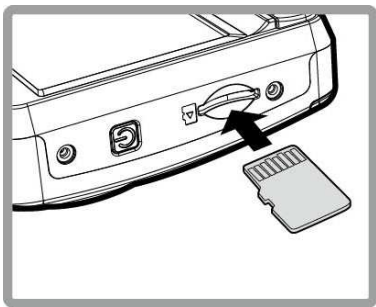
To remove the memory card

Push to eject the memory card out of the slot.

Note:

1. Do not remove or insert the memory card when the camcorder is turned on. This may damage the memory card.

2. Please use a 32GB, Class 6 or above Micro SD card.

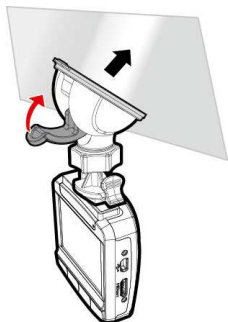3. Please format the micro SD cards before the initial use.

2.2 Installing in Vehicles

2.2.1 Mount to Windshield

1. Attach the bracket to the camcorder.
    Slide it into the bracket holder until you hear
    a click.
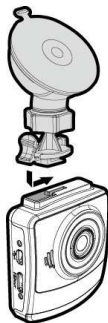
2. Before installing the bracket, please
    use alcohol to clean the windshield
    and suction cup of the bracket. Wait
    for dry and press suction-cup on the
    windshield.

3. Hold the base firmly on the
    windshield and press down the
    clamp to mount the car holder to the
    windshield. Make sure the base is
    securely locked in place.

Warning: Do not install the camcorder on a tinted window. Doing so may
damage the tint film.

2.2.2 Adjust the camcorder position

1. Loose the knob to swivel the
   camcorder vertically or
   horizontally.
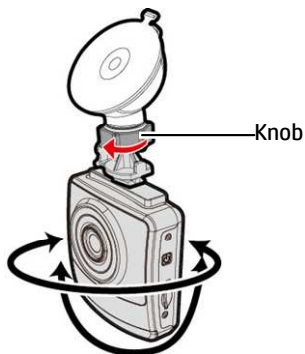
Knob

2. Then tighten the knob to make sure the camcorder is securely
   locked in place.

2.3 Connecting to Power
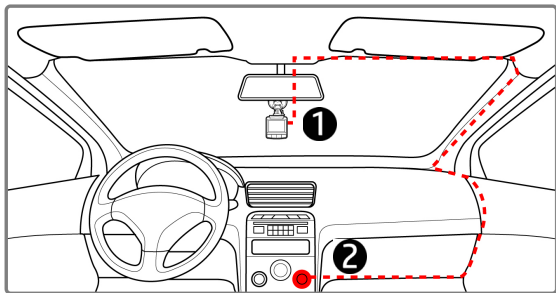
Use only the supplied car adapter to power up the camcorder and charge the built-in battery.

1. Connect one end of the car adapter to the USB connector of the camcorder. USB port input: DC 5V / 1A.
2. Plug the other end of the car charger to the cigarette lighter socket of your vehicle. Once the vehicle engine is started, the camcorder automatically turns on. Car charger input: DC 12 / 24V.

Note:
1. To use the products of the attached power charger only, please do not use other brand power charger, in order to avoid equipment burn or cause the battery explosion.
2. Red LED light indicates the battery is charging; when camcorders are connecting power cord to charge and the red light flashes, it indicates the camcorder temperature is too high and should unplug the power cord immediately.
3. Please take note if the environment temperature reaches 45°C or above, the car adapter still can supply power to camcorder, but it will not charge the Lithium-ion battery. This is the characteristic of Lithium-ion and is not a malfunction.

Battery Status Indicator:

Icon	Description
	Full battery power.
	2/3 battery power.
	1/3 battery power.
	Out of battery power.
	Battery is charging.
	Connect the car adapter to charge the battery, battery is full charged.

Low Voltage:
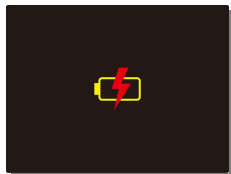
Note:
If the camcorder is connected to the car adapter and turned on, and the screen displays a charging reminder symbol such as the image above, it means that the available voltage is too low. Please wait for a few minutes until the charging reminder symbol disappears before entering the video recording mode to prevent invalid recording or file damage.

2.4 Powering the Camcorder On / Off

2.4.1 Auto Power On/Off

Once the vehicle engine is started, the camcorder automatically turns on. If the Automatic Record function is enabled, the recording will automatically start right away after the camcorder turns on.

Once the vehicle engine is shut down, the camcorder automatically saves the recording and turns off the power within 10 seconds.

Note:

Automatic power up and shut down assumes the power socket is linked to the car ignition.

2.4.2 Manual Power On/Off

To manually turn on the power, press the **POWER** button.

To turn off, press and hold the **POWER** button for at least 1 second.

To reset, press and hold the **POWER** button for at least 8 seconds.
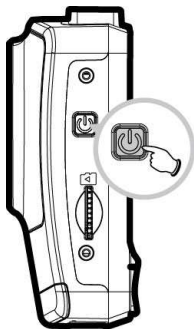
2.5   Initial Settings

Before using the camcorder, we recommend you to enable the Automatic Record function and set up the correct Date and Time.

2.5.1   Set the Date and Time

To set the correct date and time, do the following:

1.   Press the ⮌ button to enter the OSD menu.

2.   Press the ▲/▼ button to select **Date / Time** and press the OK button.

Date/Time			▨
2016 Y	01M 01D	01 : 00 : 00	
⮌	▲	▼	OK

3.   Press the ▲/▼ button to adjust the value and press the OK button to move to another field.

4.   Repeat step 3 until the date and time setting is complete.

Note:

To ensure the accuracy of the video file time, please reset the date and time when the battery power runs out or when not in use over 7 days.

2.5.2 Setting the Universal Time Code (UTC)

Depending on your location, you may need to change the current UTC setting of the camcorder so that the correct date and time are updated when a GPS signal is detected.

1. If recording is in progress, press the ▼ button to stop recording.
2. Press the ⮌ button to open the OSD menu.
3. Use the ▲ or ▼ buttons to navigate to the **Satellite Synchronization** option and press the **OK** button. Ensure that the **On** setting is selected and press the **OK** button again to view the UTC setting.
4. Refer to the UTC Map below and use the ▲ or ▼ button to select the desired setting and press the **OK** button to confirm the setting.
5. Press the ⮌ button to exit the menu.

City	UTC	City	UTC	City	UTC	City	UTC	City	UTC
Accra	0	Budapest *	+ 1	Houston *	- 6	Melbourne	+ 10	Santiago	- 4
Addis Ababa	+ 3	Buenos Aires	- 3	Indianapolis *	- 5	Mexico City *	- 6	Santo Domingo	- 4
Adelaide **	+ 9	Cairo	+ 2	Islamabad	+ 5	Miami *	- 5	São Paulo	- 3
Algiers	+ 1	Calgary *	- 7	Istanbul *	+ 2	Minneapolis *	- 6	Seattle *	- 8
Almaty	+ 6	Canberra	+ 10	Jakarta	+ 7	Minsk	+ 3	Seoul	+ 9
Amman *	+ 2	Cape Town	+ 2	Jerusalem *	+ 2	Montevideo	- 3	Shanghai	+ 8
Amsterdam *	+ 1	Caracas **	- 4	Johannesburg	+ 2	Montreal *	- 5	Singapore	+ 8
Anadyr	+ 12	Casablanca *	0	Kabul **	+ 4	Moscow	+ 4	Sofia *	+ 2
Anchorage *	- 9	Chicago *	- 6	Karachi	+ 5	Mumbai **	+ 5	St. John's **	- 3
Ankara *	+ 2	Columbus *	- 5	Kathmandu **	+ 5	Nairobi	+ 3	Stockholm *	+ 1
Antananarivo	+ 3	Copenhagen *	+ 1	Khartoum	+ 3	Nassau *	- 5	Suva	+ 12
Asuncion	- 4	Dallas *	- 6	Kingston	- 5	New Delhi **	+ 5	Sydney	+ 10
Athens *	+ 2	Dar es Salaam	+ 3	Kinshasa	+ 1	New Orleans *	- 6	Taipei	+ 8
Atlanta *	- 5	Darwin **	+ 9	Kiritimati	+ 14	New York *	- 5	Tallinn *	+ 2
Auckland	+ 12	Denver *	- 7	Kolkata **	+ 5	Oslo *	+ 1	Tashkent	+ 5
Baghdad	+ 3	Detroit *	- 5	Kuala Lumpur	+ 8	Ottawa *	- 5	Tegucigalpa	- 6
Bangalore	+ 5	Dhaka	+ 6	Kuwait City	+ 3	Paris *	+ 1	Tehran **	+ 3
Bangkok	+7	Doha	+ 3	Kyiv *	+ 2	Perth	+ 8	Tokyo	+ 9
Barcelona *	+ 1	Dubai	+ 4	La Paz	- 4	Philadelphia *	- 5	Toronto *	- 5
Beijing	+ 8	Dublin *	0	Lagos	+ 1	Phoenix	- 7	Vancouver *	- 8
Beirut *	+ 2	Edmonton *	- 7	Lahore	+ 5	Prague *	+ 1	Vienna *	+ 1
Belgrade *	+ 1	Frankfurt *	+ 1	Las Vegas *	- 8	Reykjavik	0	Warsaw *	+ 1
Berlin *	+ 1	Guatemala	- 6	Lima	- 5	Rio de Janeiro	- 3	Washington DC *	- 5
Bogota	- 5	Halifax *	- 4	Lisbon *	0	Riyadh	+ 3	Winnipeg *	- 6
Boston *	- 5	Hanoi	+ 7	London *	0	Rome *	+ 1	Yangon **	+ 6
Brasilia	- 3	Harare	+ 2	Los Angeles *	- 8	Salt Lake City *	- 7	Zagreb *	+ 1
Brisbane	+ 10	Havana *	- 5	Madrid *	+ 1	San Francisco *	- 8	Zürich *	+ 1
Brussels *	+ 1	Hong Kong	+ 8	Managua	- 6	San Juan	- 4		
Bucharest *	+ 2	Honolulu	- 10	Manila	+ 8	San Salvador	- 6		

* Be sure to adjust for daylight saving time (DST) by adding +1 hour to the UTC offset.

** These areas may observe half hour increments and daylight saving time (DST).

3 Using the Car Camcorder

3.1 Recording Videos

3.1.1 Record videos while driving

When the vehicle engine starts up, the camcorder automatically turns on and starts recording.

Recording will automatically stop when the engine is switched off.

Note:
On some cars, the recording will continue when the engine is switched off.
With some vehicle models, the automatic power up and off feature of this car camcorder will not function because the cigarette lighter/power socket is not linked to the ignition system.
To work around this issue, please do one of the following:
- Manually turn on or off the cigarette lighter/power socket if this is possible with your vehicle model.
- Manually plug in the power adapter into the socket to turn on the car camcorder and unplug from the socket to turn off the car camcorder.
- One video file is saved for every 3 or 5 minutes of recording. If the memory card capacity is full, the oldest file in the memory card will be overwritten.

3.1.2 Driver Fatigue Alert

If the **Driver Fatigue Alert** function is enabled, this product produces warning sound and screen message alerts one hour after it has begun recording and repeats the alerts every half an hour afterwards.

1. Press the ⮌ button to enter the OSD menu.

2. Press the ▲/▼ button, select **Driver Fatigue Alert**, and then press the OK button.

3. Press the ▲/▼ button, select **On**, and press the OK button.

4. Press the ⮌ button to exit the menu.

3.1.3 Speed Cam Alert

The **Speed Cam Alert** function is enabled by default. Once your car's location is determined by GPS and approaches a speed cam, this product produces voice and screen message alerts.

To enable the disabled Speed Cam Alert function:

1. Press the ⮌ button to enter the OSD menu.
2. Press the ▲/▼ button, select **Speed Cam Alert**, and then press the **OK** button.
3. Press the ▲/▼ button, select **On**, and press the **OK** button.
4. Press the ⮌ button to exit the menu.
5. Once your car's location is determined by GPS and approaches a speed cam, this product produces voice and screen message alerts. The alarm screen turns red to remind you to slow down if you are driving faster than the speed limit.

Note:

The speed cam alert function must have the speed cam datum from the country you use. The function will be void if the product are used in any others countries. Please consult with the shop you purchased if the function is void. The product never guarantee the speed cam datum will be included for the worldwide countries.

3.1.4 LDWS (Lane Departure Warning Systems)

Once your car's location is determined by GPS and the LDWS function is enabled, this product produces voice and screen message alerts when you drive off of or change lanes at speeds over 70 km/h (43 mile/h).

To set the LDWS (Lane Departure Warning System), please do the following:

1. Press the ⏎ button to enter the OSD menu.
2. Press the ▲/▼ button, select **LDWS**, and then press the OK button.
3. Press the ▲/▼ button, select **On**, and press the OK button.
4. Press the ⏎ button to exit the menu.
5. After enabling **LDWS**, the screen will display the alignment icon ⧛, please adjust the camcorder so that the horizontal line and the eye level are overlapped and the slash lines are centered in the driving lane. Make sure that align icon will not be obscured (e.g. hood) during installation, it may cause misjudgment if the endpoint is obscured.

3.1.5 FCWS (Forward Collision Warning System)

Once your car's location is determined by GPS and the **FCWS** function is enabled, this product produces voice and screen message alerts when you drive at speeds over 60 km/h (37 mile/h) and are less than 20m away from the car in front of you.

1. Press the ⤺ button to enter the OSD menu.
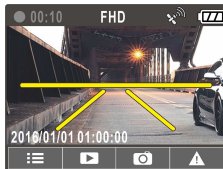2. Press the ▲/▼ button, select **FCWS**, and then press the OK button.
3. Press the ▲/▼ button, select **On**, and press the OK button.
4. Press the ⤺ button to exit the menu.

Note:
1. *FCWS* is only applicable when satellite positioning is in ready state. Make sure satellite positioning of your camcorder is ready if you want to activate this function. Satellite positioning function is dependent on the model purchased.
2. The detections of *FCWS* may be inaccurate when used in rain, at night or in environments of insufficient lighting. Drivers are advised to exercise discretion based on actual road conditions.

3.1.6 Parking Mode

If Parking Mode is activated, when manual power off, or turned off the car adapter when the camcorder is turned on, the system alert message "Press OK Key to enter Parking Mode after 10sec." will be displayed on the screen. This means the system will enter Motion Detection automatically in 10 seconds; when the camcorder detects any motion or collision in front of lens, Video Record will be activated for duration the same as the length setting.

To set the parking mode, do the following:
1. Press the ⮌ button to enter the OSD menu.
2. Press the ▲/▼ button to select **Parking Mode** and press the OK button.
3. Press the ▲/▼ button to select Motion Detection/ Parking Collision/ Dual Mode and press the OK button.
4. Press the ⮌ button to exit the menu.

Note:
1. When the battery is fully charged and is in good condition, Motion Detection can record continuously for about 30 minutes.
2. As the camcorder is used, the battery storage capacity will decrease gradually. This is a normal phenomenon for the battery
3. The LCD will be off in 30 seconds after the Motion Detection function is enabled.

3.1.7 Headlight Warning

The **Headlight Warning** function produces voice and screen message alerts when it detects poor lighting conditions through the recording displays of this product, including driving in rainy or cloudy weather, at night, and in basements, parking lots, and tunnels.

1. Press the ⤺ button to enter the OSD menu.
2. Press the ▲/▼ button, select **Headlight Warning**, and then press the OK button.
3. Press the ▲/▼ button, select **On**, and press the OK button.
4. Press the ⤺ button to exit the menu.

3.1.8 Emergency Recording

During normal video recording, press the OK button to begin emergency recording mode.
The "***Emergency***" message will be displayed immediately on the upper left corner of the screen, and the recorded file will be continuous and protected from being overwritten.
After complete the emergency recording, it will be back to normal recording mode.

Note:
1. If the *Collision Detection* function is enabled and a collision is detected, the camcorder will automatically trigger the emergency recording feature.
2. The emergency recording file is created as a new file, which will be protected to avoid being overwritten by normal loop recording. 8 GB (or above) memory card can save up to 10 emergency video files. The alert message of "*Emergency files are full*" will pop up on the screen when the emergency recording files are full, and the oldest emergency file will be automatically deleted when a new emergency recording file is created.

3.1.9 The Recording Screen

No.	Item	Description
1	Voice Record	Indicates turn off voice record
2	Duration	Indicates the current recording duration.
3	Date and time	Indicates the current recording date and time.
4	Guide icon (Menu)	Press the ⏎ button to enter the OSD menu.
5	Guide icon (Playback)	Press the ▲ button to switch to Playback mode.
6	Resolution	1080P 30fps/ 720P 60fps/ 720P 30fps
7	Battery	Indicates the remaining battery power.
8	Guide icon (Snapshot)	Press the ▼ button to take a snapshot during recording
9	Guide icon (Emergency)	Press the **OK** button to enter and initiate emergency recording, and the recorded file will be protected.
10	Satellite positioning icon	The 📡 icon appears on the screen when satellite positioning of the camcorder is ready.

3.2   Playback Videos and Photos

1. During recording, press ▲ button to browse for the desired video and photo file.

2. Press the ▲/▼ button to select the file that you want to browse and press the **OK** button.

3. Press the ▲/▼ button to view the next or the previous file and press the **OK** button to view the file in full screen.

4. When user want to playback the emergency video file, they could check on file name as EMER
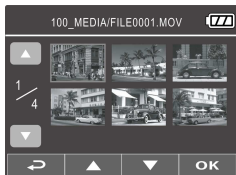
3.2.1 The Playback Screen

Video Playback Screen

Photo Playback Screen

No.	Item	Description
1	Guide icon (Back)	Press the ⤺ button to return to file selection display.
2	Guide icon (Previous)	Press the ▲ button to view the previous video/photo.
3	Guide icon (Next)	Press the ▼ button to view the next video/photo.
4	Guide icon (Pause)	Press the OK button to pause the video playback.
5	Duration	Indicates the elapse time / total recording time.
6	Battery	Indicates the estimated remaining battery power.
7	File name	Indicates video / photo file name.

3.2.2 Deleting Files

To delete file(s), do the following:

1. If recording is in progress, press the ⏎ button to enter the OSD menu.

2. Press the ▲/▼ button to select **File Deletion** and press the OK button.

3. Press the ▲/▼ button to select **Delete One** or **Delete All**, then press the OK button.

4. After select **Delete One**, press the ▲/▼ button to select that you want to delete, then press the OK button.

5. After select **Delete All**, press the ▲/▼ button to select **Video File** or **Image File** that you want to delete, then select YES or NO to delete.
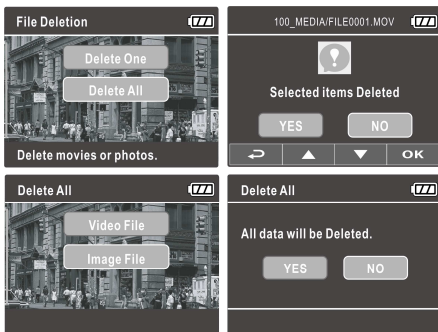
Note:

1. Deleted files CANNOT be recovered. Ensure the files have backup before deletion.

2. Emergency files cannot be deleted from this operation. They can be deleted by inserting memory card into your PC or format memory card.

4 Adjusting the Settings

4.1 Using the Menu

You can customize the video recording and other general settings via the on-screen display (OSD) menus.

Menu	🔋	Menu	🔋	Menu	🔋
Satellite Status		**Resolution**	1080p 30fps	**Speed Cam Alert**	Off
Set Timezone	GMT+08:00	**EV**	0	**Distance Unit**	KM
Date/Time		**Driver Fatigue Ale**	Off	**Speed Limit Alert**	Off
⮌	▲ ▼ OK	⮌	▲ ▼ OK	⮌	▲ ▼ OK

Menu	🔋	Menu	🔋	Menu	🔋
LCD setting	On	**Record Interval**	3 min.	**LDWS**	Off
Voice Record	On	**Collision Detec.**	Normal Sensit	**FCWS**	Off
Volume	9	**Parking Mode**	Off	**WDR**	Off
⮌	▲ ▼ OK	⮌	▲ ▼ OK	⮌	▲ ▼ OK

Menu	🔋	Menu	🔋	Menu	🔋
Headlight Warning	Off	**File Deletion**		**Firmware Version**	XXXXXX
Language	English	**Format**			
Anti-flicker	60Hz	**Default**			
⮌	▲ ▼ OK	⮌	▲ ▼ OK	⮌	▲ ▼ OK

1. If recording is in progress, press the ⮌ button to open the OSD menu.

2. Press the ▲/▼ button to select a menu option and press the OK button to enter the selected menu.

3. Press the ▲/▼ button to select the desired setting and press the OK button to confirm the setting.

4. Press the ⮌ button to exit the menu, back to recording mode.

4.2   Menu Tree

Refer to the below table for details on menu items and available menu options.

Menu option	Description	Available option
Satellite Status	Displays the current state of the satellite reception.	
Set Timezone	Automatically synchronize with the local satellite time. When this feature is enabled, the system will use the satellite time, and you cannot manually change the time.	Press ▲/▼ button to set the satellite time. You may customize it between GMT +14:00 ~ GMT -12:00
Date / Time	Set the date and time.	Press ▲/▼ button to adjust the value, press the OK button to switch the field and confirm
Resolution	Set the video resolution.	1920 X 1080 30fps / 1280 X 720 30fps / 1280 X 720 60fps
EV	Set the exposure compensation.	Press ▲/▼ button to set the exposure level. You may customize it between -2 ~ +2
Driver Fatigue Alert	If the Driver Fatigue Alert function is enabled, this product produces warning sound and screen message alerts one hour after it has begun recording and repeats the alerts every half an hour afterwards.	On / Off
Speed Cam Alert	Warns the driver when the vehicle is approaching a speed camera.	On / Off
Distance Unit	Select the unit for distance display.	KM / MILE

Menu option	Description	Available option
Speed Limit Alert	Set a customized maximum speed limit. When the vehicle speed exceeds the maximum, a warning tone is automatically triggered and a warning message is displayed on the screen.	Press ▲/▼ button to set the speed limit. You can set the off, or set the speed limit from 50km/h to 200km/h
LCD Setting	Set LCD off time. Camcorder screen will be off after a set time if no operation is detected during the standby or record mode. Press any button will switch it on. (Recording is not affected when screen is off).	On / Turn Off After 30 sec. / Turn Off After 3 min. / Off
Voice Record	Setting for activating audio in the video.	On / Off
Volume	Set the volume up and down.	1~10
Record Interval	Save respective video files in a length of the selected duration.	3 min. / 5 min.
Collision Detection	Enable / Disable the collision detection. If this function is enabled and any collision is detected, the camcorder will automatically trigger the emergency recording.	High Sensitivity / Normal Sensitivity / Low Sensitivity / off
Parking Mode	I If Parking Mode is activated, when manual power off, or turned off the car adapter when the camcorder is turned on, the system alert message "Press OK Key to enter Parking Mode after 10sec." will be displayed on the screen. This means the system will enter Motion Detection automatically in 10 seconds; when the camcorder detects any motion or collision in front of lens, Video Record will be activated for a duration the same as the length setting.	Off / Motion Detection / Parking Collision / Dual Mode

| Menu option	Description	Available option
LDWS	When the LDWS is on, satellite positioning is set, and the vehicle is moving at the set speed, if the vehicle starts drifting out of the lane, the camcorder will sound an alert, and a warning image will be displayed as a reminder.	On / Off
FCWS	The Speed Cam Alert function is enabled by default. Once your car's location is determined by GPS and approaches a speed cam, this product produces voice and screen message alerts.	On / Off
WDR	Present a crisp and clear picture quality with harmonious contrast in a high contrast, high discrepancy environment.	On / Off
Headlight Warning	When Headlight is activated, camcorder will issue a voice alert and an alarm screen reminding that insufficient brightness is sensed on the recording face.	On / Off
Language	Set the on-screen display menu language.	According to the actual shipping regions
Anti-flicker	Domestic power supply varies by area. It is recommended that you should check the "Table of voltage and frequency of different countries" for the correct setting.	50Hz / 60Hz
File Deletion	Delete the file(s).	Delete One / Delete All
Format	Format the memory card inserted in the equipment. All the files in the card will be erased.	Yes / No
Default	Reset all settings to factory default settings.	Yes / No
Firmware Version	Firmware Version.	

5 Installing the Software

1. Place the attached CD ROM into the CD player.

2. If the CD does not execute automatically, please use Windows File Manager to execute the **Install_CD.exe** file in the CD.

   The following screen will be shown up.

3. Press the [Menu] item to start the installation process according to the instructions on-screen.

6 SuperCar
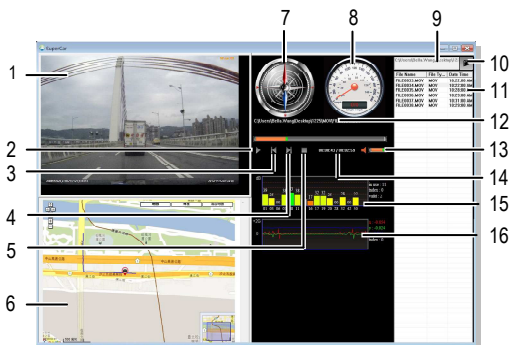
No.	Item
1	Video Player
2	Play / Pause
3	Previous
4	Next
5	Stop
6	Electronic Map
7	Compass
8	Speed Meter

No.	Item
9	File Path
10	Browser File
11	File List
12	File Name
13	Volume
14	Current Duration / Total Duration
15	Signal Noise Ratio (SNR)
16	G-Sensor

Note:
1. To display the route on Electronic Map, please make sure the internet is connected before starting the video playback
2. Video files (MOV / TS) and GPS/G-Sensor files (NMEA) must be stored in the same folder before starting the playback.
3. The included SuperCar software is only for Windows computers.

7   Specifications

Item	Description
Image sensor	1/2.7" CMOS sensor
Effective pixels	1920 (H) x 1080 (V)
Storage media	Support Micro SDHC, up to 32GB class 6or above
LCD display	2.4" LCD color TFT (112K pixels)
Lens	Wide Angle Fixed Focus lens F1.9, f=3.8mm
Focus range	1.5m~Infinity
Satellite System	GPS / GLONASS (Satellite Positioning feature varies depending on the model)
Movie Clip	Resolution: Full HD (1920 x 1080), 30fps
	Format: MOV
Still image (Snapshot)	Resolution: 2M 1920(H) x 1080(V)
	Format: DCF (JPEG, Exif: 2.2)
Shutter	Electronic shutter Auto: 1/33, 120- 1/30sec.
G-Sensor	3-Axis G-Force sensor
ISO	Auto
White Balance	Auto
Microphone	Yes
Speaker	Yes
Interface	Mini USB; Mini C Type HDMI

Item	Description
Battery	Built-in 470mAH Li-polymer rechargeable
Operating Temperature	0° ~ 60° C
Operating Humidity	20 ~ 70% RH
Storage Temperature	-20° ~ 70° C
Dimensions	70 x 63 x 27.2 mm
Weight	Approx. 90g