



f650g

**Car Camcorder
行車記錄器 (GPS)**

**User Manual
使用說明書**



f650g

**Car Camcorder
User Manual**

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About this Guide

The content in this document is for information purpose and is subject to change without prior notice. We have made every effort to ensure that this User Guide is accurate and complete.

However, no liability is assumed for any errors or omissions that may have occurred.

The manufacturer reserves the right to change the technical specifications without prior notice.

Regulatory notices

This document provides country- and region-specific non-wireless and wireless regulatory notices and compliance information for your product. Some of these notices may not apply to your product.

Prohibition of co-location

This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.

WEEE Notice

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



WEEE



Battery

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 2014/35/EU, the EMC Directive 2014/30/EU, the RED-Directive 2014/53/EU and the RoHS Directive 2011/65/EU.

Notes on Installation

1. Please measure the front windshield viewing area, make sure not to block driver's front view, install the camcorder below the rearview mirror (the central, higher right position of the front windshield). And we recommend that the sky and the land occupied by the screen 50%, fix the car holder and then adjust the camcorder so that the lane is aligned with the screen. Proper installation enables the camcorder to maximize the efficiency also can enhance the accuracy of LDWS.
2. Make sure that the lens is within the wiping range of the windshield 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 pictures. 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. This product is suitable for light windshield or light color heat-resistant film windows, it will affect video quality if install it on the dark windows or dark heat-resistant film windows.
7. 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.
8. **We have provided 2 mounting brackets with this HP Car Camcorder. The suction cup bracket is designed for temporary mounting and will require periodic re-installation. The adhesive bracket is designed for one time and long term installation. We recommend using the adhesive bracket if permanent installation is desired. Please install the bracket on the best open-field view. Do NOT install the bracket in a location that may obstruct your field of view and impact driving safety. HP or our authorized HP partners are NOT liable for any damages or data loss due to improper bracket mounting or suction cup bracket losing seal and dropping.**

Caution

- ❖ Due to local laws and vehicles safety considerations, do not operate the camcorder while driving.
- ❖ Set up time zone, time and date accurately before you use this camcorder.
- ❖ Please use SuperCar software under the condition that Electronic Map are functioning normally.
- ❖ The firmware function in the camcorder is for reference only, drivers are advised to exercise discretion based on actual road conditions.
- ❖ The results of GPS positioning are only for reference, and should not affect the actual driving situation. The camcorder 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 camcorder cannot determine the accuracy of the positioning results from different hardware.
- ❖ The values displayed in this camcorder, such as speed and position, may be inaccurate due to the influence of surrounding environment. They are for your reference only.
- ❖ This product is used only for non-commercial use, within the maximum limits permitted by applicable law. We do not take any responsibilities for the loss of use of the product.
- ❖ This camcorder 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.
- ❖ 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 is assumed that you agree to the above statement.

1 Introduction





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

1.1 Features

- Full HD 1920*1080
- 2.0" TFT-LCD color screen
- 150° Wide angle lens
- Collision Detection, when a collision is detected, the camcorder will automatically trigger the emergency recording
- Parking Mode
- Multifunction traffic safety reminder

1.2 Package Contents

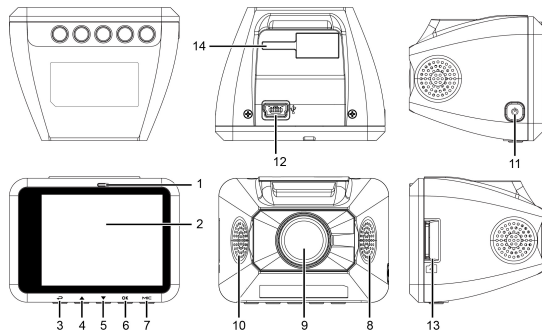
The package contains the following items. In case there is any missing or damaged item, contact your dealer immediately.

Car camcorder	Bracket X 2
	
User Manual	Car charger
	

Note:

We recommend using the adhesive bracket if permanent installation is desired. Do NOT install the bracket in a location that may obstruct your field of view and impact driving safety. HP or our authorized HP partners are NOT liable for any damages or data loss due to improper bracket mounting or bracket losing seal and dropping.

1.3 Product Overview



No.	Item	No.	Item
1	LED Indicator	8	Speaker
2	LCD Color Screen	9	Wide Angle Lens
3	Menu / Back Button (☰ / ↩)	10	Microphone
4	Add Speed Cam / Up Button (📷 / ▲)	11	Power Button
5	Snapshot / Down Button (📷 / ▼)	12	Power Connector Port
6	Emergency Record / Confirm Button (⚠ / ⏹)	13	Memory Card Slot
7	Audio Record on/off (MIC)	14	Bracket Socket

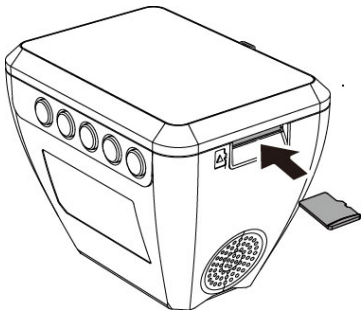
Note:
Please press the button (3~7) according to the diagram notice shown on screen.

2 Getting Started

2.1 Storage Media

2.1.1 Insert the Memory Card

Insert memory card with the pins facing forward and the screen of the camcorder facing forward too, see the picture as below:



2.1.2 Remove the Memory Card

If the camcorder is power on, please power off first and wait for the procedure of switching off the camcorder completed before removing the memory card.

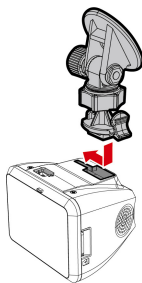
Note:

1. Do not remove or insert the memory card when the camcorder is turned on. This may damage the memory card.
2. Support SDHC class 10 and memory storage 8GB or above (support up to 32GB).
3. Please format the micro SD cards before the initial use. The formatted file type for this camcorder is FAT32 file.
4. Periodically format the microSD card (recommended period: once a month).

2.2 Installing in Vehicles

2.2.1 Mount to Windshield

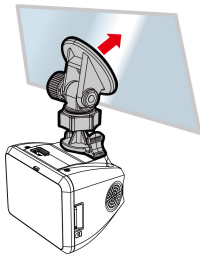
1. Push the mount into mount slot on top of device, until a click sound is heard..



2. Peel off the protective plastic sheet from the adhesive bracket.

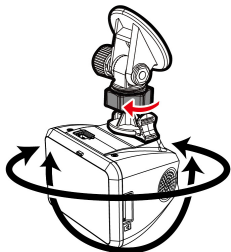


3. Place and press down the bracket firmly onto your windshield. Make sure the base is securely locked in place.



2.2.2 Adjust the Camcorder

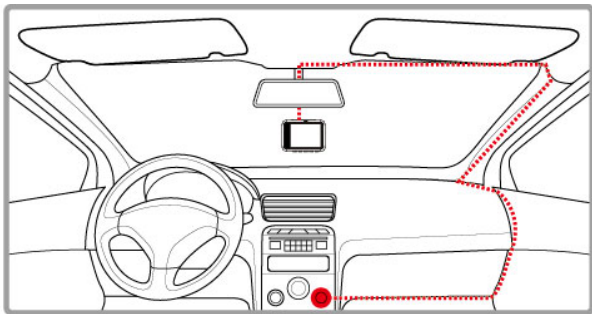
1. Loosen the knob to swivel the device vertically or horizontally.



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 charger to power up the camcorder.



1. Connect one end of the car charger 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 powers on. Car charger input: DC 12 / 24V.

2.4 LED Indicator

Status Explanation	LED Indicator Color
Power off, connect external power	Red
Power on, standby	Green
Recording/ Recording and screen off	Flash red

2.5 Powering the Camcorder On / Off

2.5.1 Auto Power On/Off

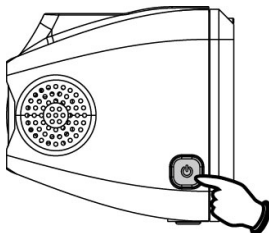
Start the car engine, wait a few seconds to charge the camcorder, and then screen will light up and the camcorder will automatically power on and start recording.

Once the vehicle engine shuts down, the camcorder automatically saves the recording and turns off the power.

2.5.2 Manual Power On/Off

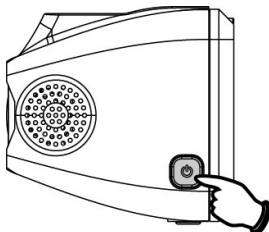
To manually turn on the power, press the **POWER** button.

To turn off, press and hold the **POWER** button for at least 2 seconds.



2.5.3 Reset


Press and hold the Power button for 8 seconds to reset the device.



2.6 Initial Settings









Before using the camcorder, we recommend you setup the correct **Time zone, Date and Time**.

Note:

Please note that if you press the  button during recording, the system will stop recording and enter OSD menu. Make sure the recording is already stopped then continue operating the menu.

2.6.1 Set Time Zone

To set the time zone, do the following:

1. Press the  button to enter the OSD menu.
2. Press the  or  button to select **Set Time Zone**, and then press the  button for entering function menu.
3. Press the  or  button to set the current time zone, and then press the  button to complete setting.
4. Press the  button to return to recording screen.








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	+5	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	Yanゴン **	+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		

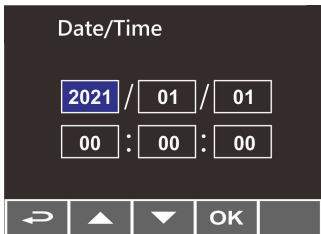
Note:

1. If *Time Sync* is on, camcorder clock will be calibrated with satellite clock signal based on *Set Time zone*.
2. If satellite positioning is not successful, camcorder clock will run based on user defined time.

2.6.2 Set the Date / Time

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

1. Press the  button to enter the OSD menu.
2. Press the  or  button to select **Date / Time**, and then press the  button for entering function menu.
3. Press the  or  button to adjust the value, and then press the  button to set the next field.
4. Repeat step 3 until the date and time setting is completed.



Note:

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

3 Using the Car Camcorder

3.1 Automatic Record

Start the car engine, wait a few seconds to charge the camcorder, and then screen will light up and the camcorder will automatically power on and start recording.










Recording will automatically stop when the engine is switched off.





Note:

1. Some vehicle power supply would not turn on / off automatically with the car engine start, if the camcorder cannot automatically power on/off with the car engine, please manually connect the power supply with the vehicle power, and then power on, or manually power off the camcorder and then release the connector with the car power supply.
2. It can be configured to save a video file for every 30 seconds, 1 or 3 minutes of recording.
3. All the videos and photos are saved in the memory card, if memory card is full, loop recording will generally overwrite the oldest video file.
4. The camcorder is built-in super capacitor. After start the car engine, please wait a few seconds for charging the camcorder, and then the camcorder will automatically power on and start recording.

3.1.1 The Recording Screen




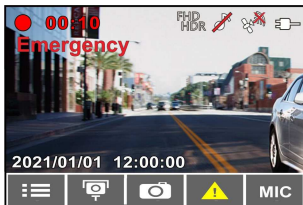
No.	Icon	Item	Description
1	 00:10	Recording Duration	Indicates the video current duration.
2	2021/01/01 12:00:00	Date / Time	Indicates the current recording date and time.
3		Menu Button	During video recording, press the  button to enter the OSD menu.
4		Add Speed Point Button	During video recording, press the  button to add a speed cam point.
5		PIV (Picture in Video) Button	Press  to capture video screen shots from the front camera.
6		Emergency Recording Button	During video recording, press the  button to enter emergency recording mode.
7	MIC	Microphone on/off Button	Press MIC button to activate audio recording function.

8		Resolution icon	Indicates the video resolution.
9		Voice Record icon	Indicates voice recording sets as off, the sound will not be recorded.
10		Satellite Positioning icon	Indicates the strength of satellite positioning. If the icon shows in red on screen, it indicates that the camcorder cannot complete the satellite positioning.
11		Power icon	Indicates camcorder is connected with power.

3.1.2 Emergency Recording

To Start the Emergency Recording, do the following:

1. During Video Recording, press the  button to enter emergency recording mode, the “**Emergency**” message will be shown immediately on the upper left corner of the screen, and the recorded file will be protected.
2. The emergency video recording length is same as the recording interval setting. When the emergency recording length reaches the setting, the system will return to the general recording mode.




Note:

1. If the *Collision Detection* function is enabled and a collision is detected, the camcorder will automatically trigger the emergency recording.
2. The emergency file is created as a new file and saved in Emergency folder, which will be protected to avoid being overwritten by normal loop recording. The Emergency folder will occupy 40% of available memory card capacity. For example, if you use 8GB memory card, about 3.2GB memory space will be saved for emergency files. When the Emergency folder is full, the oldest emergency file will be automatically deleted by the newest emergency file.

3.2 Add Speed Point

You may customize speed cam positions in this product.



1. When the GPS positioning is completed, press  to update speed camera points.
2. This product features a capacity of 50 speed cam positions. In case you are trying to add more than that, the system prompts with message “**Speed Position is full**”.

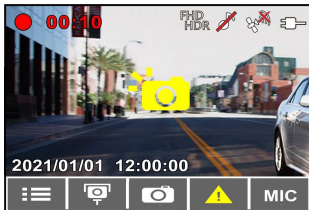
Note:

You may delete custom speed cam positions by selecting the *Delete Last Position* or *Delete All Position* option from the *Speed Position Management* menu. Please note that all of your existing speed cam positions are deleted once the *Delete All Position* option is selected. Make sure you are ready to recreate your custom speed cam positions before running this option.

3.3 Picture in Video

You can also use this camcorder to take snapshots of the current scene.

1. In recording status, press  to capture recording screen shots from the front (and rear) lens.
2. When the icon  shows in the central of screen, it means the screenshots is completed.



Note:

1. The screen shots image resolution quality is depending on the video resolution setting.
2. The picture resolution is limited by the speed of the target object and changes in ambient lighting. The photograph function is better used for taking still pictures in accident scenes or when the car is stopped to wait for a traffic light.

3.4 Driving Safety

The following driving safety function is for reference only. Drivers are advised to exercise discretion based on actual road conditions.







Note:

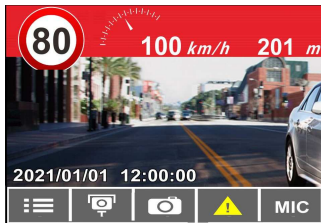
1. The *Driving Safety* function is limited to triggering no more than two alarms at the same time. If a voice and alert message have been triggered, any other alarm will be ignored until either of the two is settled.
2. Satellite positioning must be completed before functions such as *Speed Cam Alert*, *Speed Position Management*, *Speed Limit Alert*, *LDWS*, *FCWS* and *FCMD* to be enabled. Be sure to check that Satellite positioning has been completed prior to using the product.
3. The detections of *LDWS*, *FCWS* and *FCMD* 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.

3.4.1 Speed Cam Alert

If the **Speed Cam Alert** function is enabled, once your car's location is determined by GPS and approaches a speed cam, this product produces audible alert and screen message.

To enable the Speed Cam Alert, do the following:

1. Press the  button to enter the OSD menu.
2. Press the  button to select **Speed Cam Alert**, and then press the  button for entering function menu.
3. Press the  button to select **On**, and then press the  button to enable the function.
4. Press the  button to return recording screen.
5. The alarm screen turns red to remind you to slow down if you are driving faster than the speed limit.









Note:

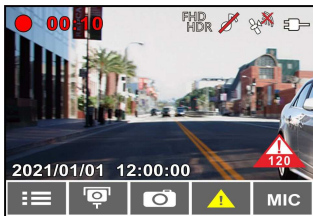
The speed cam alert function must have the speed cam datum from the country you use. The function will be void if the product is used in any other countries. Please consult with the shop you purchased if the function is void. There is no guarantee the speed cam datum will be included for the worldwide countries.

3.4.2 Speed Limit Alert

If the **Speed Limit Alert** function is enabled, this product produces audible alert and screen message once your car's location is determined by GPS and its running speed exceeds the set limit.

To set the Speed Limit Alert, do the following:







1. Press the  button to enter the OSD menu.
2. Press the  button to select **Speed Limit Alert**, and then press the  button for entering function menu.
3. Press the  button to set up a Speed Limit Alert to trigger this product's alarm [Off / 50 ~ 200 km/h (30~125 mph)], and then press the  button to complete setting.
4. Press the  button to return recording screen.
5. The screen pops up red icon to remind you to slow down when you are driving faster than the set speed limit.



3.4.3 Driver Fatigue Alert

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

To enable the Driver Fatigue Alert, do the following:







1. Press the  button to enter the OSD menu.
2. Press the  button to select **Driver Fatigue Alert**, and then press the  button for entering function menu.
3. Press the  button to select **On**, and then press the  button to enable the function.
4. Press the  button return to recording screen.
5. This product produces audible alert and screen message when **Driver Fatigue Alert** activates.




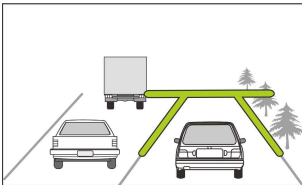
3.4.4 LDWS

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

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

1. Press the  button to enter the OSD menu.
2. Press the  button to select **LDWS**, and then press the  button for entering function menu.
3. Press the  button to select **On**, and then press the  button to enable the function.
4. Press the  button to return to recording screen.

5. After enabling **LDWS**, the screen will display traffic lane align 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.



6. This product produces audible alert and screen message when **LDWS** is activates.









Note:

1. Please measure front windshield viewing area, do not block the driver's forward field of vision, and install the camcorder below rearview mirror (upper central of the front windshield). We recommend that the sky and the ground occupied 50 % of the video screen, install the bracket then adjust the camcorder to make the lane is aligned to the lane alignment icon. Correct installation makes the camcorder to maximize the efficiency and improve the accuracy of LDWS.
2. Make sure that traffic lane align icon will not be obscured other things (e.g. hood). It may cause misjudgment if the endpoint is obscured.

3.4.5 FCWS

Once your car's location is determined by GPS and the **FCWS** function is enabled, this camcorder produces audible alert and screen message when you drive at speeds over 60 km/h (37 mph) and are less than 20 m away from the car in front of you. If the camcorder not completes the satellite positioning, and the leading vehicle distance below 20 meters, it will also produce a warning screen and beep reminder.

To set the FCWS (Forward Collision Warning System), do the following:







1. Press the  button to enter the OSD menu.
2. Press the  button to select **FCWS**, and then press the  button for entering function menu.
3. Press the  button to select **On**, and then press the  button to enable the function.
4. Press the  button to return recording screen.
5. This product produces audible alert and screen message when **FCWS** is activates.



3.4.6 Headlight Warning

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

To enable the Headlight Warning, do the following:







1. Press the  button to enter the OSD menu.
2. Press the  button to select **Headlight Warning**, and then press the  button for entering function menu.
3. Press the  button to select **On**, and then press the  button to enable the function.
4. Press the  button to return recording screen.
5. This product produces audible alert and screen message when **Headlight Warning** activates.



3.4.7 FCMD

If FCMD function is enabled, when the front car moves and you don't start to drive forward, the camcorder will issue audible alert and screen message.

To set the FCMD (Front Car Move Detection), do the following:

1. Press the  button to enter the OSD menu.
2. Press the  button to select **FCMD**, and then press the  button for entering function menu.
3. Press the  button to select **On**, and then press the  button to enable the function.
4. Press the  button to return recording screen.
5. This product produces audible alert and screen message when **FCMD** activates.



Note:







The camcorder will detect the front image change to determine FCMD notification alert, so if the car is in rest condition and front object moves, the camcorder may occur false judgment, and please judge it according to the actual driving situation.

3.5 Parking Mode

To monitor the vehicle when it is parked, you can activate **Park Recording**, or **Motion and Collision Detection**, or **Timelapse**.

Before you activate Parking Mode, please install ACC cable through professional car service shop.

Follow the steps below to change the settings for Parking Mode:

1. Press the  button to enter the OSD menu.
2. Press the  button to select **Parking Mode**, and then press the  button for entering function menu.
3. Press the  button to configure Parking Mode (Park Recording / Motion and Collision Detection / Timelapse/ Off), and then press the  button to complete setting.
4. Press the  button to return recording screen.

Note: ACC cable is not included in the package. Please ask for more information from your distributor.

3.5.1 Park Recording

- In normal recording, press and hold **POWER** key for 3 seconds, the screen will show message "**Press OK key to power off or enter Park Recording after 10 sec.**" Please wait for 10 seconds and the camcorder will enter Park Recording automatically. The camcorder will turn off the screen temporarily, but still in recording status. Once the collision or vibration is detected, it will automatically trigger emergency recording.
- To disable this function, press any key to wake up the screen, and press again any key to resume to normal loop recording.

Note:

1. The video file taken in this mode is same as normal loop recording mode. It will be saved in the "Video" folder. And the emergency file will be saved in the "Emergency" folder.
2. The file size is according to Record Interval setting.

3.5.2 Motion and Collision Detection

- In normal loop recording mode, press and hold **POWER** key for 3 seconds, the screen will show message “**Press OK to power off or enter Motion and Collision Detection after 10 sec.**” Please wait for 10 seconds and the camcorder will enter Motion and Collision Detection automatically. The camcorder will turn off the screen temporarily, but still in standby detection status. When the camcorder detects any motion in front of lens or any vibration/collision, the video recording will be triggered and the event will be recorded.
- To disable this function, press any key to wake up the screen, and press again any key to resume to normal loop recording.

Note:

1. The video file taken in this mode will be saved in the “Emergency” folder.
2. In this mode, the event will be recorded for 10 seconds (per file). If the event lasts more than 10 seconds, the camcorder will keep recording up to 2 minutes.

3.5.3 Timelapse







- In normal loop recording mode, press and hold **POWER** key for 3 seconds, the screen will show message “**Press OK to power off or enter Timelapse after 10 sec.**” . Please wait for 10 seconds and the camcorder will enter Timelapse automatically. The camcorder will turn off the screen temporarily, but in timelapse recording status.
- To disable this function, press any key to wake up the screen, and press again any key to resume to normal loop recording.

Note:












1. The video file taken in this mode will be saved in the “Video” folder.
2. In this mode, the camcorder is continuously recording by one second one frame. For example, 30 minutes recording will be saved in one minute.
3. The file size is according to Record Interval setting.

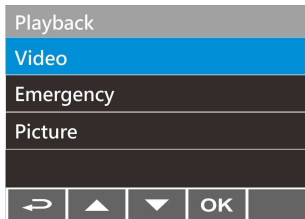
3.6 Collision Detection

If the **Collision Detection** function is enabled, this camcorder begins emergency recording once it detects any collision. Sensitivity of the Collision Detection function is set to Normal by default, if user wants to change the settings of Collision Detection, do the following:

1. Press the  button to enter the OSD menu.
2. Press the  button to select **Collision Detection**, and then press the  button for entering function menu.
3. Press the  button to change the sensitivity of this camcorder's collision detection (High Sensitivity / Normal Sensitivity / Low Sensitivity / Off), and then press the  button for entering function menu.
4. Press the  button return to recording screen.






3.7 Playback Videos and Photos

1. If recording is in progress, press the  /  button to stop recording and enter Menu.
2. Press the  or  button to select **Playback** and press the  button.
3. Press the  or  button to select **Video**, **Emergency** or **Picture** category and press the  button.
4. Use the  or  to select the video or photo you want to playback, and press  button to confirm your selection.










3.8 The Playback Screen






No.	Item	Description
1	File name	File name
2	Duration/ Total recorded time	Indicates the video elapse time/ Indicates total recorded time
3	Return	Press the  button to return preview screen of video or picture. Press the  button repetitively to return recording screen.
4	Previous File Button	Press  button to view previous file.
5	Next File Button	Press  button to view next file.
6	Playback/ Pause button	Press the  button to play or pause the video.
7	Stamp print	Indicates date and time stamp
8	File	Current file / total file number

3.9 Deleting Files

To delete file(s), perform the following steps:

1. Press the  button to stop recording and enter the main Menu.
2. Press the  or  button to select **File Deletion** and press the  button to confirm.
3. Press the  or  button to select folder and press the  button to confirm. The following options will display in screen,

Item	Description
Delete One	Delete the current selected file.
Delete All	Deletes all files in this folder.

4. Use the  or  to select the video or photo you want to delete, and press  button to confirm your selection.







Note:

Deleted files CANNOT be recovered. Ensure the files you wish to preserve are backup before deletion.

4 Adjusting the Settings

4.1 Using the Menu

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

1. Press the  button to enter the OSD menu.
2. Press the  button to select menu item, and then press the  button for entering function menu.
3. Press the  button to select or adjust the value, and then press the  button to confirm setting.
4. Press the  button to return recording screen.

4.2 Menu Items

Refer to the below table for details of main menu and function list.

Menu option	Description	Available option
Playback	Select the file category that you want to view.	Video Emergency Picture
Satellite Status	Displays the current state of the satellite reception.	
Satellite Synchronization	If the satellite time is enabled, the car camcorder clock will synchronize according to the satellite time zone you set. When you turn on this feature, it will display the satellite time preferentially, and cannot be manually changed.	On / Off
Speed Unit	The system displays the speed setting unit.	KM/H / MPH

Menu option	Description	Available option
Speed Cam Alert	If the Speed Cam Alert function is enabled, once your car's location is determined by GPS and approaches a speed cam, this product produces audible alert and screen message.	On / Off
Speed Position Management	Add Speed Point: The satellite positioning will manually add speed camera location. You can add up to 50 speed camera locations to the built-in system. Delete Last Position: Delete the last speed camera point. Delete All Position: Delete all speed camera point.	Add Speed Point / Delete Last Position / Delete All Position
Speed Limit Alert	Set a customized maximum speed limit. When the vehicle speed exceeds the maximum, an audible alert is automatically triggered and a warning message is displayed on the screen.	Press the \triangle/∇ button to set the speed limit. You can set the off, or set speed limit from 50 to 200km/h (30 to 125mph)
Set Time Zone	Set the time zone you are in.	Press the \triangle/∇ button to set the satellite time. You may customize it between GMT -12 ~ GMT +14
Date / Time	Set the date and time.	Press the \triangle/∇ button to adjust the value, and then press the OK button to set the next field, and complete setting
Language	Language setting.	According to the actual shipping regions.
Time Stamp	If the time stamp is enabled, recording files or photos will show the date and time.	On / Off
Resolution	Setting of video resolution.	1920x1080 30fps HDR 1920x1080 27.5fps HDR 1280x720 30fps HDR 1280x720 27.5fps HDR

Menu option	Description	Available option
EV	Setting of exposure value.	Press the \triangle/∇ button to set the exposure value. It can be set between -2 ~ +2
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 7 sec / Turn off after 1min/ Turn off after 3min
Voice Record	Setting for activating audio in the video.	On / Off
Key Tone	Enable / disable power-on sound and key tone.	On / Off
Volume	Adjust the sound volume.	Press the \triangle/∇ button to set the volume. It can be set between 0 ~ 10.
Record Interval	Save respective video files in a length of the selected duration.	30 sec. / 1 min. / 3 min.
Parking Mode	If one of parking mode is activated, the camcorder will enter parking mode 10 seconds after disconnect the external power.	Off/ Park Recording / Motion and Collision Detection / Timelapse
Collision Detection	If Collision Detection is activated, this camcorder starts emergency recording once it detects any collision.	High Sensitivity / Normal Sensitivity / Low Sensitivity / Off
Driver Fatigue Alert	When Driver Fatigue Alert is enabled, audible alert and screen message will be activated 1 hour after the camcorder is powered on, with a repetition every 30 minutes.	On / Off

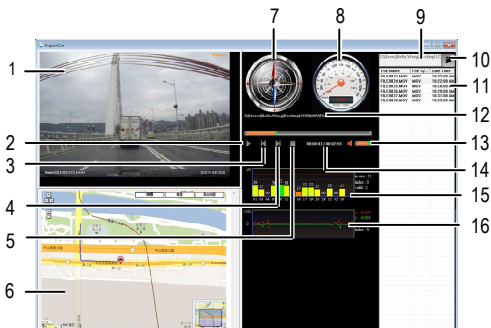
Menu option	Description	Available option
Headlight Warning	When Headlight Warning is activated, camcorder will issue an audible alert and screen message reminding that insufficient brightness is sensed on the recording face.	On / Off
LDWS	Once your car's location is determined by GPS and the LDWS function is enabled, this camcorder produces audible alert and screen message when you drive off of or change lanes at speeds over 70 km/h (43 mph).	On / Off
FCWS	When FCWS is activated after satellite positioning, camcorder will issue audible alert and screen message when vehicle speed is above 60 km/h (37 mph) and the distance with the front vehicle is less than 20m.	On / Off
FCMD	If FCMD function is enabled, when the front car moves and you don't start to drive forward, the camcorder will issue audible alert and screen message.	On / Off
File Deletion	Delete the file(s).	Video Emergency Picture
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.	60Hz / 50Hz

Menu option	Description	Available option
Format	Format the memory card inserted in the equipment. All the files in the card will be erased.	Yes / No
Default	The system reverts to the default setting.	Yes / No
Firmware Version	Indicates the current firmware version.	

5 SuperCar

Please click below link to download and install specific video/GPS player software Super Car.

https://ftp.digilife.com.tw/SuperCar/SuperCar_HP_v2.0.3.zip



No.	Item
1	Playback image
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	Playback Duration / Total Duration
15	GPS reception (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 of camera (MOV) and GPS/G-Sensor files (NMEA) must be stored in the same folder before starting the playback.
3. The SuperCar software is only applicable to Windows operating system.

6 Specifications

Item	Description
Image sensor	1/2.7" CMOS sensor
Effective pixels	1920 (H) x 1080 (V)
Storage media	Supports Micro SDHC, up to 32GB class 10 speed or greater
LCD display	2" LCD color TFT
Lens	Wide Angle Fixed Focus lens Aperture: Up to F2.2
Focus range	1.5m~Infinity
Satellite System	GPS
Video	Resolution: 1080P/ 30 fps 、 1080P/ 27.5 fps 、 720P/ 30 fps 、 720P/ 55 fps
	Format: MOV
Still image (Photograph)	Resolution: depends on video resolution setting
	Format: DCF (JPG)
Shutter	Electronic shutter
G-Sensor	3-Axis G-Force sensor
ISO	Auto
White Balance	Auto
Microphone	Built-in
Speaker	Built-in
Interface	Mini USB

Item	Description
Power	Super Capacitor
Operating Temperature	0° ~ 45° C
Operating Humidity	20 ~ 70% RH
Storage Temperature	-20° ~ 70° C
Dimensions	58 x 43.5 x 45.3 mm
Weight	Approx. 2g



f650g

**行車記錄器 (GPS)
使用說明書**

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有關本手冊

本文件之內容只供參考，並得以隨時變更不需要事先通知。本公司已盡全力確保本使用者手冊正確與完整。但有任何錯誤或遺漏概不負責。製造廠保留不需事先通知，逕自變更技術規格之權利。

Regulatory notices

This document provides country- and region-specific non-wireless and wireless regulatory notices and compliance information for your product. Some of these notices may not apply to your product.

禁止同置

本產品及其天線不得在同一地點與任何其他天線、發射器同置或共同操作。

WEEE 通知

歐盟有關使用者處分私人家庭廢電子與電機產品和/或電池之指

令



WEEE



Battery

產品上或包裝上有此一符號，表示此產品不能做為家庭廢棄物處理。您必須依據相關之電子與電機產品和/或電池回收辦法之規定，處分您的廢電子與電機產品和/或電池。有關這類產品和/或電池的回收細節，請聯絡當地的市政府、您購買該產品的商店或您的家庭廢棄物處理公司。材料之回收有助於保護自然資源及確保能以保護人類健康與環境之方式回收。

CE Regulatory Notice

The product herewith complies with the requirements of the Low Voltage Directive 2014/35/EU, the EMC Directive 2014/30/EU, the RED-Directive 2014/53/EU and the RoHS Directive 2011/65/EU.

安裝須知

1. 請衡量前擋風玻璃的可視面積，以不遮擋駕駛前方的視野為原則，將本設備安裝在汽車後視鏡的正下方（前擋風玻璃中央偏上方的位置）。並建議天空與地面佔據錄影畫面各**50%**，固定托架後再調整設備使車道對齊圖示與行駛車道對齊。正確的安裝可使設備發揮最大功效，並提升車道偏移偵測的準確性。
2. 確定鏡頭是在擋風玻璃兩刷的範圍內，確保視野良好，即使雨天依然清晰。
3. 不要用手指碰觸鏡頭。手指上的油垢可能會留在鏡頭上，導致影片或照片不清楚。請定期清潔鏡頭。
4. 請勿將本設備安裝在深色車窗上，否則將使隔熱紙受損。
5. 安裝設備之前請確認安裝位置不會受有色車窗阻礙。
6. 本產品僅適用於淺色擋風玻璃或貼附淺色隔熱紙的車窗，若使用深色車窗或車窗貼附有色隔熱紙，將影響錄影成像的效果。
7. 本設備僅適用產品隨附之電源連接器，請勿使用其他廠牌以免設備燒毀。
8. **隨貨附贈兩種托架，吸盤式托架是方便型暫時性使用，吸力會因時間耗損而須重新更換；黏貼式托架則為一次性長時間使用。若您需要永久性安裝，我們強烈建議您使用黏貼式托架。請將托架安裝在最佳視野。請勿安裝托架在可能干擾您行車視野或是影響您行車安全的位置。惠普公司及我們授權銷售的公司將不負因不當托架安裝或是吸盤式托架失去吸力掉落造成的任何損失或資料流失之責任。**

安全注意事項

- ❖ 使用者須遵守當地法律並以行車安全為優先考量，請勿於行車中操作本設備。
- ❖ 使用設備前請先確認時區、日期與時間已設定完成。
- ❖ **SuperCar** 軟體請在電子地圖正常運作的環境下使用。
- ❖ 本設備內建的韌體功能僅供使用者參考，道路駕駛請依實際路況作判斷。
- ❖ **GPS** 之定位結果僅供使用者參考，不應影響實際之駕駛行為，本設備無法確保其定位正確性。
- ❖ **GPS** 之定位正確性可能有所差異，包括受天候及使用地點（高樓/ 隧道 / 地下道 / 樹林）所影響，且 **GPS** 訊號無法穿透建築物及含金屬成份之汽車隔熱紙。
- ❖ **GPS** 收訊品質與個別硬體特性有所不同，本設備無法判斷因硬體差異所造成的不同定位結果。
- ❖ 本設備顯示之時速和方位等數值會因外在環境因素影響而有所誤差，僅供使用者參考。
- ❖ 本產品僅供使用於非商業用途，適用法律允許的最大限度內。本公司對於使用本產品所造成的損失不承擔任何責任。
- ❖ 本產品在使用時會略微變熱，純屬正常現象不代表故障。
- ❖ 不正確地使用本產品或操作不當導致設備或配件損壞，您的保固將會無效。
- ❖ **HP Inc.**對於操作中任何資料／內容的損失概不負責。

開始使用本產品視為同意以上聲明事項。

1 導論





謝謝惠顧此套先進的行車記錄器(以下簡稱“設備”)。本產品專用於行車時之即時錄影。

1.1 功能

- 超高畫質 1920*1080
- 2.0" TFT-LCD 彩色螢幕
- 150 度廣角鏡頭
- 碰撞偵測，設備感測到碰撞即自動觸發緊急錄影
- 停車監控
- 多功能行車安全提醒

1.2 包裝內容

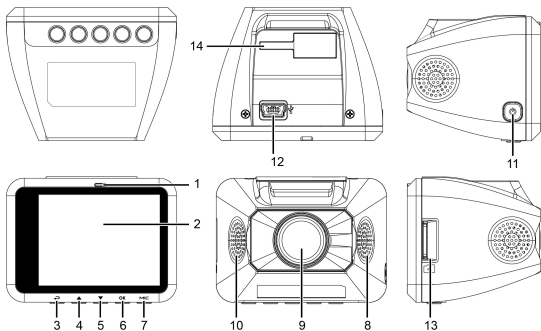
以下為包裝內容物。若有任何遺漏或損壞項目，請立即聯絡您的經銷商。

行車記錄器	托架 X 2	使用手冊	電源連接器
			

備註：

若您需要永久性安裝，我們強烈建議您使用黏貼式托架。請勿安裝托架在可能干擾您行車視野或是影響您行車安全的位置。惠普公司及我們授權銷售的公司將不負因不當托架安裝或是托架掉落造成的任何損失或資料流失之責任。

1.3 產品概要



編號	項目
1	LED 指示燈
2	LCD 彩色螢幕
3	目錄 / 返回按鍵 (☰ / ↶)
4	播放 / 向上按鍵 (▶ / ▲)
5	影片截圖 / 向下按鍵 (📷 / ▼)

編號	項目
8	喇叭
9	廣角鏡頭
10	麥克風
11	電源開關
12	電源連接埠
13	記憶卡插槽

6	緊急錄影 / 確認按鍵 (⚠ / OK)	14	托架插孔
7	錄音開關按鍵 (MIC)		

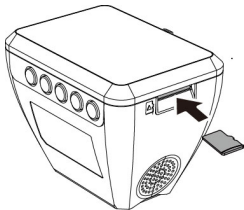
備註：使用設備時請依據螢幕顯示的圖示，操作相應的按鍵 (3~7)。

2. 開始

2.1 使用儲存媒體

2.1.1 插入記憶卡

將記憶卡之金色接腳面朝前，以及設備螢幕面朝前，如圖示插入記憶卡：



2.1.2 取出記憶卡

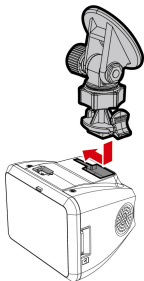
若設備在開機狀態請先關閉電源，並等待設備完成關機程序後再取出記憶卡。

- 註： 1.設備在開機狀態時，不要取出或插入記憶卡，以免損壞記憶卡。
2. 限使用速度等級 10 以上，且記憶體容量 8 GB 以上的 micro SD 卡 (最高支援 32GB)。
3. 使用前請先格式化 micro SD 卡。
4. 請定期格式化記憶卡(建議一個月一次)。

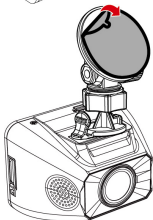
2.2 安裝於車內

2.2.1 固定設備在擋風玻璃上

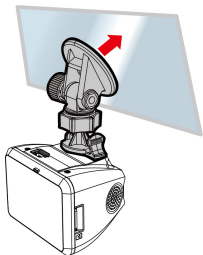
1. 將托架卡榫推入設備上方的托架插孔中，直到聽到咔嗒聲固定。



2. 撕除托架底部的離型紙。

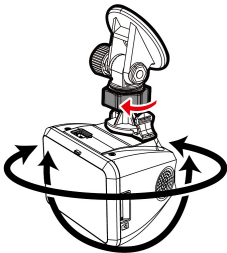


3. 將托架黏貼於擋風玻璃上，輕壓並確認托架已固定。



2.2.2 調整設備

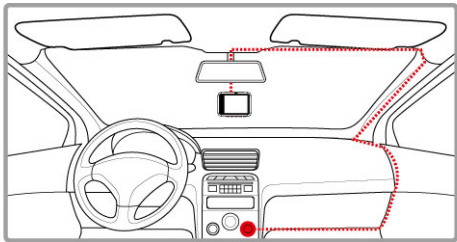
1. 鬆開旋鈕，將設備垂直或水平方向調整。



2. 鎖緊旋鈕，並確認設備已牢牢固定。

2.3 連接電源

限使用本產品包裝內附的電源供應器供電給行車記錄器。



1. 電源供應器的一端連接到記錄器的 **USB 埠**。電源連接孔輸入直流電壓 **5V/1A**。
2. 將電源供應器的另一端插到車內的點煙器插孔內。車輛的引擎一旦發動，記錄器電源自動打開。車充輸入直流電壓 **12/24V**。

2.4 LED 指示燈

狀態說明	LED 指示燈顏色
未開機 插入外部電源	紅燈
開機 待機中	綠燈
錄影中 / 錄影中且螢幕關閉	紅燈閃爍

2.5 設備開/關

2.5.1 自動開/關

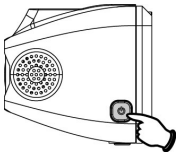
汽車引擎發動之後，等待數秒自動為行車記錄器充電，數秒後將自動開機並啟動錄影。汽車引擎一旦熄火，設備會自動儲存記錄並關閉電源。

註：本行車記錄器使用超級電容，因此汽車引擎發動之後，需等待數秒為內建超級電容充電，數秒後記錄器便會自動開機並啟動錄影。

2.5.2 手動開/關

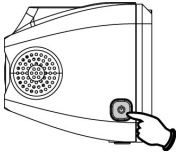
按下**電源開關**按鍵以手動方式打開電源。

按住**電源開關**按鍵至少 2 秒關掉電源。



2.5.3 重置

按住**電源開關**按鍵至少 8 秒重新設定。









2.6 首次設定

在使用設備之前，我們建議先設定正確的**時區**、**日期與時間**。

註：請注意若在錄影期間按  按鍵，系統將會停止錄影並進入 OSD 目錄。請先確認錄影可以中止再操作目錄選單。

2.6.1 時區設定

設定正確的時區，其方式如下：

1. 按  按鍵，進入 OSD 目錄。
2. 按  按鍵選擇**時區設定**，再按  按鍵進入功能選單。
3. 按  設定目前所在的時區，再按  按鍵完成設定。
4. 按  返回錄影畫面。






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
Ansydr	+12	Casablanca *	0	Kabul **	+4	Moscow	+4	Sofia *	+2
Anchorage *	-9	Chicago *	-6	Karachi	+5	Humbai **	+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	Talinn *	+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	Roykjavik	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		

註：

- 1.若開啟**衛星時間同步**，當衛星定位完成時設備時間會依**時區設定**的衛星時間自動進行校正。
2. 若衛星無法定位完成，設備時間會依使用者自訂時間為基準。

2.6.2 時間設定

設定正確的日期與時間，其方式如下：

1. 按  按鍵，進入 OSD 目錄。
2. 按  按鍵選擇 **時間設定**，再按  按鍵進入功能選單。
3. 按  按鍵調整數值，再按  按鍵切換到下一個欄位。
4. 重複步驟 3，直到日期與時間完成設定。



註：為確保錄影檔案時間的正確性，當超過7天未使用設備時，需重新設定日期與時間。

3 使用行車記錄器

3.1 自動錄影

汽車引擎發動之後，等待數秒自動為行車記錄器充電，數秒後將自動開機並啟動錄影。

當引擎熄火時設備會自動停止錄影。








註：

1. 某些汽車的車用電源並不會隨著汽車引擎的發動/熄火而自動開啟/關閉電源，若設備無法隨汽車引擎自動開啟與關閉電源時，請以手動方式將電源連接器與車用電源連接，再開啟設備電源，或是以手動方式關閉設備的電源，再將電源連接器從車用電源卸除。
2. 可設定每個影片檔案錄影的時長為 30秒, 1 或 3 分鐘。
3. 設備會儲存影片或照片於記憶卡中，若記憶卡空間已滿時，循環錄影會將一般錄影中最舊的檔案覆蓋掉。
4. 本行車記錄器使用超級電容，因此汽車引擎發動之後，需等待數秒為內建超級電容充電，數秒後記錄器便會自動開機並啟動錄影。

3.1.1 錄影畫面



編號	圖示	項目	說明
1		錄影時長	指示影片當前的錄影時長。
2		日期與時間	指示當前拍攝的日期與時間。
3		目錄	在錄影期間按 按鍵可進入 OSD 目錄。
4		新增自訂測速點	在錄影期間按 按鍵可新增自訂的測速點。
5		影片截圖	在錄影期間按 按鍵可擷取前鏡頭的錄影畫面。

編號	圖示	項目	說明
6		緊急錄影	在錄影期間按  按鍵可進入緊急錄影模式。
7		錄音開關	開啟或關閉錄音功能。
8		影像解析度圖示	指示當前的影像解析度。
9		聲音記錄圖示	指示聲音記錄設定為關閉的狀態，拍攝影片時將不會錄音。
10		衛星定位圖示	指示衛星定位的信號狀態。若圖示顯示X，則表示設備無法完成衛星定位。
11		插電圖示	指示設備插電使用中。

3.1.2 緊急錄影

啟動緊急錄影，其方式如下：

1. 在錄影期間按 **OK** 按鈕將會進入緊急錄影模式，並於螢幕左上角顯示 "**緊急錄影**" 的字樣。在緊急錄影模式中錄製的影片會被保護起來。
2. 緊急錄影的時長同錄影間隔的設定。當緊急錄影達設定的時間，系統會回復到一般的錄影模式。




註：

- 1.若啟動**碰撞偵測**功能並偵測到碰撞，設備會自動進入緊急錄影模式。
- 2.此時會建立新的緊急錄影檔，並且儲存在緊急錄影資料夾，此檔案會受到保護避免被一般循環錄影所覆寫。緊急錄影資料夾約占**40%**的記憶卡容量。例如，容量**8GB**的記憶卡，可以儲存大約**3.2GB**的緊急錄影檔。緊急錄影檔已滿時，當新的緊急錄影檔建立，最舊的緊急錄影檔會被自動刪除。

3.2 自訂測速點管理

您可以使用本設備自行設定測速照相點。



1. 當衛星定位完成後，在錄影期間按  按鍵可新增自訂的測速照相點。
2. 本設備最多可新增 50 筆自訂測速點，當超過 50 筆自訂測速點時，螢幕會顯示 "**測速點已滿**"。

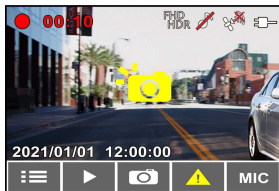
註：

若設備新增的自訂測速點已滿，請至 **自訂測速點管理** 功能選單中選擇 **刪除最後一筆** 或 **刪除全部測速點**。請注意一旦執行 **刪除全部測速點**，系統會將所有已建立的自訂測速點全部刪除，故執行前請確認是否要將自訂測速點重新設定。

3.3 錄影中拍照

您可以使用本設備拍攝現場。

1. 請於錄影期間按  按鍵擷取前鏡頭的錄影畫面。
2. 當螢幕中央顯示  圖示，表示前鏡頭的錄影畫面已擷取完成。



註：

1. 錄影中擷取的照片尺寸取決於影像解析度的設定。
2. 行駛中若執行錄影中拍照，其照片的清晰度可能會受限於標的物的移動速度與外在環境光源的變化，因此拍照功能較適用於事故發生時或路口紅綠燈停駛時，採用靜態的方式拍照存查。

3.4 行車安全

下列的行車安全功能僅提供參考，道路駕駛請依實際路況作判斷。

註:

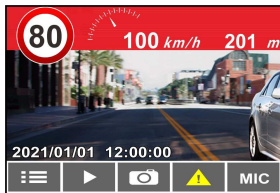
- 1.行車安全的各項功能無法同時觸發兩項以上的警示，若設備已觸發語音與警示畫面，在當下警示未停止之前，其他的語音與警示畫面會被忽略。
- 2.設備必須在衛星定位已完成的狀態下才能作用**測速照相提示**、**自訂測速點管理**、**自訂限速提示**、**車道偏移偵測**、**前車車距偵測**與**前車起步提醒**，使用前請確認設備的衛星定位已完成。
- 3.在陰雨、夜晚或光線不足的環境下啟用**車道偏移偵測**、**前車車距偵測**與**前車起步提醒**等功能，設備可能會發生誤判，道路駕駛請依實際路況作判斷。




3.4.1 測速照相提示

若啟用**測速照相提示**，當衛星定位完成且車輛接近測速照相機時，設備會發出語音與警示畫面提醒。

啟動測速照相提示，其方式如下：

1. 按  按鍵，進入 OSD 目錄。
2. 按  按鍵選擇 **測速照相提示**，再按  按鍵進入功能選單。



- 按  按鍵選擇“開”，再按  按鍵啟用該功能。
- 按  返回錄影畫面。
- 若警示畫面顯示為紅色，表示行車時速已超過該路段的限速，提醒道路駕駛應減速慢行。

註：

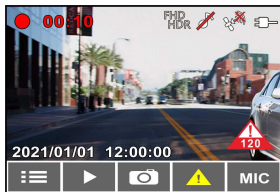
測速照相提示的功能必須具有該國或該地區的測速照相圖資，若至其他國家或地區使用，可能會造成此功能無法作用。本產品不保證測速照相的圖資包含您所在的國家，若此功能無法使用請與當地經銷商確認。


3.4.2 自訂限速提示

若啟用**自訂限速提示**，當衛星定位完成且車速超過設定值，設備會發出警示音與警示畫面提醒。

設定自訂限速提示，其方式如下：

- 按  按鍵，進入 OSD 目錄。
- 按  按鍵選擇**自訂限速提示**，再按  按鍵進入功能選單。
- 按  按鍵自訂本設備發出警示的限速 [關 / 50 ~ 200 km/h (30~125 mph)]，再按  按鍵完成設定。









4. 按  返回錄影畫面。
5. 行駛中，若出現警示畫面及警示音，表示行車時速已超過自訂的限速，提醒道路駕駛應減速慢行。

3.4.3 駕駛休息提醒

若啟用**駕駛休息提醒**，當開機錄影達 1 小時設備會發出警示音與警示畫面提醒，並每隔三十分鐘重複警示。

啟動駕駛休息提醒，其方式如下：







1. 按  按鍵，進入 OSD 目錄。
2. 按  按鍵選擇**駕駛休息提醒**，再按  按鍵進入功能選單。
3. 按  按鍵選擇“開”，再按  按鍵啟用該功能。
4. 按  返回錄影畫面。
5. 當**駕駛休息提醒**觸發時，設備會發出警示音與警示畫面提醒。




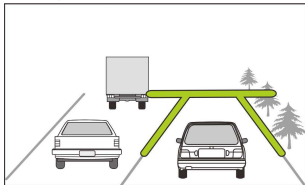
3.4.4 車道偏移偵測

若啟用**車道偏移偵測**，當衛星定位完成後，行車時速達 70 km/h (43 mph) 以上且偏離行駛車道或變換車道時，設備會發出語音與警示畫面提醒。

設定車道偏移偵測，其方式如下：

1. 按  按鍵，進入 OSD 目錄。
2. 按  按鍵選擇**車道偏移偵測**，再按  按鍵進入功能選單。
3. 按  按鍵選擇“開”，再按  按鍵啟用該功能。
4. 按  返回錄影畫面。
5. 啟用**車道偏移偵測**後，螢幕中央會顯示車道對齊圖示

。請調整設備使車道對齊圖示的水平線與路面視平線水平重疊；車道對齊圖示的兩側斜線居中於行駛車道。



6. 當**車道偏移偵測**觸發時，設備會發出警示音與警示畫面提醒。









註：

- 1.請衡量前擋風玻璃的可視面積，以不遮擋駕駛前方的視野為原則，將本設備安裝在汽車後視鏡的正下方(前擋風玻璃中央偏上方的位置)。並建議天空與地面佔據錄影畫面各50%，固定托架後再調整設備使車道對齊圖示與行駛車道對齊。正確的安裝可使設備發揮最大功效，並提升車道偏移偵測的準確性。
- 2.請確認車道對齊圖示不會被其他的物體遮蔽(如：引擎蓋)。若車道對齊圖示的端點被遮蔽，將會造成系統誤判。

3.4.5 前車車距偵測

若啟用**前車車距偵測**，當衛星定位完成後行車時速達 60 km/h (37 mph) 以上且與前方車距低於 20 公尺時，設備會發出語音與警示畫面提醒。若設備未完成衛星定位，且與前方車距低於 20 公尺時，亦會發出警示音與警示畫面提醒。

設定前車車距偵測，其方式如下：







1. 按  按鍵，進入 OSD 目錄。
2. 按  按鍵選擇**前車車距偵測**，再按  按鍵進入功能選單。
3. 按  按鍵選擇“開”，再按  按鍵啟用該功能。
4. 按  返回錄影畫面。
5. 當**前車車距偵測**觸發時，設備會發出語音與警示畫面提醒。



3.4.6 大燈開燈提醒

若啟用**大燈開燈提醒**，當設備偵測到前鏡頭錄影畫面的亮度不足時（例如：車輛行駛於陰雨、夜晚、地下室、停車場、隧道...等光線不足的環境），會發出語音與警示畫面提醒。

啟動大燈開燈提醒，其方式如下：







1. 按  按鍵，進入 OSD 目錄。
2. 按  按鍵選擇**大燈開燈提醒**，再按  按鍵進入功能選單。
3. 按  按鍵選擇“開”，再按  按鍵啟用該功能。
4. 按  返回錄影畫面。
5. 當**大燈開燈提醒**觸發時，設備會發出語音與警示畫面提醒。



3.4.7 前車起步提醒

若啟用**前車起步提醒**，當前方車輛駛離而本車輛沒有起步時，設備會發出語音與警示畫面提醒。

設定前車起步提醒，其方式如下：

1. 按  按鍵，進入 OSD 目錄。
2. 按  按鍵選擇**前車起步提醒**，再按  按鍵進入功能選單。
3. 按  按鍵選擇“開”，再按  按鍵啟用該功能。
4. 按  返回錄影畫面。
5. 當**前車起步提醒**觸發時，設備會發出語音與警示畫面提醒。









註：

設備係以偵測鏡頭前的影像變化作為前車起步提醒的判定，因此若車輛處於靜止的狀態而前方有人員移動時，設備可能會發生誤判，道路駕駛請依實際路況作判斷。

3.5 停車模式

若啟用**停車錄影**、**移動與碰撞偵測**或**縮時錄影**，可透過本設備監控車輛停置時的狀況。

啟用停車模式之前，請您經由專門店安裝ACC常時電源線。

1. 按  按鍵，進入 OSD 目錄。
2. 按  按鍵選擇**停車模式**，再按  按鍵進入功能選單。
3. 按  按鍵設置停車模式 (**停車錄影/ 移動與碰撞偵測/ 縮時錄影/ 關**)，再按  按鍵完成設置。
4. 按  返回錄影畫面。

註: 本包裝不包含ACC常時電源線，如欲購買，請洽經銷商。

3.5.1 停車錄影

- 一般錄影狀態下，長按電源鍵 3秒，螢幕會出現“**按OK鍵將關機或10秒後進入停車錄影**”。請等待10秒，記錄器會自動進入停車錄影模式。此時，記錄器會暫時關閉螢幕，處於持續錄影狀態，但遇到碰撞或震動，會啟動緊急錄影。
- **[解除]** 若要解除此模式，按任意鍵喚醒螢幕，再按一次任意鍵返回一般錄影。

註:

- 1.此模式的錄影檔案與一般循環錄影模式相同,會儲存在一般錄影資料夾。緊急錄影則儲存於緊急錄影資料夾。
2. 檔案大小依錄影間隔設定而定。

3.5.2 移動與碰撞偵測

- 一般錄影狀態下，長按電源鍵 3秒，螢幕會出現“**按OK鍵將關機或10秒後進入移動與碰撞偵測**”。請等待10秒，記錄器會自動進入**移動與碰撞偵測**模式。此時，記錄器會暫時關閉螢幕，處於待機偵測狀態。遇到鏡頭前方有物體移動或碰撞震動，會啟動錄影。
- **[解除]** 若要解除此模式，按任意鍵喚醒螢幕，再按一次任意鍵返回一般錄影。

注:

1. 此模式的錄影檔案會儲存在緊急錄影資料夾。
2. 在此模式下，啟動錄影10秒鐘儲存一個檔案，若記錄器仍偵測到異常會以 10 秒鐘為單位持續錄影，單筆錄像最長可達 1 分鐘。

3.5.3 縮時錄影







- 一般錄影狀態下，長按電源鍵 3秒，螢幕會出現“**按OK鍵將關機或10秒後進入縮時錄影**”。請等待10秒，記錄器會自動進入縮時錄影。此時，記錄器會暫時關閉螢幕，處於縮時錄影狀態。
- **[解除]** 若要解除此模式，按任意鍵喚醒螢幕，再按一次任意鍵返回一般錄影。

注:

1. 檔案儲存於一般錄影的資料夾。
2. 在此模式下，記錄器是以一秒鐘一幀的格式錄影，例如，30 分鐘實際錄下來的檔案時長是 1 分鐘。
3. 檔案大小依錄影間隔設定而定。

3.6 碰撞偵測





若啟用**碰撞偵測**，當設備感測到碰撞時會自動啟動緊急錄影。碰撞偵測預設為中靈敏度，若要變更碰撞偵測的設定，請依循以下步驟：

1. 按  按鍵，進入 OSD 目錄。
2. 按  按鍵選擇**碰撞偵測**，再按  按鍵進入功能選單。
3. 按  按鍵設定本設備感測碰撞的靈敏度（高靈敏度 / 中靈敏度 / 低靈敏度 / 關閉），再按  按鍵進入功能選單。
4. 按  返回錄影畫面。

3.7 播放影片及照片




1. 如果正在錄影中，按  /  按鍵停止錄影並進入主選單。
2. 按  或  按鍵選擇**播放**並按下  按鍵。
3. 按  或  按鍵選擇**錄影**、**緊急錄影**或**照片**並按下  按鍵。






4. 按  或  按鍵選擇欲播放的影片或照片檔案並按下  按鍵確認播放。或是按  切換前後鏡頭錄影檔案。

3.8 播放畫面



號碼	項目	說明
1	檔案名稱	檔案名稱
2	已播放時間/ 錄影時長	表示影片當下已播放時長/ 總錄影時間
3	返回按鍵	按  按鍵返回影片或照片的預覽畫面，重複按  按鍵可返回錄影畫面。
4	上一個檔案按鍵	按  按鍵可切換到上一個檔案。影片播放時可快退影片。




5	下一個檔案按鍵	按  按鍵可切換到下一個檔案。影片播放時可快進影片。
6	播放/ 暫停按鍵	按  按鍵播放或暫停影片。
7	鏡頭影片 切換按鍵	按  按鍵可切換具有雙鏡頭記錄的影片檔案。(後置高清鏡頭為選配。)
8	時間標記	日期及時間標記
9	檔案/總數	當下檔案序數/檔案總數

3.9 刪除檔案

進行下列步驟刪除檔案：

1. 如果正在錄影中，按下  按鍵停止錄影並進入設定選單。
2. 按  或  按鍵選擇 **檔案刪除** 選項並按下  按鍵。
3. 按  或  按鍵選擇欲刪除的資料夾並按下  按鍵。
出現以下選擇，按下  按鍵確認。

項目	說明
刪除單檔	刪除所選的檔案。
刪除所有檔案	刪除此資料夾所有檔案。

4. 按  或  按鍵選擇要刪除的影片或照片檔案並按下  按鍵確認刪除。







備註：

刪除的檔案不能復原。刪除前確定想保存的檔案有備份。

4 調整設定

4.1 使用目錄

您可以透過螢幕顯示的目錄自訂常規設定。

1. 按  按鍵，進入 OSD 目錄。
2. 按  按鍵選擇目錄選項，再按  按鍵進入功能選單。
3. 按  按鍵選擇或調整數值，再按  按鍵完成設定。
4. 按  返回錄影畫面。

4.2 目錄選項

主目錄與目錄選項之詳細說明，請參考下表。

目錄選項	說明	可用選項
播放	選取您要檢視的檔案類別。	錄影 緊急錄影 照片
衛星狀態	顯示目前衛星訊號接收的狀態。	
衛星時間同步	若啟用衛星時間同步，系統將依據您設定的時區作衛星時間的同步。開啟此功能後系統將優先顯示衛星時間，並且無法手動變更。	開 / 關
速度單位	設定系統顯示的速度單位。	KM/H / MPH

目錄選項	說明	可用選項
測速照相提示	若啟用測速照相提示，當衛星定位完成且車輛接近測速照相機時，設備會發出語音與警示畫面提醒。	開 / 關
自訂測速點管理	<p>新增自訂測速點：衛星定位後手動新增自訂的測速照相點，可新增 50 筆測速點至內建系統中。</p> <p>刪除最後一筆：刪除最後一筆自訂測速點。</p> <p>刪除全部測速點：刪除所有自訂測速點。</p>	新增自訂測速點 / 刪除最後一筆 / 刪除全部測速點
自訂限速提示	自訂車速上限，當車速超過設定值設備會發出警示音與警示畫面提醒。	按 \triangle/∇ 按鍵設定車速上限，可自訂為關或 50 ~ 200 km/h (30 ~ 125 mph) 之間
設定時區	設定所在時區。	按 \triangle/∇ 按鍵設定衛星時間，可自訂於 GMT -12:00 ~ GMT +14:00 之間
時間設定	設定日期與時間。	按 \triangle/∇ 按鍵調整數值，再按 \odot 按鍵切換欄位與確認
語言設定	設定系統語言。	依商品實際出貨地區
時間標記	若啟用時間標記，拍攝下來的影片或照片將會顯示日期與時間。	開 / 關

目錄選項	說明	可用選項
影像解析度	設定影片的影像解析度。	1920x1080 30fps HDR 1920x1080 27.5fps HDR 1280x720 30fps HDR 1280x720 27.5fps HDR
EV	設定曝光補償。	按 \triangle/∇ 按鍵設定曝光值，可自訂於 -2 ~ +2 之間
螢幕設定	設定螢幕關閉的時間。在待機或錄影中達設定時間未操作，設備會暫時關閉螢幕，按任意操作按鍵即可開啟螢幕(螢幕關閉時不影響錄影)。	開 / 7秒鐘關閉 / 1分鐘關閉 / 3分鐘關閉
聲音記錄	設定錄影時是否錄音。	開 / 關
音效設定	設定開機音效及按鍵音	開 / 關
音量	設定提示音的音量。	按 \triangle/∇ 按鍵設定音量，可自訂於 0 ~ 10 之間
錄影間隔	設備依循您所設定的影片長度將錄製的影片儲存為各個檔案。	30秒 / 1分鐘 / 3分鐘
停車模式	若啟用停車模式其中之一，記錄器在開機狀態下斷開外接電源，10 秒後會自動進入停車模式。	關 / 停車錄影 / 移動與碰撞偵測 / 縮時錄影

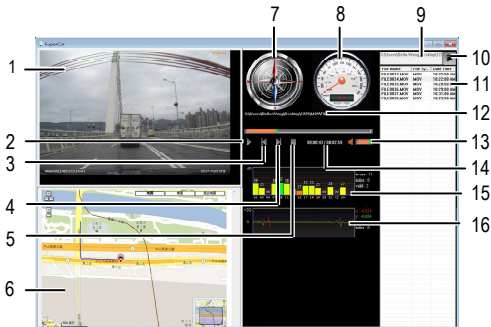
目錄選項	說明	可用選項
碰撞偵測	若啟用碰撞偵測，當設備感測到碰撞時，設備會自動啟動緊急錄影。	高靈敏度 / 中靈敏度 / 低靈敏度 / 關
駕駛休息提醒	若啟用駕駛休息提醒，當開機達 1 小時設備會發出警示音與警示畫面提醒，並每隔三十分鐘重複警示。	開 / 關
大燈開燈提醒	若啟用大燈開燈提醒，當設備偵測到前鏡頭錄影畫面的亮度不足時，會發出警示音與警示畫面提醒。	開 / 關
車道偏移偵測	若啟用車道偏移偵測，當衛星定位完成後，行車時速達 70 km/h (43 mph) 以上且偏離行駛車道或變換車道時，設備會發出警示音與警示畫面提醒。	開 / 關
前車車距偵測	若啟用前車車距偵測，當衛星定位完成後，行車時速達 60 km/h (37 mph) 以上且與前方車距低於 20 公尺時，設備會發出警示音與警示畫面提醒。	開 / 關
前車起步提醒	若啟用前車起步提醒，當前方車輛駛離而本車輛沒有起步時，設備會發出警示音與警示畫面提醒。	開 / 關
檔案刪除	刪除檔案。	錄影 緊急錄影 照片

目錄選項	說明	可用選項
電源頻率	家用電源規格按地區不同，建議參考各國電壓頻率表作設定。	60Hz / 50Hz
格式化	將設備中的記憶卡格式化，所有的檔案都將喪失。	是 / 否
回復原廠設定	將系統回復到出廠的設定。	是 / 否
韌體版本	顯示當前韌體版本。	

5 SuperCar

請點選此連結

https://ftp.digilife.com.tw/SuperCar/SuperCar_HP_v2.0.3.zip 下載
專屬影片/GPS播放器SuperCar 軟體。



編號	項目
1	影片播放器
2	播放 / 暫停
3	上一個
4	下一個
5	停止
6	電子地圖
7	指北針
8	時速表

編號	項目
9	檔案路徑
10	檔案瀏覽器
11	檔案列表
12	檔案名稱
13	音量
14	播放時長 / 總時長
15	衛星訊號強度 (SNR)
16	碰撞感測器

備註：

- 影片播放前須確認已連接網際網路，行車路徑才能於電子地圖顯示。
- 前鏡頭的影片檔案(MOV)與GPS/G-Sensor檔案(NMEA)須儲存在同一個資料夾中才可同步播放。
- SuperCar 軟體僅適用於 Windows作業系統的電腦，Mac作業系統請於內建之 Mac App Store 搜尋 "SuperCar"  應用程式，並完成安裝程序。

6 規格

項目	說明
影像感應器	1/2.7" CMOS 感應器
有效畫素	1920 (H) x 1080 (V)
儲存媒體	支援 class 10 以上速度的 micro SD 卡。
LCD 顯示器	2" LCD 彩色 TFT
鏡頭	廣角定焦鏡頭 光圈：達 F2.2
對焦範圍	1.5m~無限遠
衛星系統	GPS
影片檔	影像解析度：1080P/ 30 fps、1080P/ 27.5 fps、 720P/ 30 fps、720P/ 27.5 fps
	格式：MOV
靜止影像 (照片)	照片解析度依影像解析度設定為主
	格式：DCF (JPG)
快門	電動快門
重力感應器	3 軸重力感應器
ISO	自動
白平衡	自動

項目	說明
麥克風	內建
喇叭	內建
界面	Mini USB
電源	超級電容
操作溫度	0° ~ 45° C
操作溼度	20 ~ 70% RH
儲存溫度	-20° ~ 70° C
尺寸	58 x 43.5 x 45.3 mm
重量	約 72 克

7 限用物質含有情況說明書

設備名稱：行車記錄器		型號（型式）：f650g				
Equipment name: Car Camcorder		Type designation (Type): f650g				
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr+6)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
主機外殼 及元件	○	○	○	○	○	○
主機內部 電子元件	○	○	○	○	○	○
充電器外 殼 及元件	○	○	○	○	○	○
充電器內 部電子元 件	○	○	○	○	○	○
<p>備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。</p> <p>Note 1 : “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.</p> <p>備考2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。</p> <p>Note 2 : “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>備考3. “-” 係指該項限用物質為排除項目。</p> <p>Note 3 : The “-” indicates that the restricted substance corresponds to the exemption.</p>						