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# OP/A

VICOVATION



**STARVIS**



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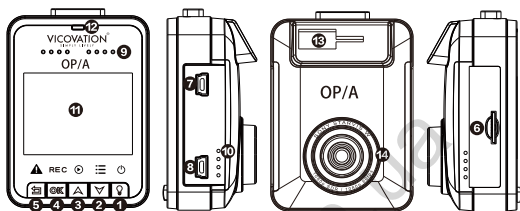
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# Vico-Opia1 WiFi Installation Guide

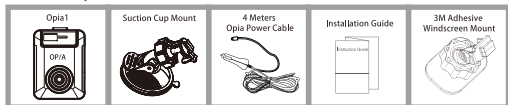
Thank you for choosing Vico-Opia1 DashCam. To ensure safety, please read this manual carefully before installation.

## Vico-Opia1 Exterior Overview :



- |   |  |
|---|--|
| 1. Power button<br>(Hold for 3 seconds to turn off) | 9. Speaker/Mic   |
| 2. Down/Setting Menu                                | 10. Ventilation Holes  |
| 3. Up/Playback                                      | 11. 2.0" TFT LCD Display   |
| 4. Start/Stop Recording/Confirm                     | 12. LED indicator  |
| 5. Emergency Recording/Return                       | (Red=Recording, Green=Stand by,<br>Green Flashing=SD Card Error) |
| 6. Micro SD card slot                               | 13. Mount Socket   |
| 7. USB/Power Port                                   | 14. Lens   |
| 8. External GPS socket                              |  |

## Vico-Opia1 Accessories:

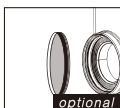


● Warranty card

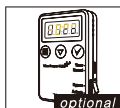
Optional :



External GPS Mouse



CPL Filter & Quick Release Mount



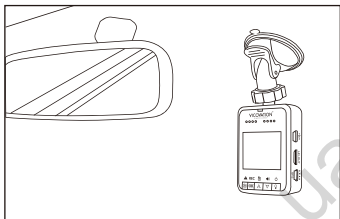
Vico-Power PLUS

## Installation

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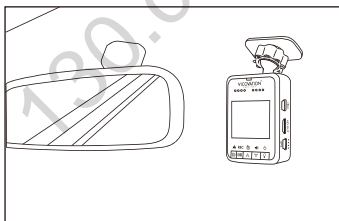
Opia1 package contains with 2 brackets, including 3M Sticker Bracket and Suction Bracket.

### Opia1 with Suction Bracket



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### Opia1 with Sticker Bracket (3M Adhesive Mount)



# OpiaViewer APP



Please Search/Download/install APP: **OpiaViewer**  
from App Store (iOS) or Google Play (Android)

Special Notice: OpiaViewer Support Smartphone iOS 8.0 (or Higher)  
Android 4.2 (or Higher). Please Notice the extra charge by carriers  
when download App via mobile network (3G/4G)

Default Opia1 SSID: **Vico-Opia\_XXXXXXXXXX**  
Default Password: **12345678**



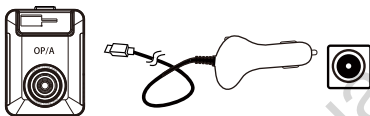
Vico-Opia1 WiFi will turn on automatically after booting. You may  
connect Opia1 via OpiaViewer App for Setting/Playback/Archive.

**Please Notice:** Opia1 will stop recording while OpiaViewer App connecting.  
DO NOT operate Opia1 or Smartphone while driving.

# Camera and Cord Installation

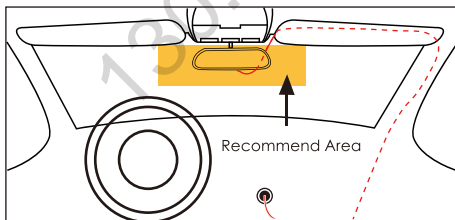
## Installation Steps

1. In order to keep the device functioning properly, please use the VicoVation power cable that comes with the package at all times.
2. Plug the power cable into the D/C outlet then connect the USB side with Vico-Opia1 insert into the power port.
3. Attach and adjust the mount on the windshield in the proper position.



## Recommend Installation Position for Wiring

To achieve a clean looking installation after you have plugged the camera in follow the cord back from the camera and tuck it in under the roof headliner. Then run it along the "A" Pillar and tuck it behind. Finally hide the cable under the passenger side floor mat.

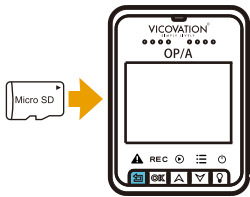


### Special Notice:

1. It is not recommended to wiring the cables on your own if your car is equipped with airbags in the "A" Pillar. Please seek for professional assistance.
2. To avoid effecting the water proof performance on the doors, please restore the rubber seal properly after wiring the power cable.
3. Opia Power Cables are specially designed and only for Opia series dashcams. Opia Series Power Cables are not compatible with other VicoVation products.

# Camera Installation

1. Insert the memory card into microSD Card Slot following the direction shown in the picture. Push to the end until you hear a light click.
2. Vico-Opia1 supports Micro SDHC/SDXC, Max up to 128GB. Class 10 memory card must be used.



## Recording Storage Capacity

	1080p 60fps	1080p 30fps	720p 60fps	720p 30fps
16GB	1.6 hours	2.1 hours	2.4 hours	4.7 hours
32GB	3.2 hours	4.2 hours	4.8 hours	9.4 hours
64GB	6.4 hours	8.4 hours	9.6 hours	18.8 hours
128GB	12.8 hours	16.8 hours	19.2 hours	37.6 hours

3. After connecting to a power source, the device will boot up and enter recording mode automatically.
4. Please adjust the “Time/date” settings and FORMAT memory card from the settings menu first before operating the device for the first time.
5. To remove your inserted memory card, please make sure the recording has been stopped and the power has been turned off. Do not try to eject the memory card while the camera is recording as this may result in the file becoming damaged.
6. A Class 10 (or above) microSD card (SDHC/SDXC) is required.

## Emergency Record files limit :

Opia1 supports manual-trigger emergency record & G-Sensor impact detection record. System separates Normal Recording & Emergency Record in Memory Card. Loop recording will circular only in Normal Recording folder. Emergency record folder will be isolated and requires to be deleted manually (format SD card).

**Emergency occupys max upto 30% of the memory card size.  
Please backup and delete regularly your emegency fles.**



# What's the Life Expectancy of a Memory Card?

---

One of the most important reasons to have a Dashcam installed in a car is to keep it recording in case something unexpected happens. Therefore, you should pay attention to your memory card as much as you care about the quality of your Dashcam.

There are more than 20 memory card brands out there. We recommend you to buy from more well-known and reliable ones.

If possible, you need to format your memory cards on a regular basis. Most of SDHC/SDXC cards on the market are TLC (Triple-Level Cell) type. They are hugely applied on smartphones, digital cameras, and tablets. Their rewrite cycles (TLC) are limited, and it's lower than MLC (Multi-Level Cell) and also cheaper.

Most people care about the specifications, image quality, and price when it comes to choosing a Dashcam. Usually, when you purchase a Dashcam, the package already includes a memory card. Therefore, the importance of selecting a good memory card is commonly ignored. If you were to purchase your own memory card, make sure you read the required class (usually Class 10) and maximum supported size (usually 32G or 64G) of your Dashcam first. Also, keep in mind that memory cards have limited rewrite cycles so they are considered as consumables.

TLC memory cards have limited rewrite cycle for about 500 to 1000 times. In other words, after going through the cycle for more than 500 times, chance of the memory card to be broken will be hugely increased. More, memory card can be broken in any time after going through the cycle more than 1000 times. Unlike TLC memory on smartphones, memory cards on Dashcams are constantly being written (recording). The higher the read/write frequency, the shorter of memory card life-time. There are more and more MLC memory cards for users to choose nowadays. Users may consider going for higher price MLC memory cards to have a better performing experience on Dashcams.

**Please be aware:**  
**memory cards have limited rewrite cycles so they are considered as consumables!**

Brand new memory cards surely wouldn't make a difference at first, but you will be able to see the bad ones from the good ones though out time. Using poor quality memory cards could lead to crushing, stuck in the standby mode, or continuously restarting.

## **Periodically check your memory cards:**

### ★ 1. **Manually perform a format once a month.**

Always format your memory card from the Dashcam before you use it for the first time! After using the memory card for a while, the flash storage gets fragmented because of the constantly writing and rewriting. Manually format once a month will help to improve the data writing performance.

### ★ 2. **Avoid direct exposure to the sunlight.**

Normally, the operating temperature of memory card is under 60°C (140°F). It is recommended to keep your device in the glove box during summer. Exposing Dashcam in the direct sunlight may lead to damage of memory card and Dashcam both. Any electronic device shall avoid direct sun exposure and high temperature.

### ★ 3. **Check if your recorded files are broken or in fragments with a computer.**

Checking video data in memory through computers to see if all footages records normally. Switch to a new memory card if you find anything abnormal, like damage files, or unable to read from memory cards.

### ★ 4. **Format/Deep-Scan with a computer with ScanTool.**

This might take some time but performing this deep scan can determine whether your memory card is healthy or not. Please make sure to format the memory card again after inserting back into the Dashcam.

## Recommendations and notifications:

- ★ 1. Replacing with a new card after using the same one for two years.

Memory cards nowadays are almost half of the price (maybe even lower) comparing to years ago. The life expectancy of memory cards would decrease because of the increasing number on the rewrite cycles. If you are not sure whether your memory card is TLC (Triple-Layer Cell) or MLC (Multi-Level Cell), please simply replace a new one after two years.

- ★ 2. DO NOT eject your memory card without a safe shut down on your Dashcam first.

If you eject your card while the footages are still being saved onto memory card, file damaging and data lost could be occurred. In the event of car accidents, make sure DashCam has been power-off safely before you eject the memory card from DashCam.

- ★ 3. Always have a backup memory card in your car, in case the other one fails.

It's always nice to have a backup, in case of accidents.

- ★ 4. If you find anything unusual about your memory card or in doubt, replace with a new one immediately.

Memory cards are fairly cheap nowadays. Don't wait on replacing a new memory card if you are not sure if your memory card is working right or not. Better safe than sorry.

- ★ 5. DO NOT share the memory card you use on Dashcam with your smartphone or other devices.

The format type of the memory card could be changed when you apply it onto your cell phone due to the operating system requirements. This could lead to malfunctioning on your DashCam.

# Main Display Icons

## Recording Mode Interface

Icons on the upper bar (from left to right):

1. Red Dot Recording Indicator
2. Recording File Time
3. Recording Resolution
4. WiFi Indicator
5. GPS Tracking Function Indicator



Icons on the lower bar (from left to right):

1. Emergency Recording Manual Trigger
2. Normal Recording Start/Stop.
3. Enter Playback Mode.
4. Enter Menu Setting (Press 3secs for WiFi On/off)
5. Power On / Off (Press 3secs)

## Special Notice: About Emergency Record

When Emergency record triggered (by G-Sensor Impact or Manual press), Opia1 will relocate the current recording file to “EMERGENCY” folder, to avoid been overwritten.

If the triggered-point happened within 30 seconds of recording file (within the 30s of that 3mins video clip), Opia1 will also move the previous one video file into “EMERGENCY” folder, too. To ensure all emergency squence clips been safely stored.

## Menu Interface



# Menu Settings

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## Resolution:

1080p 30fps(default), 1080p 60fps, 720p 30fps, 720p 60fps.

## Loop Recording Length:

Setup for each recording file size:1min/3mins(Default)/5mins.

## G-Sensor:

Setup Sensitivity for 3Axis Gravity Sensor:

Off (Default)/Low/Mid/High

## Date / Time:

Setup for Date/Time. Please setup correct time for the first time installation.

## Date Stamp.

On/Off Setup for Date/Time Stamp Overlay on bottom left corner of Video.

## Audio Mic Control:

Setup for Audio Recording volume: Off(Mute)/High/Mid/Low.

## Device Volume:

On/Off Setup for device beep and voice audio alert.

## Smart Parking Surveillance:

Default is Off. Setup for Smart Motion Detection or Smart Time Lapse Recording during parking. For more detail, please check Smart Parking Surveillance pages below.

## Exposure Value:

Setup exposure standard value for Opia1 Auto Exposure.

## WiFi Auto Off:

3mins Auto Off (Default) / WiFi Always Off.

Opia1 built-in 802.11n WiFi module, working with OpiaViewer App on Smartphone(iOS/Android). If there is no connection for 3mins after Opia1 booting, WiFi will be switched off automatically.

You may switch on/off Opia1 WiFi by press MENU key for 3 secs under normal recording mode. (Hot Key)

# External GPS (Optional) Settings

## LDWS (Lane Departure Warning System)

Only after the current vehicle speed reaches 70km/hr, leaving the current lane will cause the device beeping with voice alert to notify driver and an alert icon will show up on screen.

Please Notice: LDWS & FCWS only works under 1080p@30fps resolution mode.



LDWS

## FCWS (Forward Collision Warning System)

When the current speed reaches 70km/hr while the distance with the car in the front is less than the safety distance (5~7 meters), the device will notify the drivers with a beep sound (voice alert) and an alert icon will show up on the screen.

Please Notice: LDWS & FCWS only works under 1080p@30fps resolution mode.



FCWS

## LDWS / FCWS Calibration



Opia1 has to be calibrated to improve accuracy on LDWS and FCWS. After turning LDWS and FCWS on and returning to normal recording mode, a green triangle will show up on screen. Please align the bottom green baseline with engine hood. Please installed the device in the middle of the windshield to ensure the best performance.

# External GPS (Optional) Settings

## Current Speed / GPS Position Overlay

After GPS positioning, vehicle current speed & GPS position can be overlay on bottom video. You may setup On/Off after GPS mouse installed.

GPS related settings can only be activated when External GPS Mouse is installed correctly. Please wait until the GPS signal is fully acquired for these settings to become available.

GPS signal is acquired automatically every time the device is powered up with an external GPS Mouse connected.

After successfully acquiring the GPS signal, a satellite icon will be displayed in the upper right corner to confirm GPS functions are activated.

Please be aware that windscreen films that contain metal material and tall buildings may have an effect on GPS signal receiving.

# Smart Parking Surveillance (Required Vico-Power PLUS)

Smart Parking Surveillance (SPS) function can be unlocked by having Vico-Power PLUS (VPP) installed. SPS will monitor your car while it is stationary from impacts or sabotage.

Video recording will be activated by Motion Detection.

Camera will switch to Standby Mode automatically if no motion is detected to conserve memory space. During Standby Mode, no recordings will be made. SPS will be automatically activated when turned on and G-Sensor inside detects no movement made by vehicle for 5 minutes.



**Vico Power-PLUS<sup>+</sup>**  
Your Best Smart Car-Battery Power Management Device!

## Special Notice:

Full time SPS requires a constant power source. Normal ACC is not meant to provide full time power supply to camera when engine turned off. To enable SPS, it requires constant power from the car battery while engine off (ACC off). Some cars provide constant power through the accessory socket, and others do not. If your car does not, or you would like it wired in directly, it is recommended to find a professional auto electronics shop to make sure it is wired in properly.

## Avoid Using External Power Banks for Smart Parking Surveillance:

During summer time, the temperature inside a car can reach a very high level and using a power bank under such high temperature could result in explosions due to the lithium batteries inside.

## Smart Parking Surveillance Settings:

After turning on Smart Parking Surveillance (default is Off):

### 1.) Smart Motion Detection

Sensitivity levels of Motion Detection under SPS: Red LED light indicates Recording Mode is triggered by Motion Detection (Active Mode, recording). Green LED light indicates no motion is detected (Standby Mode, not recording).

### 2.) Smart Time-Lapse Video: 1 frame per second.

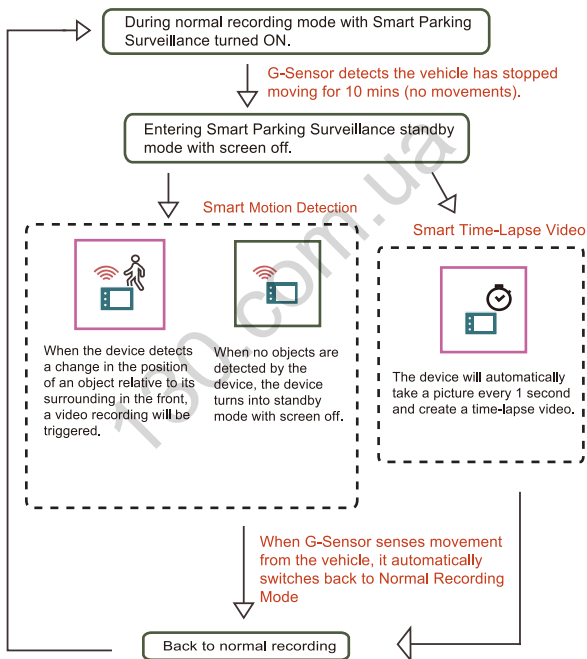
After entering Smart Parking Surveillance, the device will automatically take a picture every 1second and create a time-lapse video to document the things happening in front of the vehicle.

The screen will be turned off when Recording is triggered by Motion Detection during SPS. (Covert mode)



# Smart Parking Surveillance (Required Vico-Power PLUS)

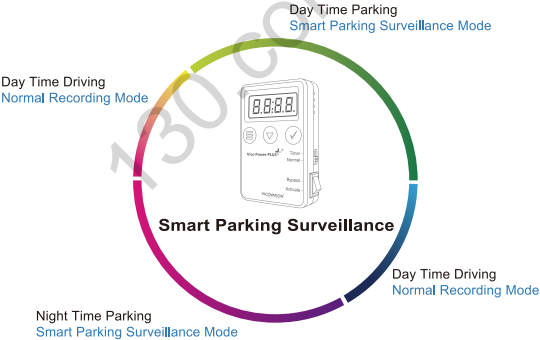
## Smart Parking Surveillance: Working Behavior



# Smart Parking Surveillance (Required Vico-Power PLUS)

Differences between  
Smart Motion Detection and Smart Time-Lapse Video :

	When does it work	Recording Methods	Saved content
Smart Motion Detection	Initiates recording when movements are detected.	Video recording	Saved content every triggered event recorded during Smart Parking Surveillance.
Smart Time-lapse Video	Takes pictures at the selected interval of time and create videos.	Videos combined with photos	Videos combined with images captured during Smart Parking Surveillance.



# Smart Parking Surveillance (Required Vico-Power PLUS)



Vico-Power PLUS (VPP) is a Battery Discharge Prevention device that connects to the car battery (Fuse Box). It continuously provides power to Dashcam after engine is turned off and monitors car battery status at the same time. When VPP detects car battery status has reached the set level, it stops supplying power to the Dashcam (cut-off) to prevent car battery from going dead (drained out). VPP is equipped with built-in temperature sensors and features over-heating protection. This device is compatible with any Dashcam or Blackbox DVR.

## Battery Protections

1. Low voltage protection
2. Over-temperature protection
3. Auto shutdown timer
4. Overcurrent & Impulse current protection



### Low Voltage protection:

Power-PLUS will periodically auto-detect your battery voltage status, to cut-off the power if the voltage drops below the configured value (11.6/11.8/12.0/12.2/12.4V or 23.2/23.4/23.6/23.8/24/24.2/24.4/24.6V) to prevent car battery becoming excessively discharged.



### Over Temperature protection:

During Summer daytime, inner car temperature raise extremely high if you left your car outside with direct sunlight. Over temperature operation might damage your dash cam. Power-PLUS built-in thermo sensor will cut-off power if temperature exceeded setup value. (40°/ 45°/50°/55°/60°/65°C) \* (104°F/ 113°F/ 122°F/ 131°F/ 140°F/ 149°F)



### Timer protection:

If you switch into Timer mode, Power-PLUS will cut-off power when time out, based on your setup schedule (2/6/12/24/48/72hrs).

### Over Current/Surge protection:

Power-PLUS will detect abnormal over current status and cut-off power to prevent any damage on dash cam device. Additionally, Power-PLUS built in with an extra fuse box (2A), to have extra protection if anything goes wrong as incorrect installing or short circuit.

### Built-in Digital Display/ Backlight LED, easier to monitor/control

Backlight LED enables users to have clear display of car-battery voltage in monitoring and setup control, even at night. It's easier to setup configuration with 3 handy control buttons with clear LED friendly display.

### Multi Input Power Type, DC12V/24V all in one

No matter your car is running DC12V or 24V battery, Power-PLUS will auto-detect the voltage input to display different programmable menu setting. It's automatic.



### Multi-Switch to Select Normal mode and Timer mode

Normal mode provides low voltage and over temperature protection at the same time. Timer mode provides original both low voltage and over temperature, also additional timer cut-off when schedule time out. There is a switch on the right side of Power-PLUS for you to switch under different condition.

### Programmable Setting, fitting your car environment

Users can select it's own suitable parameter in different cut-off voltage, temperature, and time. It's all clearly displayed in comprehensive menu and friendly user interface.

# Menu Settings

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## Screen Saver

Default is Display Always On, you may setup for 1mins/3mins/5mins Display Auto Off. LED abover will show Red light when recording. Press power key shortly for light up screen.

## Format SD card

Please Format your memory card on Opia1 for the first time use.

## Format Reminder

Please format your memory card regularly to ensure the memory card working correctly. Setup Format reminder for a regular check. Format memory card once a month is recommended.

## Factory Default

Default setting back to factory default, please reset Language/Date/Time.

## Plaback Video on Opia1

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Enter Playback mode via pressing playback (UP) key under Recording mode. You may select Normal Recording/Emergency Recording folder and choose different video for playback. Press enter for choosing Play/Delete/Lock files.

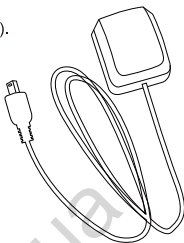


Autogoods "130"

# Optional Accessories

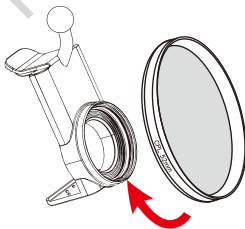
## Vico-GPS Mouse

1. LDWS (Lane Departure Warning System).
2. FCWS (Forward Collision Warning System).
3. GPS location/Speed info overlay on video.



## Vico-CPL Filter & Speed Mount

The VicoVation CPL Filter is easy to install and simply screws to the front of the VicoVation Quick Release Mount. This will dramatically help to reduce the reflection effect from the windscreen enabling you to achieve more saturated and beautiful video. The VicoVation CPL Filter has been designed for use with the VicoVation Quick Release Mount and is made from high quality optical AGC glass. It has an ultra slim frame design with a 52mm anti-reflection (AR) coated filter. This is perfect for reducing unwanted reflections and glare from your windscreen.



Having a CPL Filter installed would reduce brightness on night time recording. Users may remove CPL Filter during the night or change EV settings.

# Limited Warranty Service

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1. The limited warranty starts from the Original Purchase Date. 12 months limited warranty is available on all car video recorders (body units only) and Vico-Power PLUS.

6 months limited warranty is available on all the accessories of VicoVation. The original valid proof of purchase will be required.

2. The limited warranty is only valid in the countries where this product is sold. Please contact the retailer or online shop who sold this unit for detailed in-warranty service.
3. The limited warranty does not apply to the damages caused by shipping, malfunctioning in events of accident, misuse, abuse, water, fire, or other acts of nature, external causes, or faulty installation.

If you have any questions, please feel free to contact us or our local distributors.

Email : [service.en@vicovation.com](mailto:service.en@vicovation.com)

Facebook : [www.facebook.com/VicoVationOfficial](https://www.facebook.com/VicoVationOfficial)

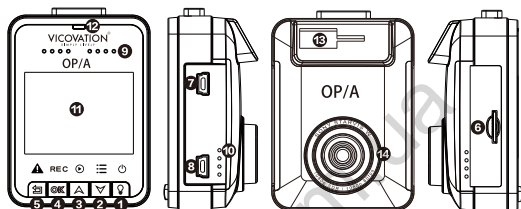


# Vico-Opia1 WiFi行車紀錄器

## 安裝操作指南

感謝您選購Vico-Opia1 WiFi 新極致星光夜視款行車紀錄器，請詳閱安裝操作指南，並注意相關提醒，正常操作主機。

### Vico-Opia1 產品外觀介紹



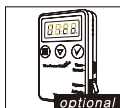
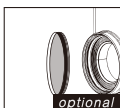
1. 電源開關 (長按三秒開關機)
2. 向下鍵/選單 (長按三秒WiFi開關)
3. 向上鍵 (進入回播模式)
4. 錄影鍵 (確認鍵)
5. 緊急錄影鍵 (返回鍵)
6. Micro SDHC卡槽
7. 車充電源接孔/USB輸出介面
8. GPS外接模組接孔
9. 喇叭/麥克風
10. 散熱孔
11. 兩吋液晶螢幕
12. LED指示燈 (紅色=錄影，綠色=待機，綠色閃爍=記憶卡異常)
13. 支架接合孔
14. 百萬像素鏡頭

### Vico-Opia1 產品盒內標準配件內容：



- 快速安裝指南 ● 保固卡

### 選配：



Autogoods "130"



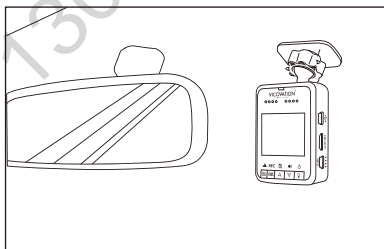
## 支架安裝說明

Opia1內附雙支架，(吸盤支架與黏貼支架)使用者可以自由選擇使用。

Opia1主機 + 吸盤支架示意圖：



Opia1主機 + 黏貼式短支架示意圖：



建議安裝至後視鏡前方位置，不遮擋行車視線

# OpiaViewer APP下載



請先使用您的智慧型手機下載安裝：**OpiaViewer**

視連科Opia1 WiFi智慧型行車記錄器APP

特別注意：Smartphone基本需求為：iOS 8.0以上，Andriod 4.2以上

備註：手機使用3G/4G行動上網下載APP時，電信業者可能會額外收取流量費用  
請留意您的流量與資費方案，或是在無線上網的環境下載APP。

預設SSID: Vico-Opia\_XXXXXXXXXX

預設密碼: 12345678



Opia1開機完成之後，語音會提示WiFi功能開啟。

請開啟智慧型手機WiFi功能，選擇Opia1的SSID連線，

輸入預設密碼：12345678

連線完成之後，可透過OpiaViewer設定/下載影片至手機。

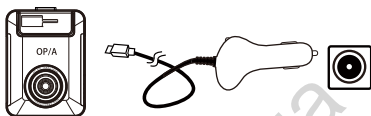
請注意：OpiaViewer APP操作設定時，主機會自動停止錄影。

請勿在行車狀態下操作主機，或是使用手機。請於安全的停車環境下操作設定。

# 車用環境安裝方式

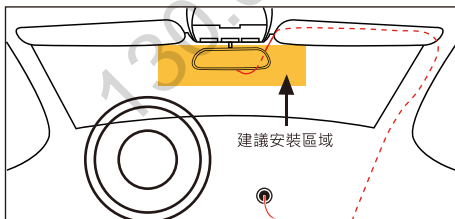
## 安裝步驟

1. 請務必使用Vico視連科原廠車充線，以確保主機運作正常。
2. 請將車充電源線接至汽車點煙座，另一端接至主機的USB電源輸入孔。
3. 將吸盤支架安裝於適當位置，不遮擋行車視線與方便操作為原則，可參考支架安裝示意圖。



## 建議安裝位置與電源走線

簡易DIY電源走線方式：車充電源線可由副駕駛座(腳踏墊下方)，往上走右邊A柱內側防水膠條(可能需要工具，請小心使用與復原膠條位置，或由專業人員協助)，再經由副駕駛座遮陽板上固定，走至Opia主機。

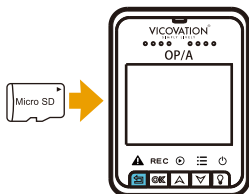


## 特別注意

1. 若您的愛車A柱內有安全氣囊，建議由專業人員協助安裝，不建議自行埋線安裝。
2. 安裝時請注意防水膠條的位置復原，否則可能影響車門防水性能(漏水)
3. 請務必使用Opia盒內專屬車充電源線，請勿使用其他車充電源。

# 開始操作(首次使用請格式化記憶卡)

1. 請依照正確方向插入  
MicroSDHC / SDXC 記憶卡。  
輕推到底後會有輕微喀擦聲。  
(請注意卡片金手指方向)
2. Opia 支援Micro SDXC/SDHC  
· 最高支援128GB記憶卡，嚴禁  
使用Class 10 等級以下之記憶卡  
· 首次使用請務必使用Opia主  
機格式化記憶卡，特別注意。



## 錄影時間對照表 (不含緊急錄影時間)

	1080p 60fps	1080p 30fps	720p 60fps	720p 30fps
16GB	1.6 hours	2.1 hours	2.4 hours	4.7 hours
32GB	3.2 hours	4.2 hours	4.8 hours	9.4 hours
64GB	6.4 hours	8.4 hours	9.6 hours	18.8 hours
128GB	12.8 hours	16.8 hours	19.2 hours	37.6 hours

3. 電源連接後，自動開機進入錄影模式。
4. 首次使用Opia1，請務必先將記憶卡格式化，並設定時間日期。
5. 拔插SD卡前，請先停止錄影或關閉電源，請勿在錄影中任意拔除SD卡以避免資料毀損。
6. 請務必使用Micro SDHC/SDXC Class10等級或以上之記憶卡，  
Class 10等級以下記憶卡請勿使用。

## 緊急錄影檔案：

Opia1支援手動觸發緊急錄影，與G-Sensor (重力感測器) 碰撞觸發緊急錄影。

緊急錄影檔案最多佔記憶卡總容量之30%為最高上限。  
系統將自動循環刪除超過的舊檔案，請注意定期備份與  
定期格式化記憶卡。

# 記憶卡的壽命限制與注意事項

行車紀錄器連續長時間使用，記憶卡多次循環讀寫之後，可能發生無預期的故障。我們多點關注，以免真正需要它時，發現記憶卡已損壞...

市面上記憶卡品牌種類繁多，品質有好有壞。選用大品牌高速記憶卡，自然比廉價雜牌有保障。(機率問題，即便是大品牌，也可能有不良的情況發生。) 使用任何品牌，都需要透過定期手動檢查來確保正常。一般市面上所販售的記憶卡(SDHC/SDXC)零售包裝，大部分是TLC製程記憶體所製造，大規模用於智慧型手機/數位相機/平板電腦，讀寫循環的次數與壽命比MLC製程來的低，也較為便宜。

購買行車紀錄器時，經銷商都會附贈記憶卡，針對記憶卡的挑選並不會在第一時間注意到。通常購買時的挑選，會落在主機規格/畫質功能與性價比，搭贈的記憶卡通常會被忽略。而自行購買記憶卡的使用者，也必須注意主機所能支援的最大容量，與最低傳輸速度限制(大部分行車紀錄器需要滿足Class10規格)。

零售通路所購買的TLC製程記憶卡，讀寫循環次數壽命約為500~1000次，也就是說循環500次以上，損壞機率就會大幅增加。若超過1000次以上，則隨時都有可能損壞。一般正常使用1~2年的記憶卡，損壞的機率曲線也會跟著曲率上升，畢竟TLC的記憶體用在智慧型手機/DSC/平板電腦上，並不像行車紀錄器持續頻繁地寫入檔案/刪檔循環。使用環境不同，壽命長短自然不同。

目前市面上有越來越多的MLC型記憶卡提供消費者選購，也可選購價格較高的MLC記憶卡來優化設備。

**記憶卡因為讀寫循環次數的壽命限制，嚴格說來算是一種消耗品，務必注意。**

當然，全新的記憶卡在一開始使用時，並不會有任何差異，而是使用一段時間之後，記憶卡優劣可能產生一些衍生問題，像是當機/卡在待機狀態停止錄影，或是反覆重開機。

# 記憶卡的壽命限制與注意事項

您可以透過以下幾個檢查，來確認您的行車記錄器與記憶卡是否正常運作：

## ★ 1. 定期手動格式化：

第一次使用全新記憶卡，一定要用行車記錄器主機來格式化。長時間錄影，在多次循環之後，磁區的完整性較低(較破碎)，建議定期手動格式化，也可以透過格式化的錯誤訊息來判斷狀況。如果記憶卡有損壞產生，格式化可能有無法格式化/格式化失敗的錯誤訊息。定期格式化建議至少每個月手動操作一次。

## ★ 2. 盡量避免高溫錄影，停車時主機可放置置物箱避免直射曝曬：

一般記憶卡的工作溫度是60度C以下，夏日氣候炎熱，在陽光曝曬之下，回到車上開車錄影時，在車內冷氣降溫前會有一段時間錄影是在極高溫下執行存取工作，可能會對記憶卡壽命造成嚴重影響。建議停車在外高溫曝曬，可先將主機取下放置置物箱內。任何電子產品都應盡量避免高溫曝曬，高溫曝曬也可能對主機PCB造成老化與其他損壞問題發生。

## ★ 3. 電腦讀取記憶卡檔案，檢查是否有不連續的壞檔或碎檔：

也可使用電腦來檢查是否記憶卡的讀寫狀況正常與否。如果使用電腦檢查發現有異常，就建議更換記憶卡。

## ★ 4. 使用電腦深度格式化，或是使用Scan-Tool來確認記憶卡的狀況：

這是較花時間的步驟，可以深度檢查記憶卡狀態。但是請注意，使用電腦格式化程序或掃描之後，拿回行車記錄器使用時，請務必再使用行車記錄器主機格式化一次記憶卡。(電腦格式化可能會格式化成其他不同的檔案格式，導致行車記錄器無法使用。)

# 記憶卡的壽命限制與注意事項

## 其他重要使用注意事項與建議：

### ★ 1. 請勿直接拔卡，一定要先正常關機後再拔：

如果錄影中直接將記憶卡拔出，會造成檔案損壞與資料遺失的狀況。任何事故/事件發生之後，除了使用緊急錄影備份之外，若要取出卡片，請記得一定要先關機，確認關機之後再拔出卡片。

### ★ 2. 車上準備第二張記憶卡，以備不時之需：

道路意外事故無法預料，有時也可能成為事故發生的目擊者。您的行車記錄器錄下重要資料，當下提供記憶卡給警察處理，或是交由事故發生當事人使用，熱心助人為善。若車上有準備第二張記憶卡，可以方便替代使用，不擔心沒有記憶卡無法使用的窘境。

### ★ 3. 如果發現記憶卡有任何異常發生，建議立即更換，不要拖延：

不怕一萬，萬一置之不理而中途發生意外，沒有錄影的扼腕也是令人沮喪。記憶卡價格也多有降價，價格合理，有問題直接更換，不拖延是上上策。

### ★ 4. 專卡專用，不要拿行車器錄器的記憶卡與手機共用：

記憶卡使用在某些智慧型手機時，手機會因為作業系統需求，而將記憶卡變更為其他檔案格式使用。如果交互使用，可能會造成不相容問題產生，而衍生當機或是其他不錄影問題。專卡專用不混用。

### ★ 5. 連續使用兩年之後，建議更換新記憶卡：

現今記憶卡價格已經是多年前的半價，甚至更低。連續長時間使用下，記憶卡會因為循環次數而降低壽命，越來越接近使用壽命上限。如果不確定記憶卡是TLC或MLC，可以在使用兩年之後，固定時間汰換記憶卡。

# 主畫面圖示與操作說明

## 一般錄影模式

畫面上方圖示依序為

紅色圓形錄影圖示/  
錄影時間/  
影像解析度/  
GPS衛星圖示/  
WiFi開關狀態圖示/



畫面下方圖示依序為

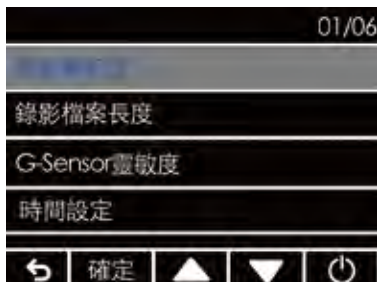
緊急錄影鍵/  
錄影停止/啟動圖示/  
進入回播模式/  
進入選單設定/ (長按三秒切換WiFi開啟關閉)  
電源開關(長按三秒開關機)

## 特別注意：緊急錄影功能

當緊急錄影觸發時（碰撞感測觸發，或是手動按鈕觸發），Opia1主機會自動將當下的三分鐘錄影檔案，移置到“EMERGENCY”資料夾，避免緊急錄影被循環錄影所複寫。

若觸發時間點發生在該三分鐘錄影檔案的前30秒內，Opia1主機也會一併將前一個影像檔案移置緊急錄影“EMERGENCY”資料夾，以確保整個緊急事故的連續影片皆完整保存。

## 進入選單設定



Autogoods “130”



# 功能介紹

## 錄影解析度：

可設定錄影解析度：1080p每秒60張・1080p每秒30張(預設)・720p每秒60張・720p每秒30張・四種錄影模式。

## 錄影影片長度：

可設定每個錄影影片的長度：一分鐘/三分鐘(預設)/五分鐘。

## G-Sensor靈敏度：

設定重力感測器靈敏度・預設為關閉・可設定高/中/低。

## 時間設定：

可設定時間日期・首次操作請手動設定正確時間。

## 錄影時間戳記：

預設為開啟・將時間標記顯示於影片左下角。

## 錄音音量設定：

設定錄影同步錄影・可調整錄音大小聲・預設為中。也可選擇關閉錄影靜音模式。

## 主機提示音：

預設為開啟・主機喇叭所發出的提示音・可設定開啟/關閉。

## 智慧停車監控：

預設為關閉・可設定位移偵測錄影或秒拍縮時攝影。詳細請參考後頁特殊功能介紹(全自動停車監控功能)。

## 曝光值：

可手動調整曝光準位・預設為0。Opia具有自動曝光AE感應功能。

## WiFi自動關閉設定：

可選擇：開機三分鐘後自動關閉(預設)・WiFi全時關閉。

Opia1內建802.11n WiFi模組・可以使用智慧型手機下載OpiaViewer APP連線Opia1操作使用。主機開機三分鐘後若未沒有任何手機連線・Opia1會自動關閉WiFi功能・並語音提示提醒車主。

也可設定WiFi全時關閉・可以在主機錄影主畫面下・長按三秒向下鍵/設定鍵來切換WiFi開關。

# 功能介紹 (選配GPS模組功能)

## 車道偏離警示 LDWS (Lane Departure Warning System)

選擇LDWS開啟，當車輛時速達70km/h以上，在車輛行進時偏離車道，主機會發出警示音與圖示，提醒駕駛人車道偏移情況發生。



請注意：只有在1080p 30fps錄影模式底下可使用LDWS/FCWS。

## 前車碰撞警示 FCWS (Forward Collision Warning System)

當車輛時速達70km/h，在行進中與前車未達安全距離約，主機會發出警示音與圖示，提醒駕駛人前車距離過近。



請注意：只有在1080p 30fps錄影模式底下可使用LDWS/FCWS。

## 影像校正

開啟LDWS與FCWS需校正影像拍攝畫面，使偵測更為準確。開啟LDWS/FCWS功能後，在1080p30fps錄影模式時，主畫面會出現三角形基準線，請調整鏡頭方向，將三角形底線對齊車頭引擎蓋。



Autogoods "130"

# 功能介紹 (選配GPS模組功能)

## 時速標記/座標標記

可在選單內，設定選擇開啟時速標記，GPS座標標記功能，影片左下角會有相關資訊標記顯示。

## 台灣定點測速照相機警示

台灣地區支援定點測速照相機提醒，當車輛行經定點超速照相機，主機會發出人聲警示提醒與圖示提醒駕駛人。

僅支援台灣地區定點超速違規照相警示，不支援移動式/三腳架/與其他超速照相機警示。

測速照相提醒僅為行車記錄器之輔助功能，並非主要功能，行車請依速限行駛，避免超速。

測速照相提醒功能使用GPS定位座標參考，可能與實際測速方向不同，警示提醒僅供參考，提醒用路人小心駕駛。

含有金屬成分的隔熱紙，可能會影響GPS訊號接收，高樓與建築物屏蔽也會影響GPS。安裝時請特別注意。

1. GPS相關功能啟用需正確接上GPS模組(選配)，並等待GPS搜尋，主機取得衛星訊號之後，GPS相關功能才可作用。
2. 每次開機後，GPS相關功能也需要等待衛星訊號定位完成後才能作用。主畫面右上方會顯示白色衛星圖示表示定為完成。

# 特殊功能介紹 (全自動智慧停車監控)

需搭配Power-PLUS 電力加-智慧電源監控保護模組使用

## 全自動智慧停車監控模式 (Smart Parking Surveillance)



**Vico Power-PLUS<sup>+</sup>**  
Your Best Smart Car-Battery Power  
Management Device!

智慧停車監控模式可提供更完整的愛車保護，在停車時仍可使用位移偵測來啟動錄影。避免您的愛車在停車時遭受意外撞擊或人為破壞。前方若無任何畫面變化時，主機進入睡眠待機狀態，節省記憶卡錄影空間。智慧停車監控功能使用重力感測器(G-Sensor)的G值變化，偵測停車狀態，自動切換停車/正常模式錄影模式。

需要改裝為全時供電環境使用：

在引擎熄火(ACC Off)之後，還可以持續提供主機電源，方能開啟此功能使用。此電源改裝需要車廠專業人員協助，請勿自行改裝，以免發生危險，或造成車輛電器系統損壞。若使用一般點煙座電源，則是根據引擎熄火(ACC OFF)斷電而主機關機，停車時則無法進入停車監控模式。

搭配Vico-Power PLUS 電力加-不斷電智慧電源監控保護模組：

電力加是一個車輛電瓶電力監控保護裝置，透過改裝與車用電瓶DC12V連接後，可在引擎熄火後持續供電給行車紀錄器之位移偵測使用，同時監控電瓶電壓狀態，當電壓過低時自動斷電，避免電瓶過度放電而無法發動引擎。

同時具備全球唯一可設定高溫斷電保護，自行設定溫度感測值，在溫度過高的情況下自動斷電保護主機與記憶卡(高溫狀態下錄影可能造成記憶卡損毀)。並具備計時斷電功能，還有多種模式/參數切換，可依不同停車環境切換熄火供電與否，簡單操作，自由開關。

不建議外接行動電源(Power Bank)作停車監控：

夏天天氣高溫炎熱，使用行動電源作停車監控供電使用，可能有鋰電池高溫危險狀況，不建議於車上使用。

智慧停車監控模式設定：

選擇開啟智慧停車監控模式後(預設值為關閉)，相關設定：

### 1.) 位移偵測錄影：

車輛靜止十分鐘之後，主機自動進入位移偵測錄影模式，只有車輛前方有物體位移才會觸發錄影。其餘時間為待機不錄影狀態。主機螢幕會自動休眠，主機上方LED顯示綠燈(待機)，紅燈(觸發錄影)。

### 2.) 秒拍縮時錄影 (1秒一拍)：

車輛靜止十分鐘之後，主機自動進入秒拍縮時錄影模式，一秒一拍，並自動每30分鐘製作成一個一分鐘的縮時影片，儲存在記憶卡裡，主機螢幕會自動休眠。

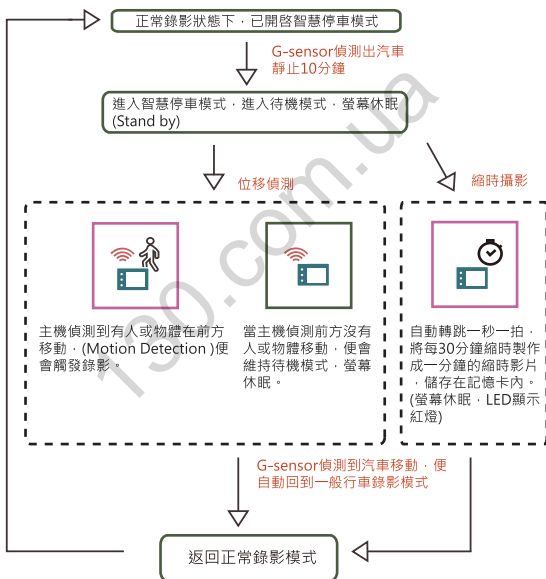
請注意：進入停車監控模式，螢幕為全程自動休眠，只有主機上方LED燈號顯示，避免螢幕啟動顯示引人注目。

# 特殊功能介紹 (全自動智慧停車監控)

需搭配Power-PLUS 電力加-智慧電源監控保護模組使用

- 智慧停車監控模式 - 位移偵測錄影運作定義
- 秒拍縮時錄影運作定義

## (Smart Parking Surveillance)



## 特殊功能介紹 (全自動智慧停車監控)

需搭配Power-PLUS 電力加-不斷電智慧電源監控保護模組使用

進入停車監控模式後，

啟動智慧監控位移偵測與智慧秒拍縮時攝影之功能比較：

	觸發方式	記錄方式	記錄內容
智慧監控 位移偵測	主機前方偵測到物體移動時啟動錄影， 前方沒有任何物體移動(無影像變化) 時，主機則是待機不錄影。	動態錄影 影片檔	只有因觸發位移偵測 而紀錄的事件。
智慧秒拍 縮時攝影	主機自動一秒一拍之縮時攝影	縮時攝影 影片檔	全時段停車之縮時 攝影紀錄。



# Vico Power-PLUS 電力加

## 您的最佳智慧車輛電力監控模組。(選配)



Power-PLUS是一個車輛電力監控保護裝置(選配)，與車用電瓶連接後，可在引擎熄火之後持續供電給行車記錄器，提供 Smart Parking Surveillance 智慧停車監控功能使用。同時監控電瓶電壓狀態，電壓過低自動斷電，避免電量過度消耗而無法發動引擎。

搭配啟動視連科獨家智慧停車監控功能(Smart Parking Surveillance) Opia 主機會自動偵測車輛停車狀態(十分鐘靜止之後)，自動進入停車位移偵測模式。攝影機前方的事件都可以被記錄下來(位移偵測觸發 Motion Detection)，同時也可以被碰撞觸發錄影(G-Sensor)。若沒有任何事件發生，則是維持休眠模式，簡省記憶卡空間。當您回到車上發動引擎，G-Sensor偵測到車輛位移或是振動，記錄器則回到正常錄影模式。Power-PLUS加上智慧停車監控功能，提供您最完整的行車/停車安全保護。

Power-PLUS 提供完整全面的保護功能，包含：

1. 低電壓斷電保護
2. 溫度過高斷電保護
3. 停車計時斷電保護
4. 大電流與突波電流保護



### 低電壓斷電保護

Power-PLUS會持續偵測車用電瓶電壓狀態，當電壓低於設定值，自動斷電保護。設定電壓值可自行調整：

11.6/11.8/12.0/12.2/12.4V 或

23.2/23.4/23.6/23.8/24/24.2/24.4/24.6V (一般車輛為DC12V，Power-PLUS會自動偵測12/24V，顯示不同設定。) 建議設定值不低於12V。



## 溫度過高斷電保護

夏日炎熱高溫，若車輛放置室外陽光直射，車內溫度過高可能導致電器設備損壞。Power-PLUS內建溫度感測器，當溫度高於設定值，自動斷電保護。設定溫度值可自行調整：40°/45°/50°/55°/60°/65°C。預設值為45°C。



## 停車計時斷電保護

若將開關切換至Timer Mode，車輛熄火之後，Power-PLUS會依照時間設定值倒數計時，時間到了之後會自動斷電。時間設定值可自行調整：2/6/12/24/48/72hrs。

## 大電流與突波電流保護

Power-PLUS除了電壓過低斷電保護之外，在主要的接線上(Battery+)有裝置額外的保險絲盒，內有2A的保險絲，提供異常短路可能產生的大電流保護。

## 內建背光LED面板，顯示清晰，操作得心應手！

紅色背光LED螢幕具有更好的清晰顯示，無論白天黑夜，電壓監測與操作設定皆可清晰顯示。

## DC12V/24V雙模，各種車輛都可使用

無論你的愛車是標準DC12V電壓，或是重型卡車DC24V，Power-PLUS皆可支援使用。Power-PLUS會自動偵測輸入電壓，選單顯示不同的斷電電壓參數設定值。



## 模式切換鈕，輕鬆切換一般(Normal)或計時斷電(Timer)模式

一般模式(Normal)同時提供低電壓與溫度過高斷電保護，而計時斷電模式除了提供同時提供低電壓與溫度過高斷電保護之外，還可依照設定時間倒數計時自動斷電。側邊的切換鈕可依照不同需求輕鬆切換使用。

## 多種設定參數可選，可依照車況與環境調整設定

使用者可自行設定不同的斷電電壓值，溫度設定值，與計時斷電時間設定值。可以依照不同的車況與環境來客製化調整適合自己愛車的設定參數。



## 功能介紹

### 螢幕自動休眠：

預設為永遠開啟，可設定永遠開啟/一分鐘/三分鐘/五分鐘。開機錄影之後會依照所設定的時間，螢幕自動休眠，主機繼續錄影，螢幕休眠之後可短按電源鍵喚醒。

### 格式化記憶卡：

首次使用，請務必使用Opia主機格式化記憶卡。

### 格式化提醒：

請定期手動格式化記憶卡，確認記憶卡狀態。建議最少每個月格式化一次。

### 回復原廠設定：

啟用此功能回復原廠設定，請重新設定語言與時間日期。

## 回放操作

在錄影主畫面底下，停止錄影之後，可選擇Playback回播鍵(向上鍵)進入回放模式。

進入回放模式後，可選擇緊急錄影檔案或一般錄影檔案。可移動選擇檔案，按下確認鍵可撥放/刪除/鎖定檔案。



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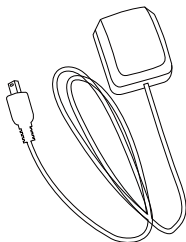
## 其他選購配件

### Vico-GPS 模組

安裝Vico-GPS 模組，Opia1主機增加功能

2. LDWS 車道偏離警示 (@1080p30fps)
3. FCWS 前方碰撞警示 (@1080p30fps)
4. GPS座標與時速標示，標示於影片左下方。

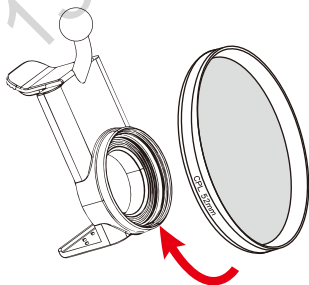
台灣地區定點測速照相機提醒



### Vico-CPL 偏光濾鏡 & Opia專用快拆支架

可另外選購Opia專用快拆支架快拆支架支援標準52mm鏡環，可搭配CPL偏光濾鏡，可選購Vico-CPL Filter或是自行購買52mm鏡環偏光鏡。安裝CPL鏡可減少白天車內前擋玻璃的內反射，有更清晰飽和的

請注意CPL偏光濾鏡有減光效果，請特別留意夜間錄影畫面。建議夜間移除偏光鏡。



## 維修服務與保固條款

視連科保證產品皆經過完整測試，避免原物料及加工過程之瑕疵，並符合所公佈之規格。若產品在保固期間內，於正常環境使用下有任何不良或損壞發生，您可與原購買的經銷商連絡，透過原購買經銷商寄回視連科維修。若有其他相關維修問題，也歡迎您直接撥打客服專線與我們聯繫。

## 免付費維修服務保固說明

1. 視連科產品主機提供一年保固，自消費者之原始購買日起算一年。用戶須出示原始購買日之證明（發票或是保固卡）始能享有保固服務。若無法提供正常購買證明，視連科將依產品序號判定保固期間。
2. 若產品主機在購買七日內（含），於正常操作下發生硬體故障，視連科提供免費更換新品。
3. 所有配件（車充、支架、線材）為耗損品，自購買日起享有六個月的免費保修服務。
4. 如逾保固期之維修與配件更換則另行報價收費。
5. 台灣地區（臺澎金馬）保固期內，產品寄回視連科的運費，由使用者自行負擔。回送使用者的部分由視連科負責。保固期外與國外地區，兩趟運費皆由使用者自行負擔。

## 售後服務支援

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有任何安裝操作問題，歡迎來信或是致電視連科客服中心

### 台灣地區:

Email : [Service@vicovation.com](mailto:Service@vicovation.com)

Line : VicoVation

客服專線：02-2627-5883轉分機22, 23客服部

行動客服專線：0975-023-262

視連科客服中心地址：台北市內湖區瑞光路358巷38弄36號2樓之2  
客服時間：週一~週五上午09:00~12:30，13:30~18:00 (例假日與國定假日除外)

歡迎您加入視連科Facebook專頁[www.facebook.com/VicoVation](https://www.facebook.com/VicoVation)，可得到第一手產品相關資訊與更新軟體資源，有任何問題也可以直接於Facebook留言提問。



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# Specifications

Image Sensor	SONY STARVIS™ 2 Mega-pixels BSI CMOS
Lens	F/1.4, 7G Mega-pixel Lens   F#1.4超大光圈, 7G全玻鏡頭
Field of View	145° Diagonal Viewing Angle   145度大廣角
Video Resolution	Full HD 1080p @ 60fps   1080p每秒60張 Full HD 1080p @ 30fps(Default)   1080p每秒30張 (預設) HD 720p @ 60fps   720p每秒60張 HD 720p @ 30fps   720p每秒30張
LCD Display	2.0" TFT LCD   2寸螢幕
G-Sensor	3 Axis Gravity Sensor   三軸重力感測器
Memory Card	Micro SDXC/SDHC, min Class10 only, up to 128GB 支援高速記憶卡, 最低Class10, 最大支援128GB
Microphone	On/Off   開啟/關閉
Certificate	CCC/CE/FCC/BSMI(D33i02)/RoHS
File Format	.MOV(H.264)
Languages	英文/中文
Power	4meters Mini USB Cigar Car Charger   四米車充電源線 (Input DC 12~24V, output DC 5V/1A)
Super Capacitor	High Temp. Resistant Super Capacitor Design 耐高溫超級電容設計
GPS	Optional   選配
Parking Mode	Motion Detection/Time Lapse   位移偵測/縮時攝影
Operating Temp.	-10°C ~ 70°C
Storage Temp.	-20°C ~ 80°C
Wifi	Built-in 802.11n WiFi, Support Smartphone with Opia-viewer App (iOS, Android) 內建802.11n無線Wifi功能, 支援OpiaViewer App (iOS, 安卓智能手機)
Human Tech.	Loop/Seamless Recording, Emergency Recording, Screen Saver, Time Stamp 無縫循環錄影, 緊急錄影, 螢幕休眠, 時間標籤



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