PAPAGO!®

GoSafe 520

使用手冊 / User Manual
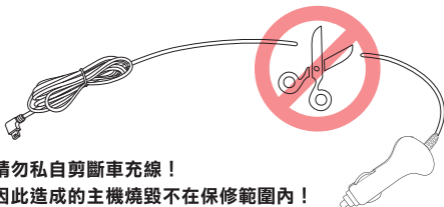
目錄

⚠️ 警告

● 請勿濕手安裝或操作。
● 請勿安裝在高濕度、有易燃易爆氣體、液體處,以及干擾駕駛員視線或安全的區域。
● 請勿長時間將主機暴露於高溫下的密閉車輛。
● 使用時請勿超過額定電壓。
● 當車輛熄火後,點煙器仍供電的使用者,在離開車子時,務必將點煙器插頭拔起,以避免耗光車瓶內的電力,或造成其他意外狀況發生。
● 產品、配件及包裝請遠離兒童!
● 限用原廠車充線,本公司對他廠車充線造成的任何損害概不負責。
● 請勿自行拆卸主機與車充線。

請勿私自剪斷車充線!
因此造成的主機燒毀不在保修範圍內!

● 務必按照當地的法律法規來回收電池。
● 請勿嘗試拆解、改裝或加熱電池。

● 電池不可自行更換，更換不當會有爆炸危險！
● 請勿讓電池與水（如海水）或其他液體接觸。
● 請勿使電池短路。
● 電池不得暴露在如日照、火烤或類似過熱的環境中以防爆炸
● 請勿將電池投入火中，以防爆炸。

⚠ 注意

● 不要用力按壓鏡頭。
● 不要用錐子等尖銳物體刺戳主機及配件。
● 在關機過程中，請勿立即將 MicroSD 卡取出，避免檔案造成損毀。
● 建議使用 Class10、8GB 以上的 MicroSD 卡。（最大支援 32GB）
● MicroSD 卡容量和可錄製時間對應如下。（數值僅供參考）

MicroSD卡容量	8GB	16GB	32GB
720P 60FPS	85 min	170 min	340 min
1080P 30FPS	75 min	150 min	300 min
1296P 30FPS	60 min	120 min	240 min
21:9 30FPS	60 min	120 min	240 min

● 若使用2560x1080p、2304x1296p解析度錄影，於電視上以記憶卡或USB隨身碟播放影片，電視必需支援2K以上影像。
● 首次使用 MicroSD 卡前，請務必在主機上將 MicroSD 卡格式化，以保證 MicroSD 卡的讀寫穩定。
● 在系統升級過程中請勿斷電！以免造成無法開機等情況！
● 本手冊的產品功能及內容如有變更，恕不另行通知。

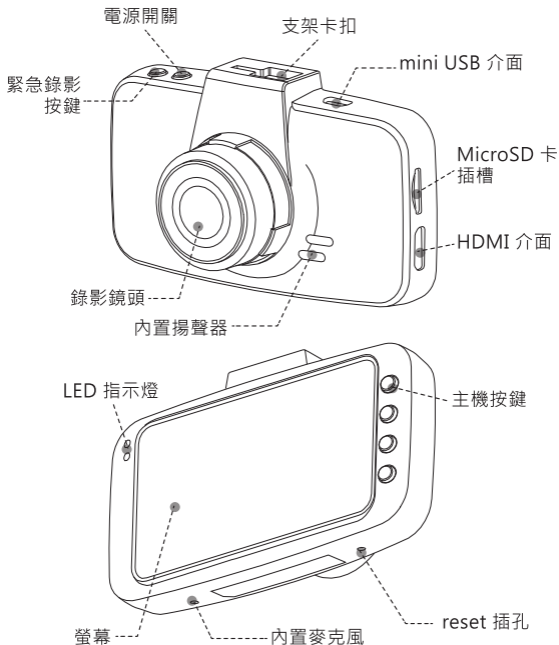## 包裝內容

● GoSafe520主機

● 吸盤式車架

● 12-24V車充

● USB傳輸線

● 保固卡

PAPAGO!

Product registration card / Warranty card
產品保證書 / 產品保固卡

Product authority code
認證碼

● 使用手冊

使用手冊

⚠ **本產品包裝內容如有變更，恕不另行通知。**

主機介面

電源開關

支架卡扣

mini USB 介面

緊急錄影
按鍵

MicroSD 卡
插槽

HDMI 介面

錄影鏡頭

內置揚聲器
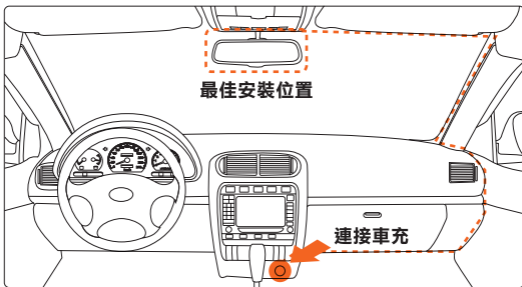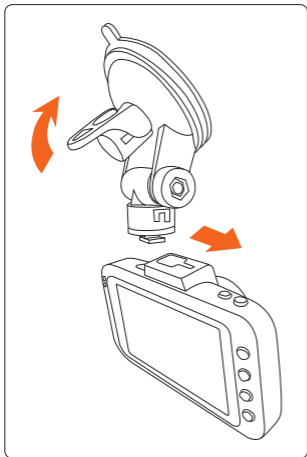
LED 指示燈

主機按鍵

螢幕

內置麥克風

reset 插孔

安裝指南

安裝位置

● 不要安裝在干擾駕駛員視線或安全的區域內。

● 盡可能安裝在靠近車內後視鏡附近，影像視野較佳處。

● 鏡頭拍攝位置處於雨刷清潔範圍內，確保雨天可清晰拍攝。

● 不要安裝在汽車安全氣囊活動範圍內。

● 不要安裝在汽車隔熱紙上，以免損毀汽車隔熱紙。

● 安裝位置不受汽車隔熱紙影響，或任何具干擾性的電子產品周圍。
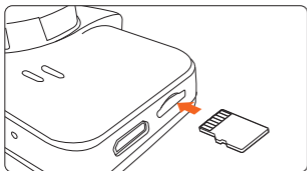

最佳安裝位置

連接車充

⚠️ **切勿把機器安裝在安全氣囊彈蓋上或安全氣囊的工作範圍內。本公司對因車輛碰撞或汽車安全氣囊的問題而導致的傷害或死亡不承擔任何責任。**

安裝方式

主機安裝
1. 雙手分別扶住主機與支架，將支架滑入主機上的支架卡扣。

2. 選擇合適的位置，如後視鏡右側後方或者正中間，將吸盤吸住前擋玻璃，壓下支架壓扣固定即可。

3. 調整主機角度，以螢幕顯示車頭居中為最佳。

MicroSD 卡安裝
將 MicroSD 卡 金屬面朝上插入主機 MicroSD 卡插槽。

開機

● 自動開機

將 MicroSD 卡插入主機 MicroSD 卡插槽，車充連接主機 mini USB 介面與汽車點煙器，汽車發動，主機自動開啟。

● 手動開機

在主機已連接電源的情況下，按下主機電源開關手動開機。

關機

● 自動關機

主機電源開啟的狀態下，汽車熄火或拔掉車充線，主機即自動關機。

⚠ **開啟延遲關機功能，主機會依設定時間倒數後自動關機。**

⚠ **待主機電源完全關閉後，再拔取 MicroSD 卡，以避免存儲的檔案損毀。**

⚠ **某些車型熄火後點煙器仍供電，需手動關機。**

● 手動關機

主機電源開啟的狀態下，長按主機電源開關鍵至少 5 秒鐘，主機關機。再次開機時，按下主機電源開關鍵 3 秒，主機即可開啟。

按鍵功能

● 錄影模式

   ◯ 模式切換   ◯ 進入選單模式
   MODE   △

   ◯ 開啟 / 關閉錄製聲音   ◯ 開啟 / 關閉螢幕顯示
   ▽   OK

   ◯⚠ 手動緊急錄影

● 拍照模式

   ◯ 模式切換   ◯ 設置照片解析
   MODE   △

   ◯ 拍照   ◯⚠ 回到錄影模式
   OK

● 播放清單

   ◯ 模式切換   ◯ 上一選項
   MODE   △

   ◯ 下一選項   ◯ 選定影像 / 照片
   ▽   OK

   ◯⚠ 回到錄影模式

● 播放模式

   ◯ 回上層   ◯ 刪除影像 / 照片
   MODE   △

   ◯ 播放 / 暫停   ◯⚠ 回到錄影模式
   OK

● 選單模式

   ◯ 回上層   ◯ 上一選項
   MODE   △

   ◯ 下一選項   ◯ 選定 / 確認
   ▽   OK

   ◯⚠ 回到錄影模式

指示燈

指示燈狀態	意義
綠燈恆亮	充電中，充滿電後熄滅
紅燈恆亮	電源開啟，影像錄製中
紅燈持續短閃兩次	事件提醒： ● 發生碰撞後自動備份。 ● 影像備份空間不足，覆蓋舊檔。
紅燈持續閃爍	無法錄影： ● 韌體升級中。 ● MicroSD 卡無法寫入。 ● MicroSD 卡空間不足。 ● MicroSD 卡格式錯誤。 ● 其他問題，建議格式化 MicroSD 卡。

畫面圖示

●0:19 ：影像錄製中

🔇 ：靜音模式

WHD ：影像解析度

🚶 ：移動偵測

😪 ：疲勞駕駛警示

🔦 ：開燈提醒

⑩ ：速限標誌辨識

▤ ：前車起步提醒

△ ：緊急錄影寫入

4 ：緊急錄影筆數

🔋 ：電池狀態

按鍵圖示

M	模式切換	⚙	設置模式
🎤	開啟 / 關閉錄製聲音	✖	開啟 / 關閉螢幕顯示
↑	上一選項	↓	下一選項
✔	確認 / 選定	↩	回上層功能表
🗑	刪除影像 / 照片	▶	播放影像 / 照片
‖	暫停	▣	照片解析度
▶	播放	◉	拍照

模式切換

開機狀態下，按下 "模式" 鍵，可循環切換 "錄影模式" → "照相模式" → "播放清單" 。

錄影功能

● 循環錄影

　○ 將 MicroSD 卡插入主機 MicroSD 卡插槽，主機接通電源後自動開始循環錄影。

　○ 每段循環錄影的時間長度為 5 分鐘。

　○ MicroSD 卡空間不足時，循環錄影會自動覆蓋舊檔。

　○循環錄影存放於 SD card:\NORMAL 資料夾。

● 緊急錄影
　○ 自動緊急錄影
　G-sensor 開啟的狀態下，發生外力撞擊時，主機自動將當
　前錄製的影像鎖定，避免影像在循環錄影中被覆蓋。

⚠ **可於"選單 - 碰撞靈敏度"中設置感測碰撞的靈敏度。**

　○ 手動緊急錄影
　在影像錄製的過程中，按下主機上方"緊急錄影按鍵"，可
　將當前錄製的影像鎖定，避免影像在循環錄影中被覆蓋。
　緊急錄影保存組數為十組。
　○ 緊急錄影存放於 SD card:\EVENT 資料夾。

照相功能
　○ 在影像錄製的過程中，按下"模式"鍵，切換至"拍照模
　式"，再次按下"拍照"鍵，即可將當前畫面存成照片。
　○ 在影像錄製的過程中，長按"OK"鍵，即可將當前錄製
　影像的畫面拍照。本拍照功能不影響正在錄製的影像。

⚠ **錄影中拍照功能只支援21:9及720P解析度的錄影模式。**

　○ 照片存放於 SD card:\NORMAL 資料夾，與循環錄影文
　件相同目錄。

播放功能

① 在拍照模式下，按下〝模式〞鍵，進入播放清單。

② 選擇錄影檔 / 照片檔，按下〝確定〞鍵進入〝播放選定模式〞

③ 按下〝確認〞鍵，可選擇播放影像檔 / 照片檔。 按下〝刪除〞鍵，可選擇刪除影像檔 / 照片檔。

PC 模式

① 用 mini USB 連接線連接主機和電腦。

② 主機自動開啟，螢幕顯示〝USB 連接中〞。

③ 電腦偵測到〝抽取式磁碟〞。

④ 打開〝抽取式磁碟〞，有兩個資料夾，分別為：

\NORMAL（循環錄影文件）

\EVENT（緊急錄影文件）

⑤ 將所需的檔拷貝到電腦中。

HDMI 輸出

① 用 HDMI 輸出線連接主機和輸出設備。

② 將輸出設備輸入信號源設置為 HDMI。

③ 輸出設備螢幕代替主機螢幕，顯示畫面。

④ 可播放、刪除影像及照片。

韌體升級

① 登陸 PAPAGO! 官網：www.papagoinc.com

② 進入〝下載專區 – 行車記錄器〞。

③ 將 GoSafe 520 最新韌體檔下載並解壓至 MicroSD卡根目錄

④ 複製完成後，將 MicroSD 卡插入主機 MicroSD 卡插槽。

⑤ 插上電源，開啟主機電源開關。

⑥ 開機畫面後，出現升級提示選單，選擇 "是" 確認升級。

⑦ LED 指示燈閃爍，升級開始。

⑧ 升級完成，主機自動重新開機。

⑨ 進入 "選單－版本資訊" 查看是否為最新版本。

⚠ 使用 MicroSD 卡升級韌體之前，請務必在主機上將 MicroSD 卡格式化，以保證 MicroSD 卡的讀寫穩定。 在系統升級過程中請勿斷電！以免造成無法開機等情況！

選 單

在錄影模式下，按下 "選單模式" 鍵，進入選單模式。

● 影像解析度：設置錄製影像的解析度。可選擇：2560x1080 30P 21:9 WHD、2304x1296 30P 16:9 SHD、1920x1080 30P 16:9 HDR、1280x720 60P 16:9 HD。（HDR：硬體高動態範圍。）

● 時間設置：設置系統日期 / 時間。

● 錄音設置：設置錄影時是否同時錄製聲音。

● 音量設置：設置系統音量大小。可選擇：關閉、20%、40%、60%、80% 或 100%。

● 按鍵音：設置按鍵音是否開啟。

● 螢幕保護：設定螢幕自動關閉時間。可選擇：關閉、1分鐘、3分鐘、5分鐘。

● 碰撞靈敏度：設置碰撞靈敏度。可選擇：低靈敏度、中靈敏度、高靈敏度或關閉。

● EV 值設置：在不同光線下，可以通過調整 EV 值獲得較佳拍攝效果。可 選擇：-2.0、-1.7、-1.3、-1.0、-0.7、-0.3、0.0、0.3、0.7、1.0、1.3、1.7、2.0。

● 影像頻率：設定環境光源的頻率。可選擇：50Hz 或 60Hz。

● 系統語言：設定系統顯示的語言。可選擇：繁體中文、英語、法語。

● 移動偵測：此功能開啟後，主機開始錄影。若錄製中的畫面持續超過60秒鐘不動，主機停止錄影並進入偵測狀態。錄製中的畫面發生改變後，主機啟動，開始錄影。依此重複。

⚠️ **停車熄火後，如需使用此功能需外接電源使用，無供電時無法實現此功能。**

● 延遲關機 此功能開啟後，可在熄火或移除電源後一段時間才自動關機。可選擇：關閉，1 分鐘，3 分鐘，5 分鐘。

⚠️ **若在自動關機前進行功能操作，會取消延時關機功能。在停止操作後 10 分鐘自動關機。**

● 影像輸出格式：設置影像信號輸出格式。可選擇：NTSC 或 PAL。

● 自動隱藏按鍵：此功能開啟後，在錄影模式下，停止操作主機5秒後，會自動將圖示隱藏，按任意鍵可再喚出按鍵圖示進行操作。

● 行車安全

1. 影像位置校正：調整機器上下的拍攝角度，將影像調整成最佳位置。

2. 速限標誌辨識：將道路上的速限標誌，利用圖像辨識技術顯示該路段速限，可設置為語音、靜音、警示音或關閉此功能。

3. 疲勞駕駛警示：此功能開啟後，可自定義設定階段性鬧鐘，定時提醒您休息一下再上路，可設置30分鐘/1小時/2小時/4小時或是關閉此功能。

4. 開燈提醒：此功能開啟後，當行駛環境光線不足的情況下(例如：進入隧道或地下室)，以警示音提醒您，並於螢幕中顯示警示的圖片，可設置開啟或關閉。

5. 前車起步提醒：此功能開啟後，在您停駛10秒鐘後即啟動偵測，當前方車輛駛離後，會立即發出警示音，貼心提醒您起步駕駛。

● 格式化提醒 :設置提示格式化的時間。可選擇：15 天、30 天、60 天或 關閉。

● 格式化 :此操作會刪除 MicroSD 卡上的所有資料。

⚠️ **此操作無法復原。請備份好影像或照片後再執行此操作。**

● 恢復預設值:恢復各項設置至出廠時的預設值。

● 版本資訊： 查看主機當前韌體版本資訊。

清潔與維護

● 若主機鏡頭附著異物，請勿用手指直接接觸螢幕，避免影響鏡頭拍攝效果。

● 若異物進入機器，請與我們聯繫，勿自行拆卸主機與車充！

● 長時間離開車輛時，請取下機器，拔下車充。

● 避免將機器放置在潮濕或高溫的地方。

● 為了保證 MicroSD 卡的性能，長時間不使用機器時，請取出 MicroSD 卡。

故障排除

● 無法開機

　○ 確認主機是否供電，或電池電量太低。

　○ 戳 reset 插孔，重新開機。

● 螢幕不顯示正在拍攝的影像

　○ 錄影模式下，確認是否已關閉螢幕顯示。按下 "開啟 / 關閉螢幕顯示" 鍵，開啟螢幕顯示。

　○ 螢幕是否設置螢幕保護裝置。可於 "選單 - 螢幕保護" 中更改螢幕設置。

● 儲存卡已滿

　○ 從主機刪除不需要的影像 / 照片。

　○ 將 MicroSD 卡放到電腦上，刪除不需要的影像 / 照片。

　○ 格式化 MicroSD 卡。

⚠ **刪除及格式化無法復原。請備份好影像或照片後再操作。**

● 主機無法播放影像

　○ 確認是否在電腦上更改過 MicroSD 卡內的影像或照片的
檔案名或者資料夾名稱。

　○ MicroSD 卡內的影像或照片是否經過電腦處理，或者是
非主機錄製的影像或照片。

　○ MicroSD 卡已壞。

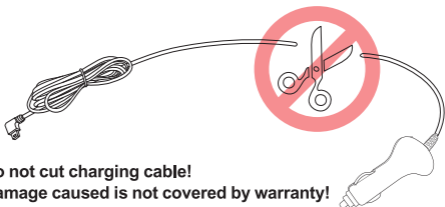**若以上內容仍未解決您的問題，請與經銷商或本公司聯繫。**

Table of Contents

Precaution and safety notice

⚠ Warning

● Do not install or operate with wet hands.

● Do not install in a location of high humidity, inflammable gas, liquid and position that may affect driver visibility and safety.

● Do not leave the device inside an airtight vehicle exposed to extreme heat.

● Do not use power that exceeds rated voltage.

● For any user that has a cigar lighter that remains working after the engine is switched off, it will be necessary to remove the plug of the lighter if the vehicle is left sitting for a long period of time, to avoid battery power consumption or any other accident.

● Keep children away from products, accessories and package.

● Use only original charging cable. The manufacturer is not liable for damage resulting from the use of other charging cables.

● Do not disassemble the device and charging cable.

Do not cut charging cable!
Damage caused is not covered by warranty!

● Dispose of battery according to local regulations.

● Do not attempt to disassemble, modify or heat battery.

● Do not replace battery, improper replacement may cause explosion hazard!

● Keep battery away from water (e.g. seawater) or any other liquid.

● Try to prevent the battery from short-circuiting at all times.

● Battery should not be exposed to an overheated environment such as direct sunlight or fire to prevent explosion.

● Do not throw the battery into a fire. It will explode.

⚠ Caution

● Do not press lens forcefully.

● Do not use sharp object against Dashcam or accessories.

● Do not remove MicroSD card during shutdown process to avoid file damage.

● It is recommended to use a Class 10, 8 GB or above MicroSD card (32 GB SD is highest supported type)

● MicroSD card volume and corresponding recordable length is as follows (for reference only)

MicroSD card volume	8GB	16GB	32GB
720P 60FPS	85 min	170 min	340 min
1080P 30FPS	75 min	150 min	300 min
1296P 30FPS	60 min	120 min	240 min
21:9 30FPS	60 min	120 min	240 min

● It is necessary to format MicroSD card before first use to ensure stable read and write.

● Do not interrupt power supply during system upgrade to prevent from booting failure.

● Product function and contents of this manual may be changed without further notice.

Contents of package
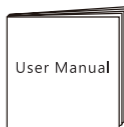
- GoSafe520

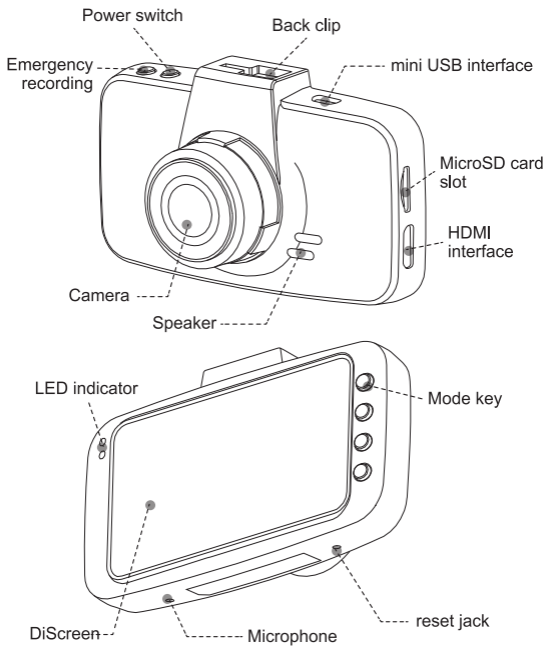- Suction Mount

- 12-24V Car Charge

- USB Cable

- Warranty Card

PAPAGO!

Product registration card / Warranty Card
保固卡 / 保证卡

Product authority code

- User Manual

User Manual

⚠️ **Package contents may be changed without further notice.**

Interface

Power switch

Back clip

Emergency recording

mini USB interface

MicroSD card slot

HDMI interface

Camera

Speaker

LED indicator

Mode key

DiScreen

Microphone

reset jack
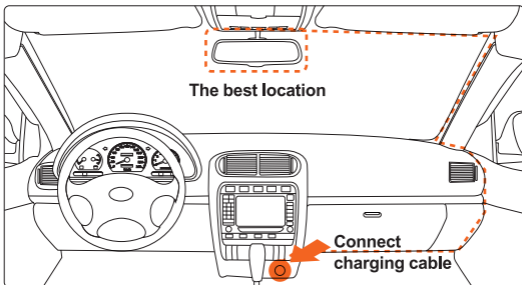
Installation location

● Do not install device in a location that will interfere with driver visibility or safety.

● Install device in a location close to the rearview mirror with the best view.

● The lens should be positioned within the windshield wiper area to ensure a clear view on rainy days.

● Do not install device on or near the area where the airbag operates.

● Do not install device on sun control film (window tint) to prevent any damage.

● Install in a place where it will not be affected by the sun control film (window tint) or any other electronic product to ensure optimal use.
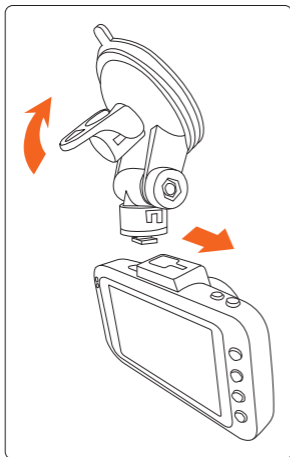

The best location

Connect charging cable

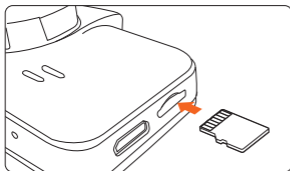⚠️ **Do install device on air bag or within its working range. The manufacturer is not liable for any injury or death caused by deployment of air bag.**

Installation method

1. Hold device and suction mount with both hands respectively. Slide suction mount into the back clip.
2. Select a suitable location, such as behind the rearview mirror to the right or in the middle. Push down the suction mount onto the windshield and press firmly for at least 5-10 seconds. Then press the latch up.
3. Adjust the device's angle; the best position is to have the nose of the vehicle displayed in the middle of the screen.

MicroSD card installation
Insert MicroSD card into slot.

Switch on

● Automatic

Insert the MicroSD card into the card slot; then connect the car charger to the Dashcam mini USB interface and car cigarette lighter. Start engine, device will switch on automatically.

● Manual: When connected to a power source press the power button to turn on manually.

Switch off

● Automatic: When the power is turned on, simply turn off the engine or unplug charging cable to switch it off automatically.

⚠️ **If the delay function is activated, the device will turn off according to the set time frame automatically.**

⚠️ **It is safe to remove the micro SD card after the power is completely turned off to avoid damaging the video file.**

⚠️ **Switching the device off manually is required for vehicle models whose cigar lighter provides continual power after the engine is turned off.**

● Manual

When the device has a power source, press and hold the power switch at least 5 seconds to turn the device off.

Press the power switch for at least 3 seconds to switch the device on.

Button functions

● Recording mode

$\bigcirc$ Mode switching $\bigcirc$ Access setting mode

$\bigcirc$ Audio recording on/off $\bigcirc$ Screen on/off

$\bigcirc$ ⚠ Manual emergency recording

● Photographing mode

$\bigcirc$ Mode switching $\bigcirc$ Photo resolution setting

$\bigcirc$ Shooting mode $\bigcirc$ ⚠ Return to recording

● Playlist

$\bigcirc$ Mode switching $\bigcirc$ Previous menu

$\bigcirc$ Next menu $\bigcirc$ Video/Photo selection

$\bigcirc$ ⚠ Return to recording mode

● Replay

$\bigcirc$ Return Previous menu $\bigcirc$ Delete Video/Photo

$\bigcirc$ Play/pause mode $\bigcirc$ ⚠ Return to recording

● Setting mode

$\bigcirc$ Return to previous menu $\bigcirc$ previous menu

$\bigcirc$ Next menu $\bigcirc$ Select/confirm

$\bigcirc$ ⚠ Return to recording mode

Indicator

Indicator status	Description
Green light on	Charging, light off when completed
Red light on	Power on and recording
Red light flashes twice	Reminding: ● Automatic backup after collision. ● Insufficient backup space, old file is overwritten
Red light keeps flashing	Recording disabled: ● Firmware upgrading ● MicroSD card: un-writable ● MicroSD card: insufficient space ● MicroSD card: incorrect format ● Other Issue: micro SD card needs to get formatted

Icons

- ●0:19 : Recording
- 🔇 : Mute
- WHD : Resolution
- 🏃 : Motion detection
- 😫 : Driver Fatigue Alarm
- 🔌 : Remind Lights
- ⏱ : Stop and Go
- △ : Emer.
- 4 : Emer. recording space
- 🔋 : Battery status

Icons description

▣	Mode switching	✿	Setting mode
🎤	Audio recording on/off	▨	Screen on/off
⬆	Previous menu	⬇	Next menu
✔	Confirm/selection	↩	Return to previous menu
🗑	Delete Video/Photo	▶	Play Video/Photo
❚❚	Pause	▱	Picture resolution
▣	Play	◉	Shooting

Mode switching

With the device on, press "mode" key to toggle between "recording mode"→" mode"→"Play List mode" in that order.

Recording mode

● Loop recording
  ○ Insert MicroSD card into card slot and automatic loop recording will begin after power is supplied.
  ○ Time frame for each video file is 5 minutes.
  ○ When there is insufficient space on the MicroSD card, loop recording will automatically overwrite all old files
  ○ Loop recording file is saved in SD card:\NORMAL folder

● Emergency recording
  ○ Automatic emergency recording
    When the G-sensor is activated and a collision occurs, current
    footage will be locked automatically to avoid being overwritten
    by loop recording.

⚠ **Collision sensing feature can be adjusted in
   settings under the "G-sensor sensitivity"**

  ○ Manual emergency recording
    Pressing the "emergency recording button" during footage
    recording will lock current footage to avoid being overwritten by
    loop recording.

Snapshot function
  ○ Press the "mode" key during video recording to switch to "photo
    mode"
  ○ Press the "ok" button next to the camera icon to take a
    photograph. This will not disrupt video recording.

⚠ **Snapshot function will only continue to record video
   when it is set to 21:9 and 720p resolution video
   resolution.**

  ○ All photos saved in SD card:\NORMAL folder, same directory as
    the loop recording video files.

Play Mode

① Under photo mode, press "mode" key to access playlist.

② Select Video & Photo then press "confirm" to access "play selection mode".

③ Press "OK" to play Video & Photo. Press "delete" to delete selected Video & Photo.

PC Mode

① Connect machine and computer with mini USB cable.

② Machine will turn on automatically and "USB connected" will be displayed.

③ Computer detects "removable disk".

④ Open "removable disk", there are two folders:

\NORMAL（circular recording file）

\EVENT（Emergency recording file）

⑤ Copy file needed to computer drive.

HDMI output

① Connect machine and output device via HDMI cable.

② Set source of output device as HDMI.

③ Output device will substitute machine screen for display.

④ Image and picture can be played and deleted.

Firmware upgrade

① Log on PAPAGO official website: www.papagoinc.com

② Access "download-car recorder".

③ Download current firmware of GoSafe520 to root directory of MicroSD card then decompressed.

④ Insert MicroSD card into machine card slot after complete copying.

⑤ Plug power and turn on power switch.

⑥ Upgrade menu will be displayed after booting screen, select "yes" for upgrade confirmation.

⑦ LED indicator starts flashing for indication of upgrade.

⑧ Machine will reboot automatically after upgrade is completed.

⑨ Access "setting-version information" to check if the most current version is presented.

⚠ **Before using MicroSD card for upgrading, it is necessary to format it by machine to ensure stable writing and reading.**

⚠ **Do not interrupt power supply during system upgrade to prevent from booting failure.**

Setting

Press "mode setting" during recording mode to access setting mode.

● Video resolution: setting image resolution of image recorded, 2560x1080 30P 21:9 WHD 、 2304x1296 30P 16:9 SHD 、 1920x1080 30P 16:9 HDR 、 1280x720 60P 16:9 HD are available for selection.

● Time Setup: setting system date/time.

● Voice Setup: set simultaneous audio recording.

● Volume: set system volume, off, 20%, 40%, 60%, 80% or100% are available for selection.

● Button Beep: on/off

● LCD Auto off: set time of automatic screen off, there are after 1 and 3 or 5 minutes for selection.

● G-sensor sensitivity: set sensitivity of G-sensor, low, medium, high and off are available for selection.

● EV - Exposure Value: through adjustment of EV value to obtain better recording result under different light source, there are -2.0, -1.7, -1.3, -1.0, -0.7, -0.3, 0.0, 0.3, 0.7, 1.0, 1.3, 1.7, 2.0 for selection.

● Frequency: set environment light source frequency, 50Hzor60Hz are selectable.

● Language: set display language of system, simplified Chinese, Traditional Chinese and English are available.

● Motion Detection: recording will be started when motion detection function activated. If image keep non-moving for more than 60 second, recording will be stopped and switch to detection condition. Machine restarts when image changed. The action is repetitive.

⚠ **If the function is needed after engine turned off, it is necessary to connect external power. It is unavail**

● Delay Power Off: automatic switch off will be carried out in certain time after engine off or power removed when the function is activated. Off, 1, 3 and 5 minutes are available for selection. If functional operation is conducted before automatic delay power off will be cancelled and automatic switch off after 10 minutes of stopping operation.

● Video out format: set video out signal format, NTSC or PAL are available for selection.

● Auto-Hide button: After this function is turned on, in Recording Mode, stop operations master 5 seconds, it will automatically hide the icon, press any key to call up the key icon again to operate.

● Driving Safety:

1. Calibrate:Adjust the devices' angle to overlap the horizon line,Will adjust the image into the best position

2. Traffic Sign Recognition: Equipped with pattern recognition technology to identify the speed limit. Available options are off, mute, Voice or beep.

3. Driver Fatigue Alarm: When activated, the user can setup a defined alarm clock, periodically reminding you to take a rest before continuing to drive. Available options are : 30 minutes/1 hour/2 hours/4 hours/off.

4. Light Reminder: When activated, if driving in a dark environment (such as tunnel or parking structure), it will have an audio alert and display the light alert icon on the screen. The alert can be turned on/off.

5. Stop and Go: When activated, after the car is stopped for 10 seconds the device will start to detect when the car in front has

proceeded to go. When the car in front is driving away, it will give an
audio alert to remind you to begin driving.

● Format prompt: set format notification time, there are 15, 30, 60
days or off for selection.

● Format: the operation will delete all data in MicroSD card.

⚠ **The operation cannot be restored. Back up image or
picture before implementation.**

● Default: restore factory default settings.

● Version info: check current firmware version.

Cleaning and maintenance

● If foreign object adhered on lens, do not touch screen with finger to avoid affecting recording result.

● If foreign object getting into machine, do not disassemble machine and charging cable. Contact manufacturer.

● Remove machine and unplug charging cable when leaving vehicle for a long time.

● Avoid keeping machine on humid or high temperature location.

● In order to ensure performance of MicroSD card, remove it when machine is not used for a long time.

Trouble shooting

● Unable to switch on

　○ Make sure power is supplied or check if battery electric quantity is low.

　○ Pokeresetjack to reboot.

● Image recording is not displayed on screen

　○ Make sure if display is turned off with recording mode. Press screen on/off key to turn on display.

　○ Check if screen saver is activate. Change setting via

"setting-automatic screen off".

● Memory card full

　○ Delete needless image/picture from machine.

　○ Delete needless image/picture using computer.

　○ Format MicroSD card.

⚠ **Deletion and format is un-restorable, back up image or picture before implementation.**

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