Car Camcorder
2ch FullHD 1080P / HD 720P

2CH VVR

120° 1080P front view	130° 720P back view	LOW LUX	-15℃~65℃	
H.264			3D G-Sensor	wifi

3G / 4G / G-Mouse (optional)

Accessories

Standard : (a) 5V cigarette Power adapter
(b) 4 pings, 3.5 inch headphone jack to RCA output cable
(c) IR remote controller (d) Suction cup for bracket holder
(e) Bracket holder (f) Product CD (g) Quick start guide (h) WiFi Dongle

Optional : (a) 8G Class10 Above micro SD Card (8GB/16GB/32BG/64GB/128GB)
(b) External GPS Mouse (4P Phone Jack Connect)
(c) Vertical 90˚ glass vehicle models, such as: tour buses, large trucks,
container trucks, fire engines, can be used with AVM-351 bracket.
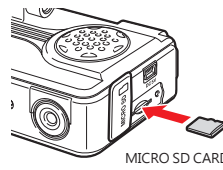
⚠ Safety Precautions

Please Take and review some testing videos initially to make sure the images were recorded correctly. Please note that manufacturer, its subsidiaries and affiliates, and its distributors are not liable for consequential damages arising from any malfunction of main device accessory, including memory device that results in the failure of an image to be recorded or to be recorded in a way that is machine readable.
Before using the product, please ensure that you read the safety precautions described below. Always ensure that the product is used correctly.
• Use only recommended power sources.
• Do not attempt to disassemble, alter or apply heat to the product.
• DO not apply multi cigarette lighter adapters-Applying such devices will cause unstable power input to damage the vehicle video recorder.
• Please always make sure all power connectors are fully secured.
• Avoid dropping or subjecting the product to severe impacts.
• To avoid the risk of injury, do not touch the interior of the product if it has been dropped or otherwise damaged.
• Stop using the product immediately if it emits smoke, a strange smell, or otherwise behaves abnormally.
• Do not use organic solvents such as alcohol, benzene, or thinner to clean the product.
• Do not let the product come into contact with water (e.g. sea water) or other liquids.
• Do not allow liquids or foreign objects to enter the VVR.
• Do not place the VVR near or in direct flame.
• Do not handle the power cord with wet hands.
• Do not use the equipment in a manner that exceeds the rated capacity of the electrical outlet or wiring accessories.
• Do not use if the power cord or plug are damaged, or not fully plugged into the outlet.
• Do not allow dirt or metal objects (such as pins or keys) to contact the terminals or plug.
• Avoid using, placing or storing the product in the humid or dusty areas.

H11AE07D00

Installation

1. Use「suction cup」or「Double-sided adhesive」install device on vehicle front windshield.

Double-sided adhesive

2. Set up the machine in proper position.

3. Adjust the camera view to proper angle

4. Plug the power cable to DC5Vconnect jack

5. Plug in the cigarette adapter.

6. Device wire installation diagram. During the wire installation, avoid set wire on left side above GPS, please set wire through device front hole to vehicle ceiling to get better GPS signal.

Best installation Location

Adapter Connection

★Notices

(1) GPS positioning accuracy may be affected by the installation position, sun-screen or weather condition.
(2) For ensure clarity of video, install device in the wiper washable area.
(3) Automotive front insulation paper with metal components may lead to GPS cannot position.
(4) Infrared ray start-up time and off time depends on the light intensity, which impact by the installation location, first file cellophane ... and other factors.
(5) The day and night mode with a delay of about 30 seconds, into the night mode when activate device.
(6) Before using the memory disk, please format the disk first by the software player. If not, device will automatically erase all data in the memory disk before recording, then recording as default setting.
(7) If the device power consumes more than the standard USB single-hole output 500mA, the computer power supply may be insufficient, and it requires buying additional DC 5V / 1A above the power supply wire.
(8) Devices video output normally divided into two systems: NTSC or PAL. Ensure using suitable system according to different devices and monitors.

Product structure diagram

1. Front camera	5. Force Recording Button	9. Remote Control Receiver	13. USB Jack / WiFi Dongle
2. Video output	6. Recording Light /Red	10. IR LED light	14. MICRO SD Card
3. Power DC5V	7. WiFi connection light/Blue	11. Light Sensor	
4. GPS Mouse External connector	8. GPS indicator/Green	12. Rear camera	

Light indicator

● FORCE: force recording button.
● REC Red light: Stable flicker of red light: On recording
Fast flicker of red light: Force recording
● Wi-Fi Blue light: Blue light stable flicker: Not connect with WIFI, the blue light stable bright: the WIFI is connecting.
● GPS green light: the green light flicker means GPS 3D being positioning, the green light stable bright mean GPS position completed.

Installation of Micro SD card

MICRO SD CARD

Q: Two ways to format the SD card, format and restore. When should you 「format」or「restore」the Micro SD CARD?
Ans:
1. 「Format」Micro SD card: When you use the Micro SD card for the very first time or a brand new card, you should format it in order to use it correctly.
2. 「Restore」Micro SD card: When you have backup the recorded files into PC and want to use the Micro SD card for other purposes, you have to restore it first so it can be used correctly.
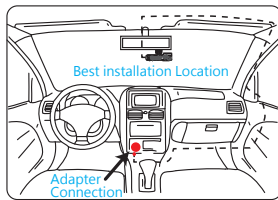
⚠ Caution

(1) To ensure recording quality, please do not use adapter card with Micro SD card. Doing so may lead to bad connection due to shock and vibration
(2) Memory card has life limit. For ensure it working correctly, please test the memory card on PC Player regularly.
(3) Use new memory card insert device, it will doing professional files format about 2 minutes, and then start recording.
(4) After SD card format by device or PC player, 8G, 16G, 32G, 64G or 128G SD card all showing 80.5MB storage space under Windows system, other storage space as hidden files, user have to play video records by professional player that offer by manufacturer. The restore SD card also have to use the manufacturer player refer to format/restore memory card chapter.
(5) The collision and high frequency vibration may cause physical damage to the memory card magnetic field, resulting in video intermittent or unable playback.it is recommended that regular inspection and backup important data.
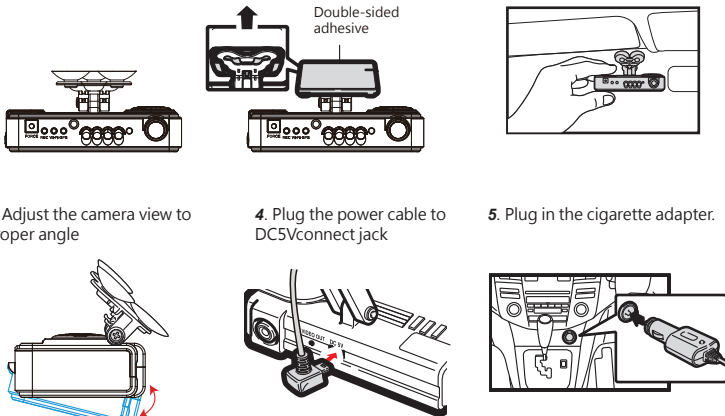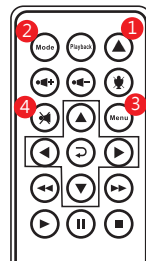
Remote controller
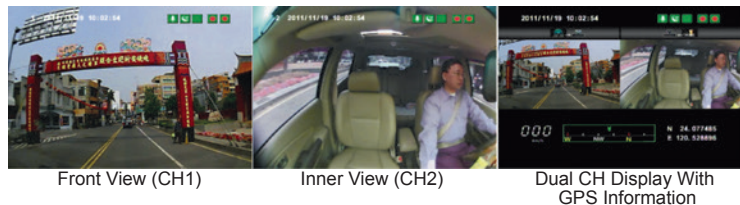
▲ Force recording button: Manually establish a recorded file which cannot be overwritten

Mode button: Full screen / Half screen spilt shift

Menu button: Firmware version of the device displayed

✕ Mute button: Audio recording On/Off

Introduction of OSD Interface

* Video output from connecting TV-OUT line to the device

1. When turns to Live screen, it could click「MODE」via remote control to switch CH1(Front View) or CH2(Inner View), dual CH display with GPS information as shown below:

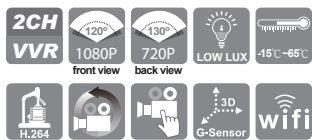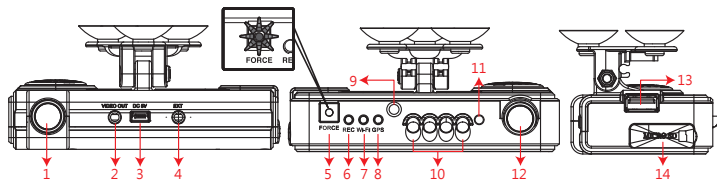Front View (CH1)   Inner View (CH2)   Dual CH Display With GPS Information

Player

Speed display   Play speed

Volume control   Play bar

Operation control interface

🚶 : Close
➖ : Minimal
▥ : Playback
📅 : Calendar
💾 : Backup
📷 : Snapshot
⚙ : Configuration
📝 : Format
⚖ : G-Sensor
🕐 : Compass

行車影音記錄器
HD 1080P / 720P 雙鏡頭

2CH VVR | 120° 1080P front view | 130° 720P back view | LOW LUX | -15℃~65℃
H.264 | | | :3D G-Sensor | wifi

3G / 4G / G-Mouse (選配)

產品配件

標配　(a) 點菸頭轉5v變壓器 (b) 4端點3.5吋耳機座轉RCA影像輸出線材
　　　(c) 紅外線專用遙控器 (d) 支架吸盤 (e) 支架固定座 (f) 產品光碟
　　　(g) 簡易說明書 (h) WiFi Dongle

選配　(a) 8G Class10以上microSD卡（8GB/16GB/32BG/64GB/128GB）
　　　(b) 外接式GPS Mouse(4接點耳機座4P Phone Jack Connect)
　　　(c) 垂直90°玻璃車型，如:遊覽車、大小貨車、貨櫃車、消防車，
　　　　　可搭配AVM-351支架使用

⚠ 安全注意事項

請先試錄影片，然後播放，以確定機器操作正常。請注意，如因本機配件，包括記憶卡的故障，導致不能拍攝影像或不能讀取影像格式而引起的任何損失，本公司、其附屬機構及經銷商皆不負賠償責任。
使用本產品之前，請確定您已閱讀下列的安全注意事項。並請確定您操作產品的方法是正確的。
• 請存放本器材於兒童與嬰兒無法觸碰的地方
• 請只使用建議的電源
• 請勿使用外接式(多孔)點菸器，避免因點菸器電壓不穩導致產品當機、失去電力而無法錄影
• 點菸頭電源與本產品電源頭，請"務必"密合緊實
• 請勿嘗試將產品拆解、改裝或加熱
• 避免使產品丟落地上或受猛烈撞擊
• 要避免受傷，請勿在產品跌下後或損毀時觸碰產品的內部
• 如產品冒煙、發出異味或有其他異常，請立刻停止操作產品
• 請勿使用有機溶劑，如酒精、苯或油漆稀釋劑清潔產品
• 請勿讓產品接觸到水（如海水）或其他液體
• 請勿讓任何液體或異物進入機器
• 請勿將電池置於熱源附近，或暴露於火焰中
• 請勿使用濕手觸碰電源線
• 請將本產品材用於超出指定電壓的電源插座或線路配件。請勿使用損毀的電源線或插頭，或沒有完全插入電源插座
• 請避免端子或插頭接觸到金屬物件（如針或鑰匙）或污漬
• 請避免在潮濕或多塵的地方使用、放置或存放產品

產品外觀

1.對外鏡頭
2.視頻輸出
3.電源DC5V
4.GPS Mouse擴充外接孔
5.手動強制錄影鍵
6.錄影燈/紅燈
7.WiFi連線燈/藍燈
8.GPS定位燈/綠燈
9.遙控器接收孔
10.紅外線LED燈
11.光線感測器
12.對內鏡頭
13.USB孔 / WiFi Dongle
14.MICRO SD卡

燈號示意
● FORCE：強制錄影鍵
● REC 紅燈：紅燈閃爍平穩，表示錄影中；紅燈閃爍快速，則表示強制錄影。
● Wi-Fi 藍燈：藍燈閃爍表示未連線WiFi，藍燈恆亮表示WiFi連線中。
● GPS 綠燈：綠燈閃爍為GPS 3D定位中，綠燈常亮表示GPS 3D已定位。

記憶卡設定

Q：格式化記憶卡分為「格式化」及「還原」兩種方式。
何種情況需「格式化」或「還原」SD卡呢？
ANS：
1.「格式化」SD卡：當取得全新的記憶卡時，
需先將micro SD卡進行格式化後，才可使用於
行車記錄器；或利用行車記錄器附贈之軟體將
micro SD卡進行格式化後，才能進行錄影。
(記憶卡若未先使用專用播放軟體進行格式化，
則機器會將整張記憶卡內資料強制清除後再開始錄影。)
2.「還原」SD卡：當攝錄完之SD卡影像記錄，已將檔案備份於電腦內，
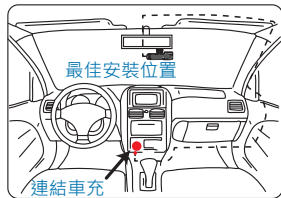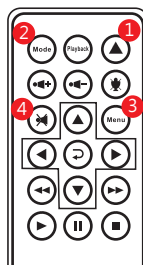而SD卡需做其它儲存用途時，此時SD卡需先進行還原動作，
方可移做它用!
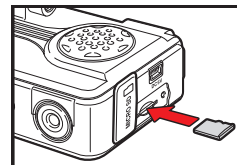
MICRO SD CARD

注意事項
(1) 請勿使用MicroSD卡轉SD卡進行錄影，以免因震動導致轉接卡接觸不良而產生錄影異常。
(2) 記憶卡有讀寫次數與壽命問題，建議定期檢查與使用電腦播放影像，確保記憶卡仍可正常讀寫
(3) 使用新卡片插入主機時，會依卡片容量大小進行專業檔案格式化，約2分鐘後進行錄影系統
(4) 記憶卡無論8G、16G、32G、64或128G，經過本機或播放器格式化後，於Windows作業系統所看到的儲存空間只有80.5MB，其餘為隱藏檔格式，必須使用專業播放器才能播放影片，若要將卡片還原需採用播放器並參考卡片格式化還原章節。
(5) 於撞擊及與高振動時，有可能會導致記憶卡磁區物理性損毀，導致播放斷斷續續或無法撥放問題，建議定期檢查與備份重要資料。

安裝示意圖

1. 使用「吸盤式」或「貼架式」連結主機至汽車前擋風玻璃上。　背膠黏接處　2. 安裝主機於最適位置

3. 調整錄影視野角度於最佳位置　4. 將電源插入DC連接孔　5. 將變壓器插入點菸器位置

6. 行車記錄器安裝線路示意圖，線材安裝時，盡量不要將線材繞過機器左側GPS正上方，請由機器前方孔位配線到汽車天花板。可以得到較佳的GPS訊號。
最佳安裝位置
連結車充

★注意事項
(1) GPS定位時間會受到汽車前擋隔熱紙、天候狀況...等因素影響。
(2) 機器安裝時，需安裝在雨刷可以清洗到的區域，以確保錄影畫面清晰度。
(3) 汽車前擋隔熱紙帶有金屬成分可能導致GPS無法定位狀況。
(4) 紅外線啟動時間與關閉時間由光線強度，會受到安裝位置、前擋玻璃紙...等因素影響。
(5) 日間與夜間模式有延遲約30秒機制，開機時會先進入夜間模式
(6) 記憶卡若未先使用專用播放軟體進行格式化，則機器會將整張記憶卡內資料強制清除後，再以機器預設值開始錄影。
(7) 機器耗電流超過標準USB單孔輸出500mA，因此連接電腦供電可能不足，需另購輸出DC 5V/1A以上供電線材。
(8) 機器本身有區分NTSC機種或PAL機種，影像輸出的連接需使用可以支援對應系統的螢幕。

遙控器

(▲) 強制錄影鍵: 可手動進行影片鎖檔保存，不被後續影像覆蓋
Mode 鍵 ：單畫面、2分割畫面切換
目錄鍵 ：顯示本機韌體版號
靜音鍵 ：檔案錄音功能選擇鍵

本機迴放操作

註：本機需接上TV-OUT影像輸出，方可進入Live畫面。

1. 在LIVE畫面點選遙控器的「MODE」鍵，可進行切換對外影像CH1、對內影像CH2、對外影像&對內影像顯示。

CH1/車外影像　　CH2/車內影像　　2分割畫面顯示

PC播放器

CH1
CH2
時速表　　播放速度
CAR SPEED　VIDEO SPEED
音量控制　　播放BAR
控制介面

關閉程式
縮閉視窗
開啟影片
事件行事曆
磁碟備份
擷圖工具
配置，設定機器相關設定.
工具列，可做記憶卡格式化、語言設定
3軸加速感測器
羅盤，經緯度顯示