

4/8 ch Vehicle DVR System

GPS / 4G (optional)



* The company reserves the right to modify this product manual without prior notice. The product screen display and operation content should be based on the actual machine.

Accessories

The following accessories include in the standard package

1. 5A fuse power cable x 1
2. I/O cable x 2
3. Remote Control x 1
4. GPS/GNSS active antenna x1

Optional accessories

1. 7" LCD Monitor
2. G-MOUSE
3. Temperature
4. RFID Reader
5. IR Extension Cable

Safety Precautions

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Take and review some testing video 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.

- Please keep device away from children.
- Use only recommended power sources.
- Do not attempt to disassemble, alter or apply heat to the product.
- 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 dry 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.

Before using 4G products, please ensure that you read the safety notifications described below.

- Company and user shall not modify certified low power radio frequency device the frequency, increase the power and change the characteristics and functions without permit.
- Use low power radio frequency device shall not affect flight safety and interfere with legal communications; when there is interference happened should be immediately suspended, and improve without interfering may continue to use.
- Legal communication means operation of radio communication in accordance with the provisions of the Telecommunications Act Low-power radio frequency device must endure the interference of legal communications, industrial, scientific and medical radiation wave equipment.

Product Appearance

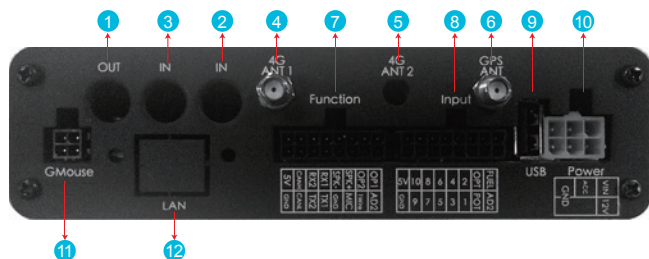
※ GPS / 4G are optional

4CH / 8CH DVR Front panel



1. SIM Slot
2. Power / Record Light
3. GSM Light
4. GPS Light
5. SD Card Slot 2
6. SD Card Slot 1
7. IR Receiver
8. IR Extension Jack

4CH / 8CH DVR Rear Panel



1. Video Output (VGA/CVBS)
2. 1~4CH Camera Ports
3. 5~8CH Camera Ports
4. 4G Antenna 1
5. 4G Antenna 2 (Reserved)
6. GPS/GNSS Antenna
7. Functional I/O Ports
8. Signal I/O Ports
9. USB Slot
10. Power Port
11. G-Mouse
12. RJ45

Power On / Power Off

* Before the first recording, please set the video format.

- (1) Power On
Put the SD card into the SD card slot and close the SD card slot lock, then turn on the power and it will take approximately 30 seconds. When lights start flashing as the recording is in progress.
- (2) Power Off
Turn off the power; please wait for 3 seconds until super capacitor without electricity. Then take the SD card out and playback the recording files in computer.

Light Indicator

- Record Light (red): Not flashing: Not recording
Light flashing: Recording
Rapid flashing: Event recording
- GPS Light (blue): Light flashing: Not connected
Light On: Connected.
- Network Light (green) : Light Off: Not connected
Light flashing: Connected
Light On: Connected to the server

SD Card Mode

When both cards are empty cards, the recording priority is SD1. If there is video data in the SD card, the latest video file data is preferred.

Note : If the playback function is used on the local player, simultaneous recording cannot be performed.)

IR Remote controller



Remote Control Precautions

- Remote control inspection
- ✓ Check the battery's positive and negative polarity.
- ✓ Check the battery if run out.
- ✓ Check the sensor of remote control if be obscured.
- ✓ Check if there are fluorescent lamps are used nearby.

Signal I/O Ports



Contact	Item	Description	Note2
1	AD	Analog 2	A
2	PTO	PTO	D
3	IN1	IN1	D
4	IN3	IN3	D
5	IN5	IN5	D
6	IN7	IN7	D
7	IN9	IN9	D
8		GND	P
9	FUEL	Fuel analog1	A
10	OPT	R.P.M.	D
11	IN2	IN2	D
12	IN4	IN4	D
13	IN6	IN6	D
14	IN8	IN8	D
15	IN10	IN10	D
16	5V	5V Output(always)	P

Note 1: (IN1-10 Alarm Function Definition)

Note 2: (Signal source definition: A is an analog signal; D is a digital signal; P is power signal.)

功能I/O埠

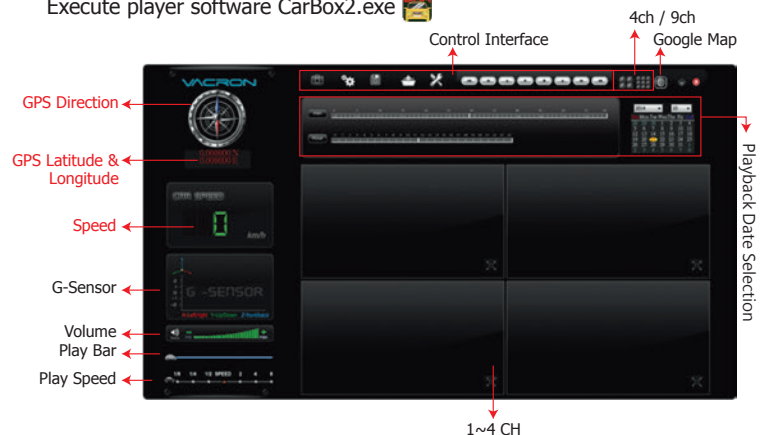


Contact	Item	Description	Note
1		GND	P
2	ONEWIRE	One Wire Device	D
3	MIC+	Microphone IN	Ai
4	MIC-	GND	D
5	RS232 TX1	RS232 TX1	Do
6	RS232 TX2	RS232 TX2	Do
7	CAN-L	CAN Bus_L	D
8		GND	P
9	OUT1	OUTPUT1 sink 1A/50v	
10	OUT2	OUTPUT2 sink 0.5A/50v	
11	SPK+	Audio out	Ao
12	SPK-	Audio out	Ao
13	RS232 RX1	RS232 RX1	Di
14	RS232 RX2	RS232 RX2	Di
15	CAN-H	CAN Bus_H	D
16	5V	5V Output (controlled)	P

CARBOX Player on PC

*Support windows operating system

Execute player software CarBox2.exe



* GPS Direction / GPS Latitude & Longitude / Speed for GPS models.

4 / 8 CH 車用監控系統

GPS / 4G (optional)



* 本公司保有修改本產品說明書之權益，恕不另行通知，產品畫面顯示與操作內容請以實機為主。
* SD 卡請自行選購，建議使用8G~256G class10以上之記憶卡。

產品配件

- 本產品包含以下配件:
 - 5A fuse 電源線 x1
 - I/O 線 X2
 - 遙控器 X1
 - GPS/GNSS active antenna x1
- 搭配選購配件:
 - 7" LCD
 - G-MOUSE
 - Temperature
 - RFID Reader
 - IR 外接線

安全使用注意事項

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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，包括硬碟、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
- 請勿嘗試將產品拆開、改裝或加熱
- 避免使產品去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
- 請勿將本器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

使用4G產品功能前，請確定您已閱讀下列的安全注意事項。

- 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
- 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。
- 前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

錄影及停止錄影

★第一次錄影前請先設定錄影格式

(1) 開機

將SD 卡裝入本機端的SD 卡插槽內，並鎖上防塵鎖，再將電源啟動，等待約30秒後，燈號亮起後，即開機完成。

(2) 關機

將電源關閉，須等待約3 秒待燈號完全熄滅後，此時才可將SD 卡取出至電腦端讀取所錄影的檔案。

燈號示意

- 錄影燈號(紅燈)：無閃爍，表示沒有進行錄影。
燈號閃爍，表示錄影中。
燈號快速閃爍，表示觸發事件錄影。
- GPS燈號(藍燈)：燈號閃爍，表示GPS未定位。
燈號恆亮，表示GPS定位完成。
- 網路燈號(綠燈)：燈號滅，表示網路不通。
燈號閃爍，表示網路已連線，但無法與Server連線。
燈號恆亮，表示已連上Server。

SD卡模式

當雙卡皆為空卡時，錄影優先權為SD1，若SD卡裡有錄影資料時，則以最新錄影檔案資料為優先

(註：若在本機端使用回放功能時，則無法同時進行錄影。)

遙控器



遙控器使用注意事項

- 遙控器異常檢查
- ✓ 檢查電池的正負極性
 - ✓ 檢查電池電量是否用完
 - ✓ 檢查遙控感測器是否被遮住
 - ✓ 檢查附近是否有螢光燈正在使用

產品外觀

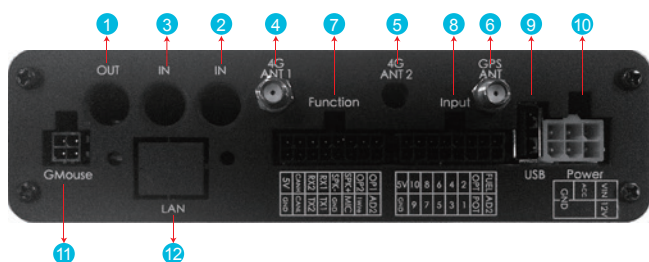
※ GPS / 4G 功能為選配

4CH / 8CH DVR 面板



1. SIM卡插槽
2. 電源/錄影燈號
3. GSM 網路燈號
4. GPS 燈號
5. SD 卡插槽2
6. SD 卡插槽1
7. 紅外線接收器
8. 紅外線接延伸孔

4CH / 8CH DVR 背板



1. 影像輸出(VGA/CVBS)
2. 攝影機連接埠1-4CH
3. 攝影機連接埠5-8CH
4. 4G天線1
5. 4G天線2(預留)
6. GPS/GNSS天線
7. 功能I/O埠
8. 訊號I/O埠
9. USB插槽
10. 電源連接埠
11. G-Mouse
12. RJ45網路埠

訊號I/O埠



接點	標識名稱	描述	Note2
1	AD	Analog 2	A
2	PTO	PTO車速訊號	D
3	IN1	IN1	D
4	IN3	IN3	D
5	IN5	IN5	D
6	IN7	IN7	D
7	IN9	IN9	D
8	GND	GND	P
9	FUEL	Fuel analog1 油量	A
10	OPT	R.P.M轉速訊號	D
11	IN2	IN2	D
12	IN4	IN4	D
13	IN6	IN6	D
14	IN8	IN8	D
15	IN10	IN10	D
16	5V	5V Output(always)	P

Note 1: (IN1-10 Alarm功能定義)

Note 2: (訊號源定義: A為類比訊號, D為數位訊號, P為電源訊號)

功能I/O埠



接點	標識名稱	描述	Note
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2	ONEWIRE	One Wire Device	D
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15	CAN-H	CAN Bus_H	D
16	5V	5V Output (controlled)	P

電腦端播放器

★支援WINDOWS作業系統

1. 執行播放軟體CarBox2.exe 利用儲存裝置進行檔案回放，播放畫面如下圖所示



★「GPS方位與座標」、「時速資訊」、「Google Map」需搭配具有GPS功能機種。