

2CH H.264 HD Motorbike Video Recorder

Operation Manuel



2ch DVR



OBD
(Optional)



HD Camera*2

2016 OCT. V1.0

2-Channel Mobile Video Recorder



OBD(optional)



HD Camera



Menu

A.	Packaging.....	4
B.	Characteristics:.....	5
C.	Specification Sheet.....	6
D.	Product/Size	8
E.	SD Card Installation.....	10
F.	Cable Installation.....	12
G.	Installation diagram	14
H.	Recording / Stop recording	17
I.	PC player	19
J.	Data backup.....	22
K.	Configuring the Memory Disk	24
L.	Google Map Map track playback	26
M.	Data Playback	27
N.	Image Snapshot.....	28
O.	Format / Restore Memory card	29
P.	WiFi Connection	31
(a)	QR Code download :	31
(b)	Android:	31
(c)	IOS.....	36

Safety Precautions

TO Whome It May Concern

Thanks for your patronage. Please contact your local dealer for any assistance. We will backup services via local dealers. Rights are reserved to upgrade software and hardware without notice beforehand.

Please read this manual prior to use of this product.

Installation Precautions

- Make sure power connections clear enough to you before installation.
- System installation is required professional installers and ventilation sapc.
- Please use recommended and genuine storage device.
- Please contact local dealers in case of service requirement.

In Use Precautions

- Please keep the inner components off any solid or liquid.
- Please do not disassemble the equipment for warranty issue
- Please remove the battery if remote control keeps idle for quite a long while.
- The equipment best connects with ground wire in case of outdoor cameras connection or alarm I/O connection. This is to keep the DVR away from static electricity damage.

Surrounding

- Please have the DVR under recommended temperature away from the sun and heating source. °
- Please keep this equipment away from humid surrounding.
- Please keep this equipment away from smoke and dust.
- Please do not drop the equipment.
- Please keep this equipment in ventilation space.
- Please supply rated voltage and Amp. To the equipment.
- Please keep flammable objects away from the equipment.

A. Packaging

Before installation, Please check all Accessories(Showed below). If there is any missing part please contact the local dealer.

※SD card (optional) ◦

Accessories:

1. DVR Host
2. HD camera *2
3. WiFi dongle
4. Camera cable 2.5meter*2
5. Power cable

Optional Accessory:

1. OBD
2. SD card, 8/16/32G Class10 or above

B. Characteristics:

1. Small independent system, 2 channels video.
2. H.264 compression format, HD video resolution.
3. Low power consumption and efficient dissipation, no build-in Lithium battery to prevent possible danger and heat explosion.
4. Devices starts recording automatically when engine is on, file is well formatted and saved securely with extension recording by super capacitor.
5. External USB WiFi dongle · through APP for live view /playback and video download

C. Specification Sheet

DVR Host

Item	Specification	
Resolution	2CH 720P@30FPS	
Display Mode	2CH Camera	
Mode	Record/Play	
Resolution	Display	1280x720
	Record	1280x720
Copy/Record	SD	
OBD	4 LED (WIFI、REC、GPS、power) Optional	
Host light	REC	
Signal Notice	YES	
SD card	YES	
OBD	Optional	
G-SENSOR	YES	
WIFI	WIFI Dongle	
System	Recording automatically when engine is on	
Built-In super capacitor	YES	
Power Consumption	DC 12V	
Temperature Tolerance	-21°C~60°C	

Motorbike Camera

Item	Specification
Power	DC5V~DC12V±10% input
	Power Consumption 500mA
Resolution	Support NTSC/PAL @ HD 1280x720
	30FPS
Image Sensor	1/4" CMOS sensor
View Angle	H:110° / V: 55° / D: 130°
Lens	2.0mm
Temperature Tolerance	Operation : -20°C ~ 60 °C(In disclosed space)

	Storing temperature : -40 °C ~ 85 °C
Output terminal	Micro Din
Dust & Water proof	IP67
Size	30x43x50mm

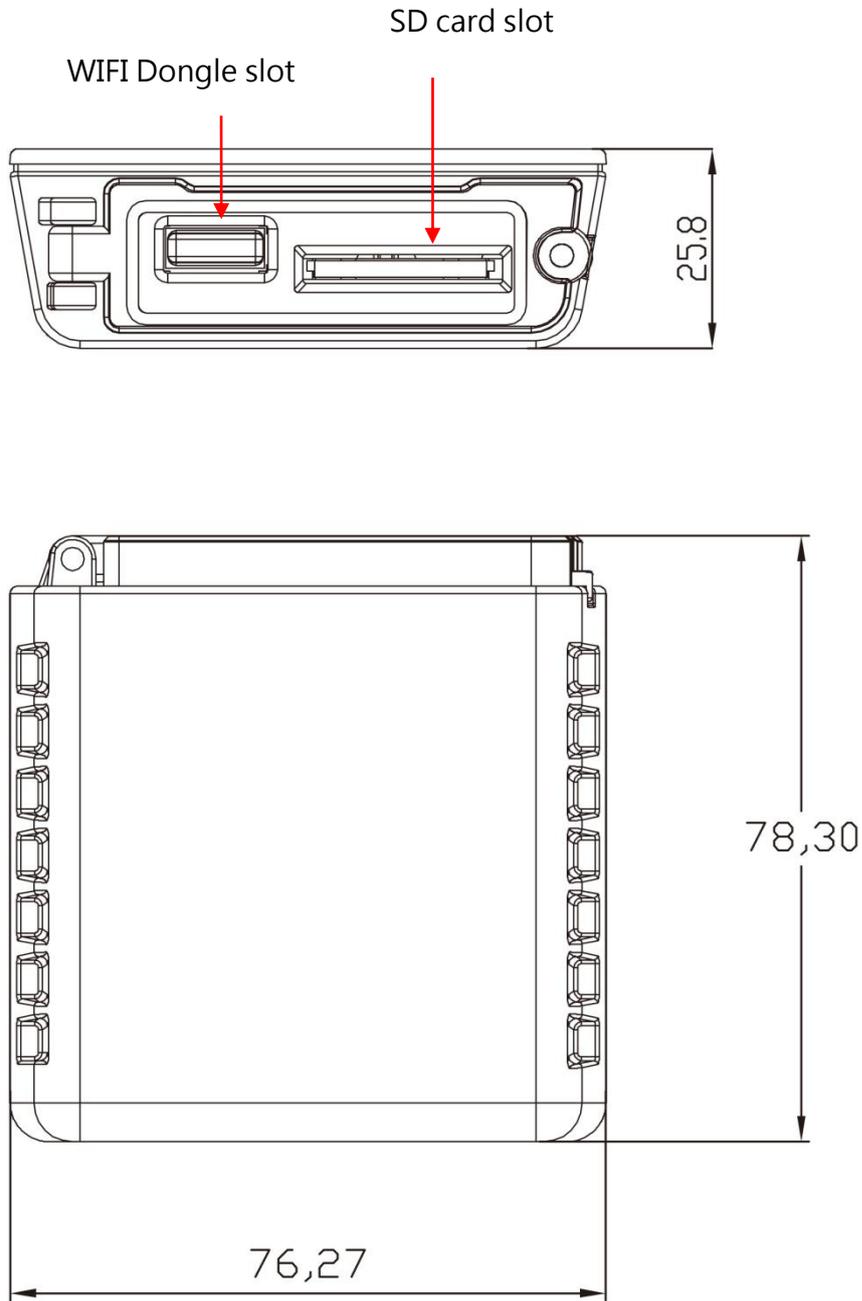
OBD (Optional)

Item	Specification
Light	4LED (WIFI 、 REC 、 GPS 、 Power)
GPS	YES
Signal Notice	YES
Microphone	Audio input

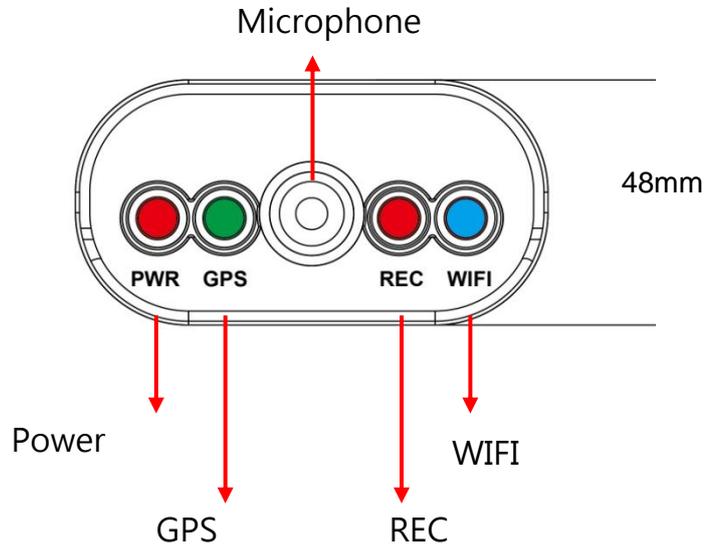
★There will not be any notice of the different specification, thank you for your understanding
SD Card is not include!!

D. Product/Size

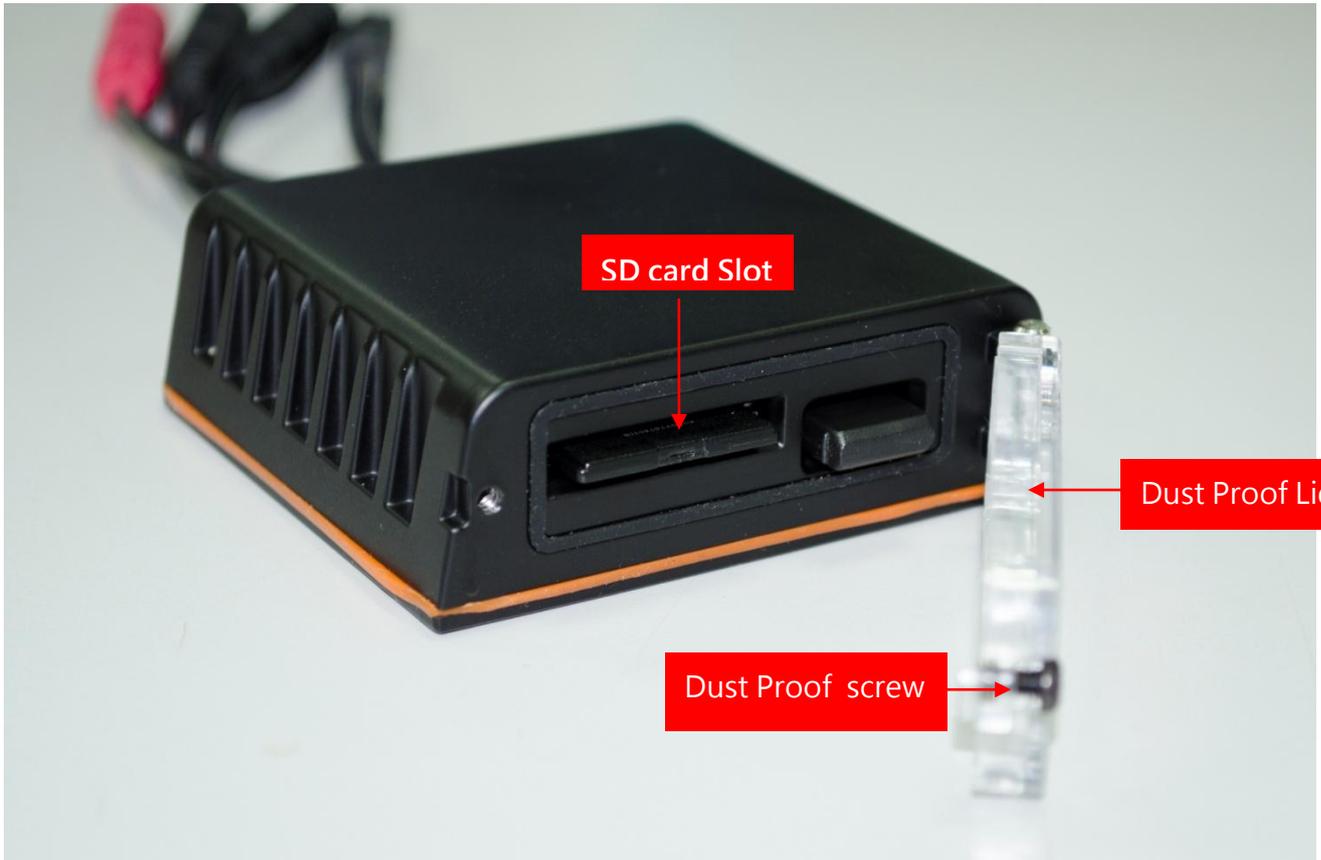
DVR Host unit : mm



OBD(Optional) unit : mm



E. SD Card Installation



- (1). Counterclockwise to unscrew the screw of dustproof lid to install/take off the SD card.
- (2). Please do SD card format/ restoration with attached player.



Attention

1. Suggest to use class 10, 8GB above.
2. Before using the memory disk, please format the disk first by using the software player in the CD-ROM. If not, device will automatically erase all data in the memory disk before recording.
3. 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.
4. All memory disks have limited lifespan. Please regularly watch videos

- on PC and check the memory disk to ensure proper functioning.
5. Collision and vibration may cause SD card defective and result intermittent recording, please check data and backup file periodically.
 6. New SD card will be format by DVR, it will take about 2mins, before start recoding.
 7. SD card 8G · 16G · 32G or 64G · after format by DVR · there will be only 80.5MB can show on PC by Windows system, rest of those space can only showed by Vacron Player. To restore SD card again, please use the Vacron software and follow the steps. °
 8. When even happened, pleas teak off the SD card and lock it, to avoid overwrite.

F. Cable Installation

- DVR Cables



- (1) Camera 1 connector
- (2) Camera 2 connector
- (3) Multi-functional OBD display connector
- (4) Power Connector

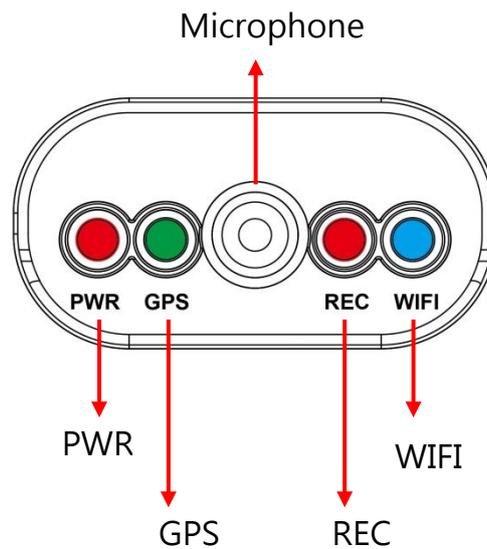
Note : Please use 720P AHD camera

- **Power Cable**



(a) (RED): Connect to positive electrode
 (b) (Black): Connect to negative electrode

- **OBD(Optional)**



(A) PWR(Red) : Power indication

(B) GPS(Green) : Flashing mean GPS 3D positioning searching.
 Consistent green light on means 3D positioned successfully.

(C) Microphone : Audio input

(D) REC(RED) :

Recording : Light flashing once per second.

Unable to read SD card: Light flashing once every 15 seconds.

(E) WIFI(Blue) : Consistent blue means WIFI Dongle connected · flashing blue means WIFI Dongle is not connected.

G. Installation diagram

Installation on Motorbike (Example Only)



Installation Notes

- (a) Please install this device with the help of professional technician to avoid damaging your vehicle.
- (b) For installation by none-technician, please use tapes instead of boring tools to avoid damaging the electrical and gasoline system.
- (c) For safety, switch off ignition before installation, and please keep away from gasoline pipeline and tank.
- (d) Before inserting wires through holes, temporarily wrap the terminal with tape to prevent bad connection from accumulated dirt or debris.
- (e) Tightly seal all electrical connection with tape to prevent loose connection or leak leaking to the connection.
- (f) Connect the power behind the key ignition and fuse (not directly to the vehicle battery) to avoid depleting the battery.
- (g) The device should be fixed to the vehicle. Tumbling inside the storage trunk will

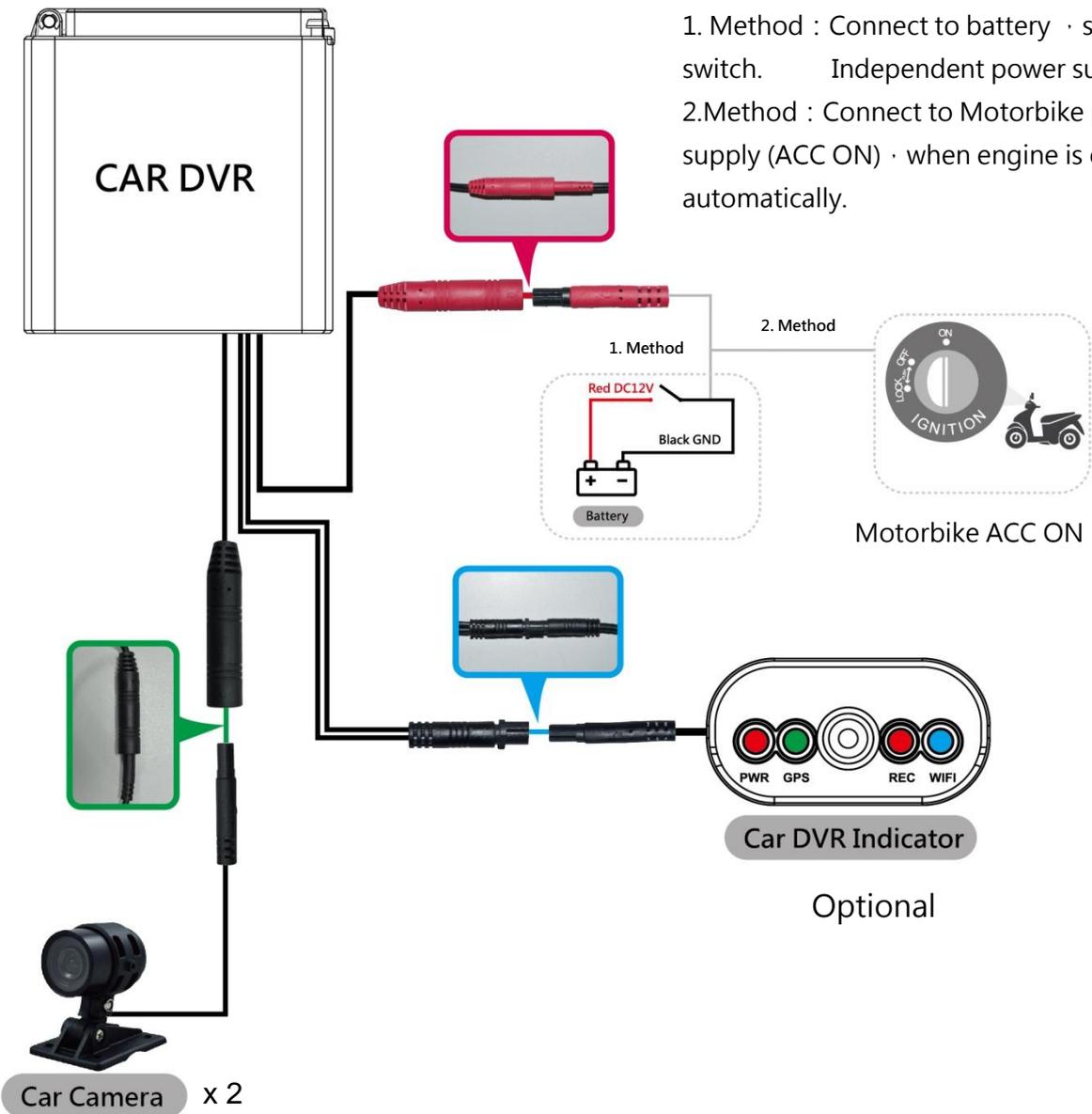
damage the device.

- (h) GPS positioning accuracy may be affected by the installation position, sun-screen or weather condition.

Attention

- (a) DVR & OBS (Optional) are waterproof, but it cannot be soaked in water. Suggest install DVR in truck and OBD at the place where is easy to see.
- (b) Some of cars might have electromagnetic interference problems, might effected DVR 's recording and Video image.
- (c) Wipe and clean the connector by alcohol, avoid any single error or video lost.
- (d) Not all the SD card can be read by DVR, if the SD card cannot be read after format / restore. Please change other brand' s SD card and try it again.
- (e) DVR will be power consumption when standby, therefore please take off power supply if not going to use DVR for long period. And date & time need adjustment when it is connect again.
- (f) If the SD card is not format by Vacron Player, DVR will automatically clean all memory inside also format it. Some DVR might not recording if the SD card is not been format.
- (g) Software updates and renew, there will not be further notice.
- (h) All memory disk & SD card have limited lifespan. Please regularly watch videos on PC and check memory disk to ensure proper function.
- (i) Through huge impact or shock, might damage disk or SD' s memory. Therefore suggest backup data regularly.
- (j) When even happened, pleas teak off the SD card and lock it, to avoid overwrite. Before install the camera, for safety please make sure power switch is off

DVR Installation Diagram

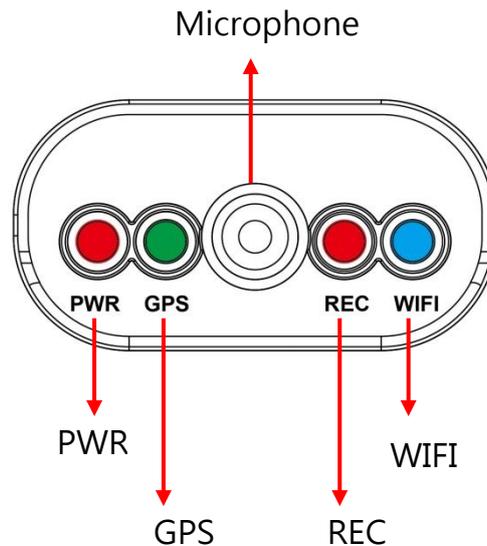


- 1. Method : Connect to battery · set up the switch. Independent power supply
- 2. Method : Connect to Motorbike power supply (ACC ON) · when engine is on turn on automatically.

H. Recording / Stop recording

1. System initialization/Recording:

System initializes within 30 seconds when power is on. PWR red light on when system is rebooting. System starts to recording when REC red light is flashing.



Light Indication:

(A) PWR(Red) : Power indication

(B) GPS(Green) : Flashing mean GPS 3D positioning searching.

Consistent green light on means 3D positioned successfully.

(C) Microphone : Audio input

(D) REC(RED) :

Recording : Light flashing once per second.

Unable to read SD card: Light flashing once every 15 seconds.

(E) WIFI(Blue) : Consistent blue means WIFI Dongle connected · flashing blue means WIFI Dongle is not connected.

2. Shut off / Stop recording

Device offer prolong 3 seconds recording after power off to ensure date is well stored, user can take out the SD card when indication is off.



ATTENTION

For those who do not have OBD:

All memory disks have limited lifespan. Please regularly watch videos on PC and check the memory disk to ensure proper functioning.

Collision and vibration may cause SD card defective and result intermittent recording, please check data and backup file periodically

I. PC player

Run the player software  (included in the CD) :

* Notes:

- (a) To do this, the software should be installed DirectX 9.0 or above.
- (b) Support OS: WINDOWS 7,8,10, does not support MAC OS.
- (c) The recommended hardware requirements: i3 above grade 2.7GHZ, RAM: 4G or more, more preferably independent display card.

1. Viewer Interface



1	Function control interface
2	Google Map / File list
3	Car speed
4	Volume control
5	Play speed
6	Time bar/ File mark
7	Operation control interface
8	CAM1
9	CAM2

2. Function Description

	Close
	Minimal
	Play back
	Calendar
	Backup
	Snapshot
	Configuration
	Format
	G-sensor
	Compass

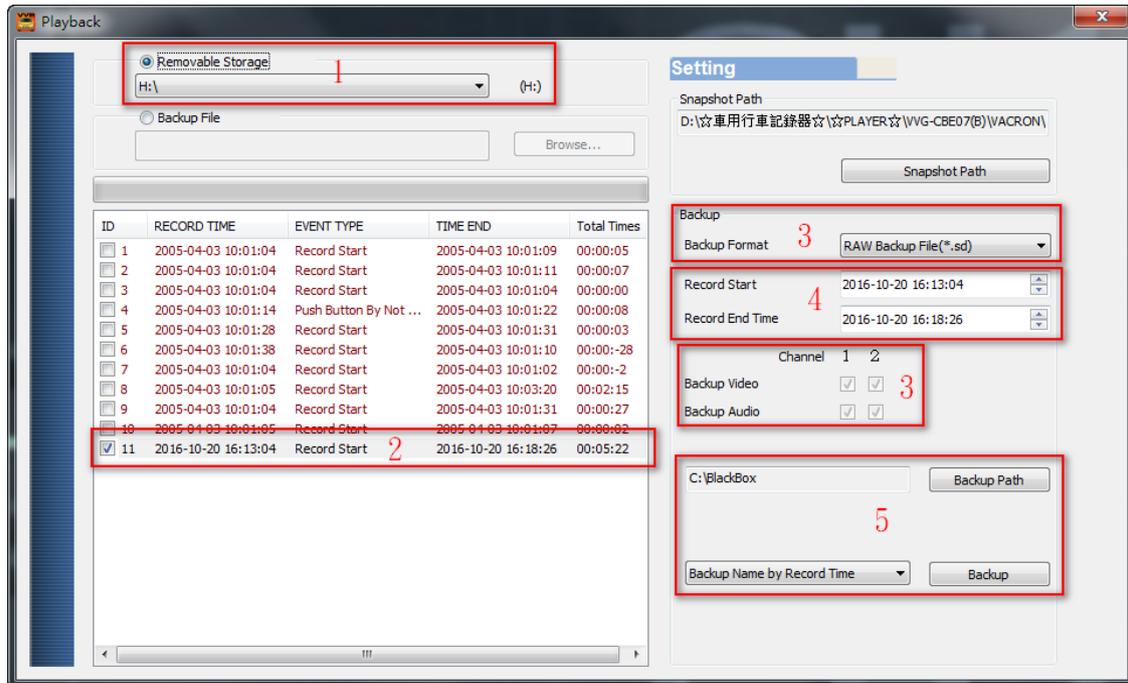
3. Play & Setting Icon Instruction

	Play previous file		Stop
	Play previous frame		Play
	Play backward		Play next frame
	pasue		Play next file

J. Data backup

Save data from SD card to PC or other device.

Use PC player and click  to enter backup interface:



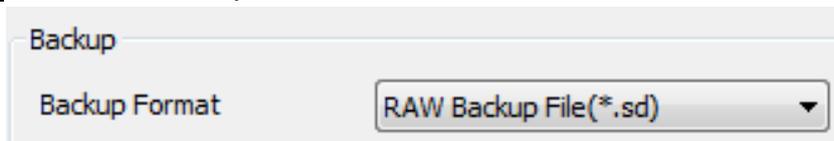
Step1. Choose SD card source:



Step2. Choose backup files

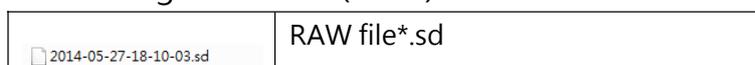
ID	RECORD TIME	EVENT TYPE	TIME END	Total Times
<input type="checkbox"/>	2005-04-03 10:01:04	Record Start	2005-04-03 10:01:09	00:00:05
<input type="checkbox"/>	2005-04-03 10:01:04	Record Start	2005-04-03 10:01:11	00:00:07
<input type="checkbox"/>	2005-04-03 10:01:04	Record Start	2005-04-03 10:01:04	00:00:00
<input type="checkbox"/>	2005-04-03 10:01:14	Push Button By Not ...	2005-04-03 10:01:22	00:00:08
<input type="checkbox"/>	2005-04-03 10:01:28	Record Start	2005-04-03 10:01:31	00:00:03
<input type="checkbox"/>	2005-04-03 10:01:38	Record Start	2005-04-03 10:01:10	00:00:-28
<input type="checkbox"/>	2005-04-03 10:01:04	Record Start	2005-04-03 10:01:02	00:00:-2
<input type="checkbox"/>	2005-04-03 10:01:05	Record Start	2005-04-03 10:03:20	00:02:15
<input type="checkbox"/>	2005-04-03 10:01:04	Record Start	2005-04-03 10:01:31	00:00:27
<input type="checkbox"/>	2005-04-03 10:01:05	Record Start	2005-04-03 10:01:07	00:00:02
<input checked="" type="checkbox"/>	2016-10-20 16:13:04	Record Start	2016-10-20 16:18:26	00:05:22

Step3. Choose backup data format



Data format :

(1)SD card original format(RAW)



(2)AVI Format(*.avi)

 2014-05-27-18-11-07-Cam1.avi	Cam1, *.avi file
--	------------------

Note : backup to memory card in original format, the format will be containing GPS latitude and longitude, speed, recorded data such as G-SENSOR, if the backup data in *.AVI format, it contains only video and audio, so back up in original format is recommended.

Step4. Select the backup beginning time point

Record Start	2016-10-20 16:13:04	<input type="button" value="▲"/>	<input type="button" value="▼"/>
Record End Time	2016-10-20 16:18:26	<input type="button" value="▲"/>	<input type="button" value="▼"/>

Step5. Select the path and start backing up

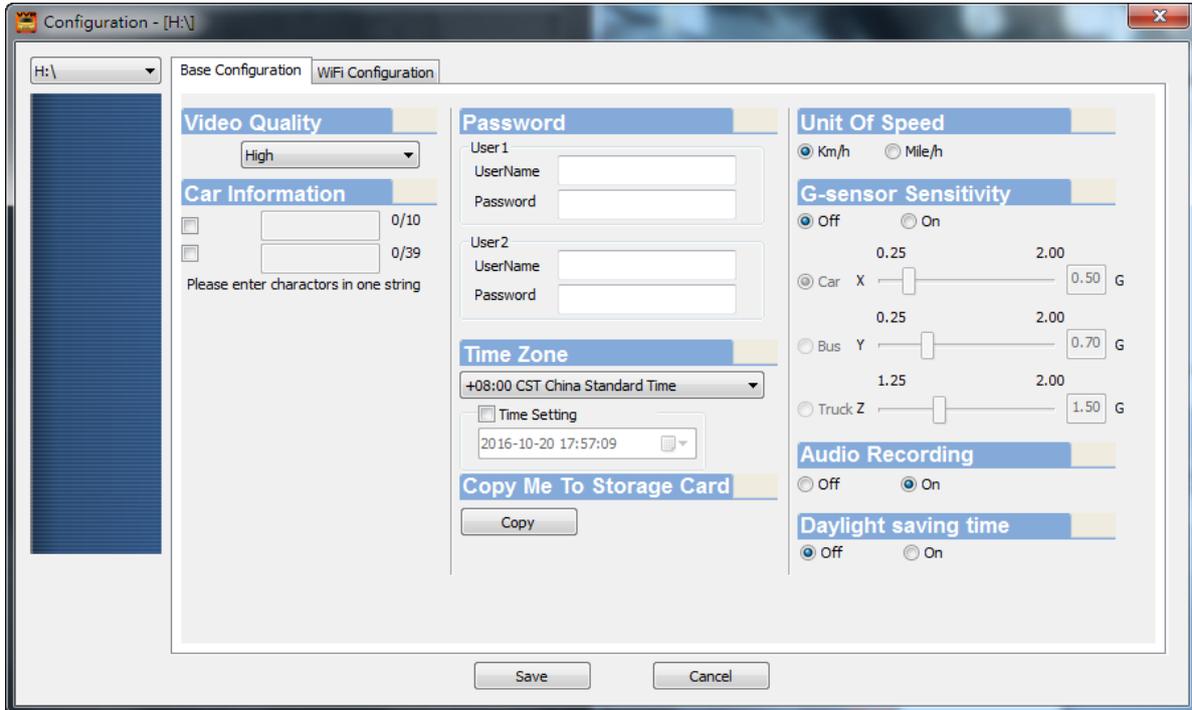
<input type="text" value="C:\BlackBox"/>	<input type="button" value="Backup Path"/>
<input type="text" value="Backup Name by Record Time"/>	<input type="button" value="Backup"/>

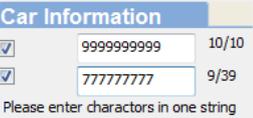
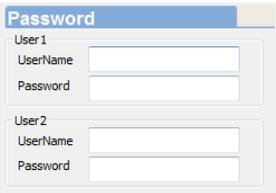
K. Configuring the Memory Disk

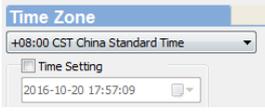
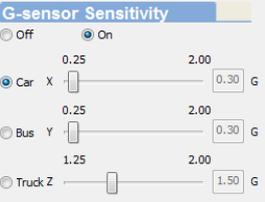
Please insert SD card into card reader and launch player on your computer to do card formatting

Click  on player to do setting:

Choose disk



1	Video Format		Select video recording resolution
2	Car machine message		Identification message, can input car palte number or driver' s name...etc.
3	Password Management		<p>This feature can encrypt the memory Card and to prevent unauthorized access Password length allows to 15 characrers User have to key in password for video Playback, settings, memory card format After password is set.</p> <p>Note: Please keep password in safe and Remembered place, SD card is accessible Only when key in correct password and no other way to unlock the file.</p>

4	Time Setting		Please manual adjust time when in no GPS cover environment. Time zone Would automatically calibrated to GMT time when GPS connect.
5	Copy to SD Card player		Copy Player to SD card storge
6	G sensor		Use X-Y-Z axis vibration detection to Determine the collision and forced Recording.
7	Sound Rcording		Set audio record: OFF/ ON
8	Daylight saving Time		Daylight Saving Time: The practice of advancing clock during summer Months by one hour so that evening daylight lasts an Hour longer, while sacrificing normal sunrise times.

L. Google Map Map track playback

If there' s GPSS recording, user will be able to read driving path, direction, speed information when doing video playback.

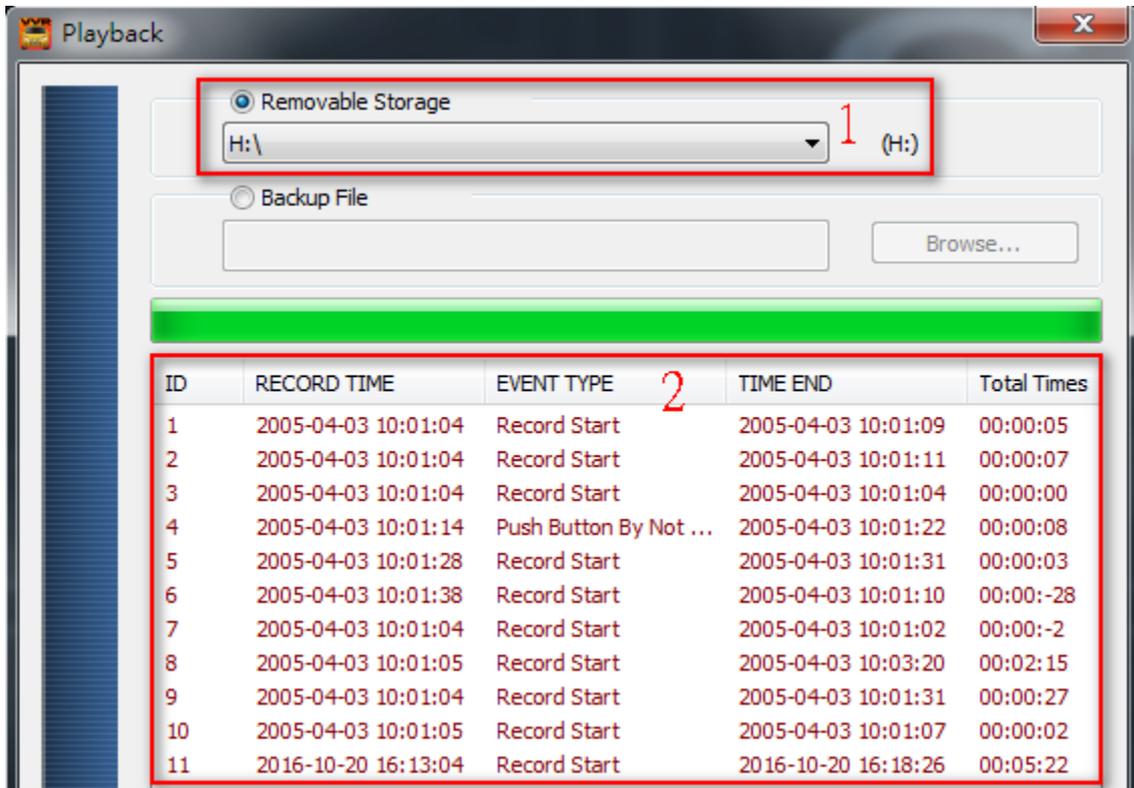


Tracking path

M. Data Playback

Playback on PC player

Click  to enter playback mode:



(1). Select the path of the memory disk or a backup file on the hard disk.

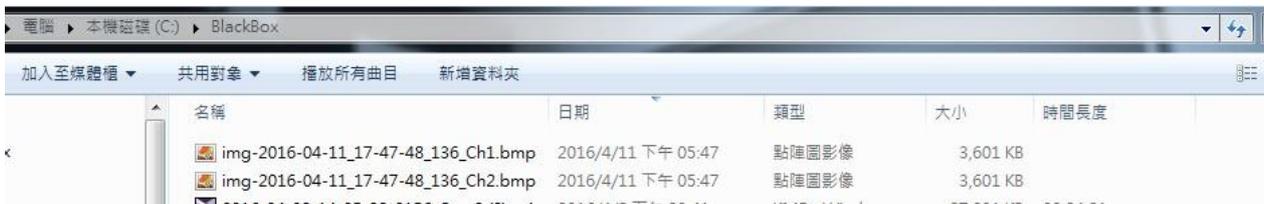
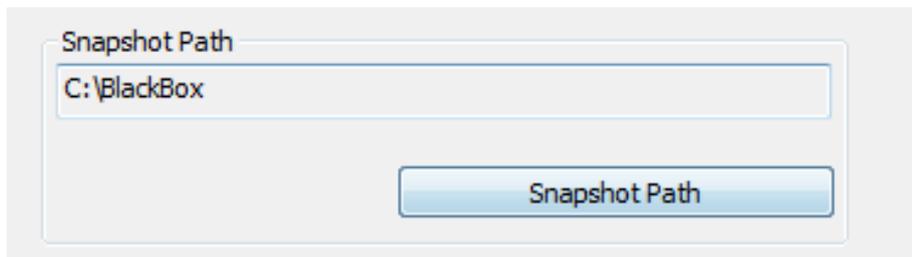
(2). Double click the desired footage to play the file.

N. Image Snapshot

User can take a snapshot of the current frame by pressing  to save screenshot.

The player will save the file to *.bmp format and open the destination folder:

Snapped image is default saved to /Snaopshot, user can enter  to set image path. Data format is *.bmp



O. Format / Restore Memory card

Q1. When do user need to format SD card?

When user uses brand new SD card, please format it before use.

★Backup the date, before formatting SD card.

Q2. When do user have to restore SD card?

If you want to repurpose the memory disk for other uses(e.g for computer or digital camera), you need to restore the disk. All recorded data will be erased from the disk.

 **Attention**

(1). Unlock SD card before formatting

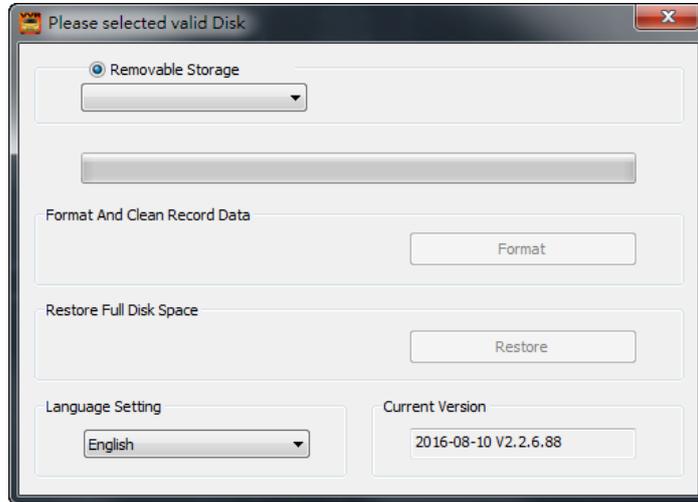


(2). Please use " RUN AS ADMINISTRATOR" to format SD card

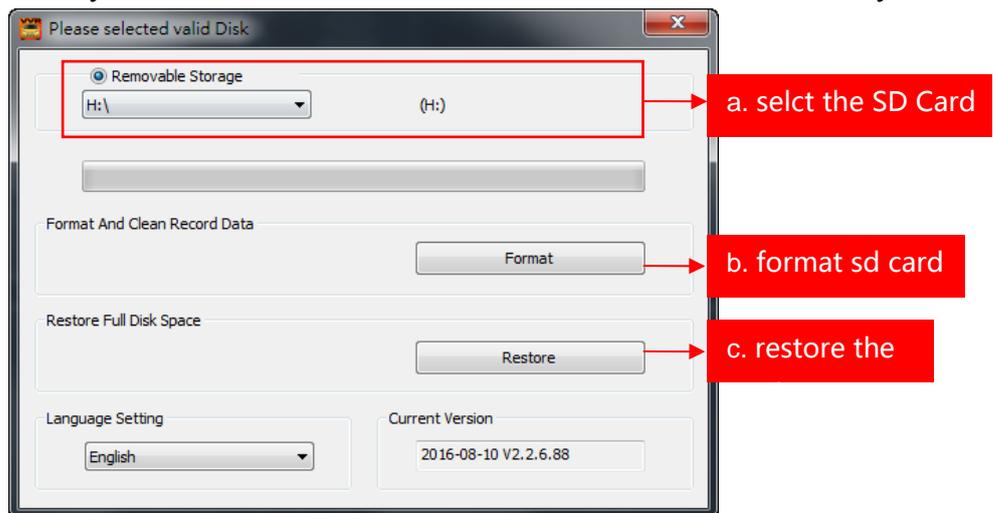


Q3. How to format/restore SD cards :

- (1). Put the SD card into card reader and play the card reader into your computer USB slot
- (2). Play software  · click  to enter formatting tool.



- (3). Select memory card location and choose format or restore memory card



- (4). After SD card be format or restored, it still can be use

P. WiFi Connection

(a) 、QR Code download :

VACRON MOTO FOR IOS



VACRON MOTO FOR ANDROID

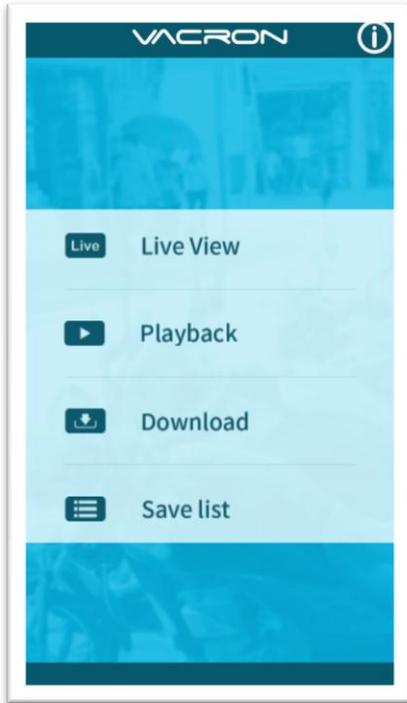


(b) 、Android:

1. Visit Google play store, search for " VACRON MOTO " and download
2. WLAN connection, type in 「 DIRECT-SSID-XXXXXX 」as user ID, password as 「 12345678 」.
3. Open "VACRON MOTO" , watch real time video record by selecting real time video
4. Select 「 Playback 」: Capable play all video files that storages in SD card.
5. Select 「 Download Video files 」, capable download video by date, time and channel for 1 minute.
6. Click "Save Record": Capable watch all records, Instant Record, Playback Record, and Downloaded Record.

7. Click " Video fragment ": watch the video fragment during play real time and playback video

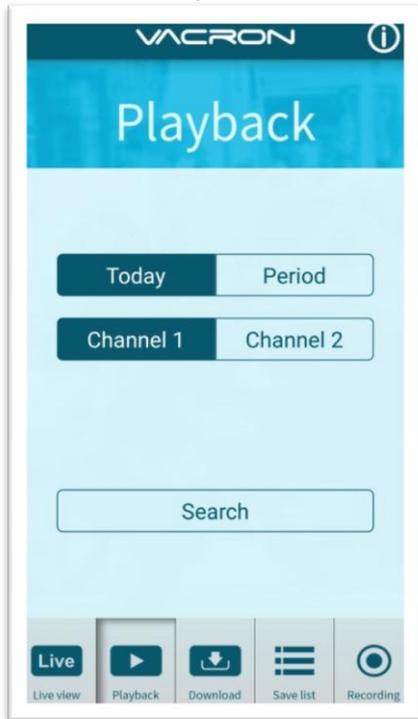
APP main menu



Real time image



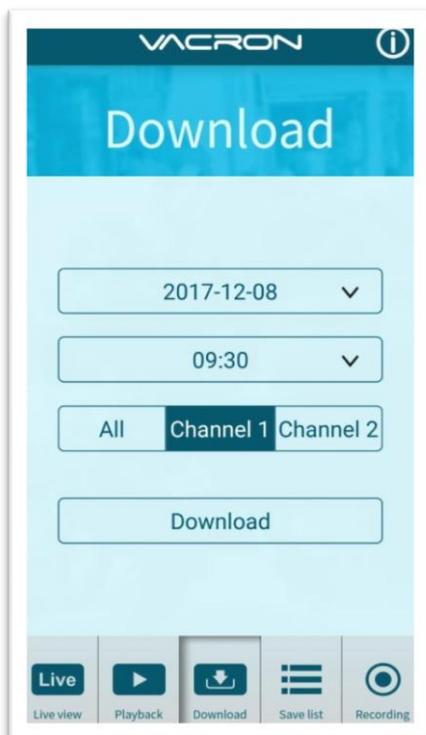
Playback



Playback:

1. Today: choose channel 1 or channel 2, and then press Search button, it will show all video files that record in today. Select and playback any video record as your request.
2. Custom : Choose channel1 or channel2, at meanwhile, setting date and time period, press search, it will show all video records that record during this range, select and playback any video record as your request.

File download



File Download

1. Select date, time point, and channel to download video file (choose suitable channel for different device, it cannot download file when you choose incorrect channel for your device.)
2. Press download to download video file, the complete download time length depends on file size. Normally, is takes approx.1 to 2 minutes, the download format as MP4.

Save list



Save list

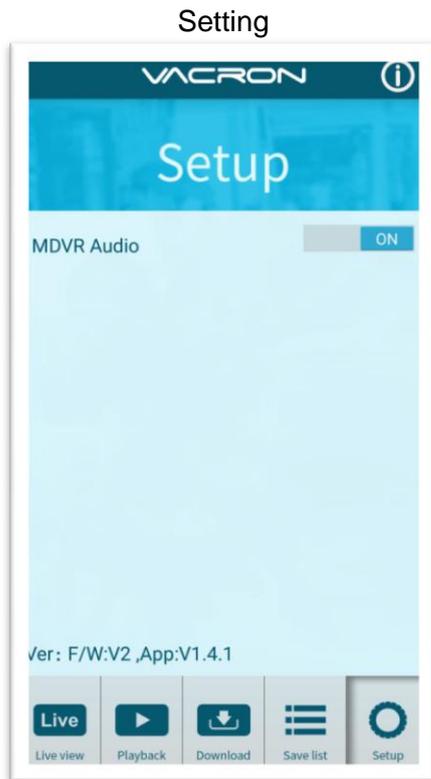
1. All records: press and playback all downloaded records, which include video clip of real time video, playback video, download image.
2. Real time: video fragment of real time video record, the file name ending with "L" .
3. Playback: video fragment of playback video record, file name ending with " PB" .
4. Download: file name ending with " D"

Video fragment



Video fragment:

1. Press "Video fragment" during play real time video, the system will save a video fragment as MP4 format.
2. Press "Video fragment" during playback video records, the system will save a video fragment as MP4 format.

**Setting:**

Select microphone On/Off.(Require use with OBD)

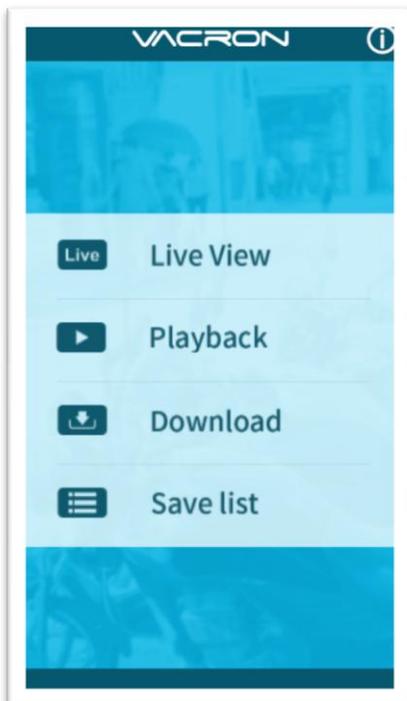
Version :

1. F/W: Display the device current version
2. App: Display APP current version

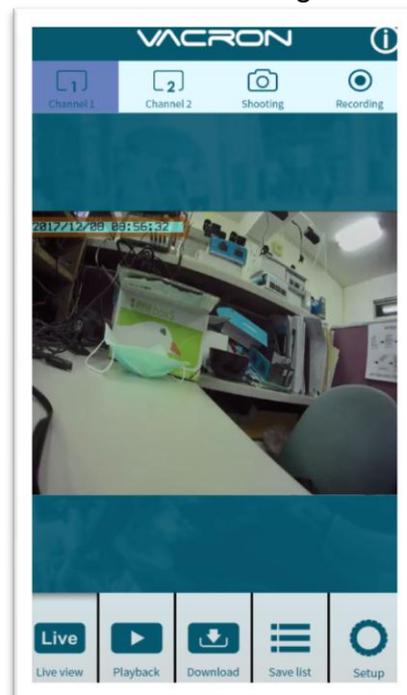
(c) · IOS

1. Search and download “VACRON MOTO” in Apple store.
2. WLAN connection, type in 「DIRECT-SSID-XXXXXX」 as user ID, password as 「12345678」.
3. Open “VACRON MOTO”, watch real time video record by selecting real time video
4. Select 「Playback」: Capable play all video files that storage in SD card.
5. Select 「Download Video files」, capable download video by date, time and channel for 1 minute.
6. Click "Save Record": Capable watch all records, Instant Record, Playback Record, and Downloaded Record.
7. Select 「Setting」: Capable turn On/Off microphone.
8. Select 「Snapshot」: Capable take snapshot.

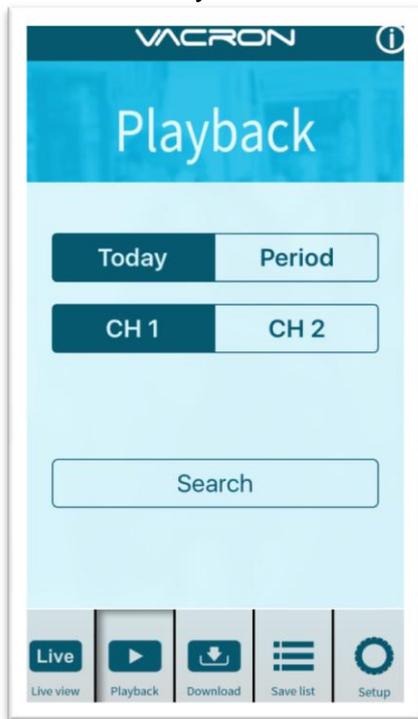
APP main menu



Real time image



Playback



Playback:

1. Today: choose channel 1 or channel 2, and then press Search button, it will show all video files that record in today. Select and playback any video record as your request.
2. Custom : Choose channel1 or channel2, at meanwhile, setting date and time period, press search, it will show all video record that record during this range, select and playback any video record as your request.

File download



File Download

1. Select date, time point, and channel to download video file (choose suitable channel for different device, it cannot download file when you choose incorrect channel for your device.)
2. Press download to download video file, the complete download time length depends on file size. Normally, it takes approx.1 to 2 minutes, the download format as MP4.

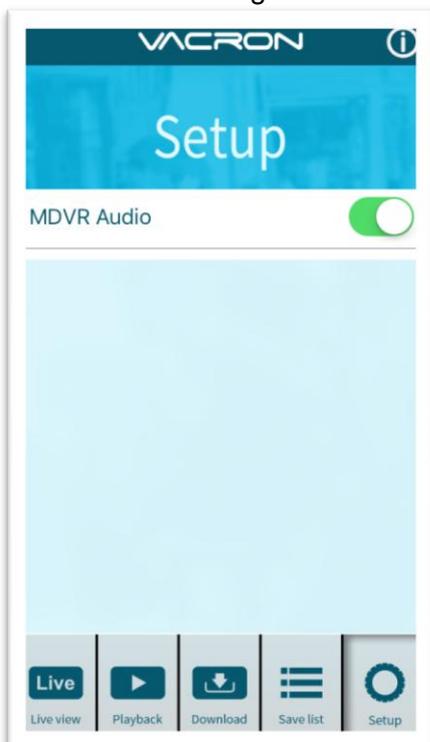
Save list



Save list

1. All records: press and playback all downloaded records, which include video clip of real time video, playback video, download image.
2. Real time: video fragment of real time video record, the file name ending with "L" .
3. Playback: video fragment of playback video record, file name ending with" PB" .
4. Download: file name ending with " D"

Setting



Setting:

Select microphone On/Off.(Require use with OBD)

**Attention**

1. Live image may be delay caused by wireless signal connection error.
2. Remote control only use for records that storage in device, record cannot be searched when the SD card had been overwritten.
3. Remember to close the WiFi connect with device after operation
4. It is recommended to check regularly with the use of the Laptop player to play the video. Make sure the video system maintain normal operations if OBD is not installed.

