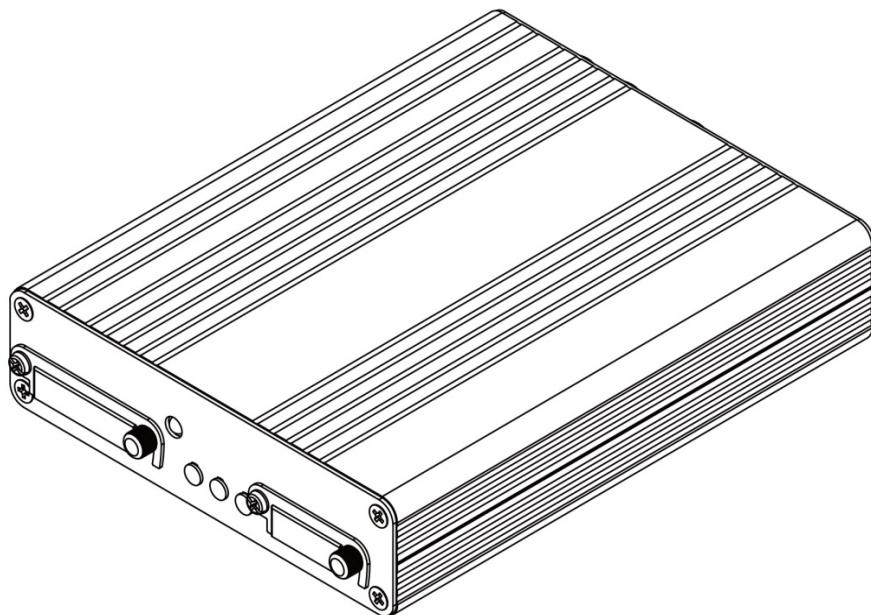


VACRON
ADVANCES IN SECURITY SOLUTIONS

VVH-MDE204

Vehicle Video Recorder

User Manual



2014 OCT. V2.0



Safety Precautions

To Whom 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 space.
- 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 contact local dealers or the manufacturer for prompt service.
- 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.

- Vehicle DVR system provides remote access to the users as well. Please use proper domain name for the system. No charge domain name could become off line from time to time.

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.

Notice :

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE:

To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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A. Packaging

1. Accessories

- 3Pin Power Cable x 1PCS
- Alarm Harness x 1PCS
- Mono Audio Microphone x 1PCS
- 3 Meter IR Cable Lead and Foam Tape x 1PCS
- Velcro x 1PCS
- Remote Control x 1PCS
- CD x 1PCS
- Quick User Guide x 1PCS

2. Review

Please review the package first. The packaging material can resist impact during delivery. Please remove the PE bag to make sure no damage on the housing. Finally make sure the screws are not loose.

■ Front Panel and Rear Panel

Keypad on the front panel and port on the rear panel are described in manual. Please make sure the model number on the label comes to the same as the model you purchase. Product labeling has significant meaning to after sale service. You will be asked to provide model number and serial number the time you contact our service team.

B. Feature

- Equipped with 4 cameras to record front/rear/left/right/inner of a car
- VIDEO OUTPUT to monitor to playback video at site.
- H.264 video compression codec
- Recording Resolution : D1 & CIF
- Graphic User Interface
- x1 audio / x3 Alarm Input / x1 Alarm Output
- Reliable event log good for quick search
- Time and date record display on screen
- System initialized after memory card loaded and power supplied.
- SD card recording against rugged condition
- Three axis G-Sensor
- GPS provides speed, coordinate and route
- Wi-Fi playback and live view video via smart phone

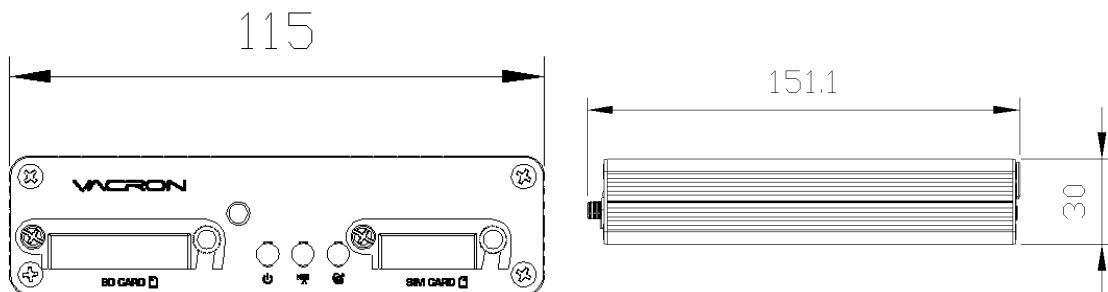
C. Specifications

Item	Description				
Type	4ch Vehicle System				
Video Format	NTSC/PAL				
OS	Embedded Linux				
Video Input	4 Cameras				
Camera Power Output	x4 Power12V / 250mA				
Video Output	x1 Video Output				
Audio Input	x1 Audio Input				
Audio Output	x1 Audio Output				
Alarm I/O	x3 Alarm Input / x1 Alarm Output				
Operation Interface	GUI				
Language	English/Traditional Chinese/Simplified Chinese				
Recording Frame	NTSC	Max. 120 fps @D1			
	PAL	Max. 100 fps @D1			
	NTSC	Max. 120 fps @CIF			
	PAL	Max. 100 fps @CIF			
Display Mode	Full Screen / Quad				
Operation Mode	Recording / Playback				
Resolution	Live	NTSC	720 x 480		
		PAL	720 x 576		
	Record	NTSC	360x240@CIF/ 720x480@D1/		
		PAL	360x288@CIF 720x576@D1/		

Search	Mode	Time/Date Event Record
	Full Screen	Yes
Indicator	3 LED (REC、GPS、Power)	
Video Loss Alert	Yes	
Buzzard	Yes	
G-SENSOR	Three Axis G-Sensor	
GPS	Option – Speed / Coordinate/ Route	
Wi-Fi	Option – live view via Smart Phone	
Remote Control	Cable Lead Provided	
Watch Dog	Auto Reboot after Power Cut	
Power Input	(1) DC 8V~32V (2)ACC Bonus Power Subject to Software	
Dimensions	151mmX115mmX30mm(LWXH)	
Operation Temperature	-20°C~65°C	

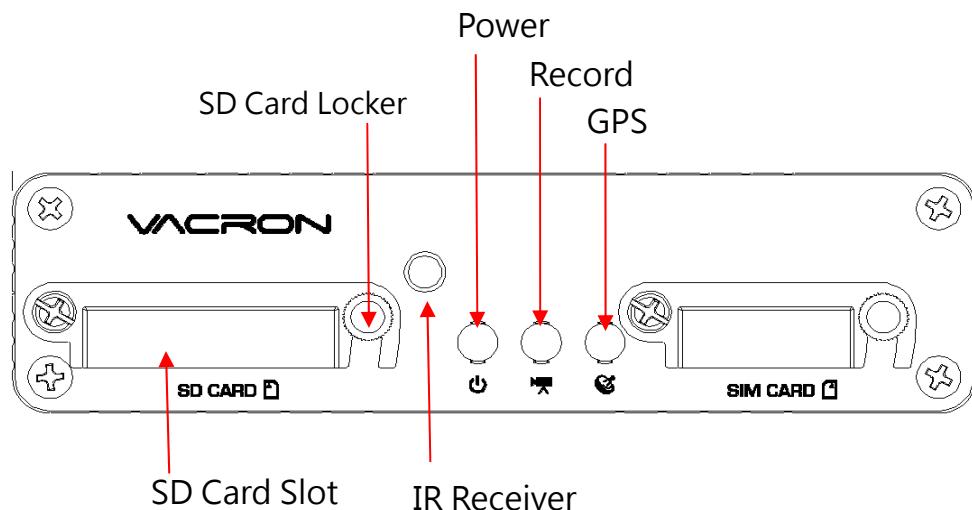
D. Dimensions

Unit : mm

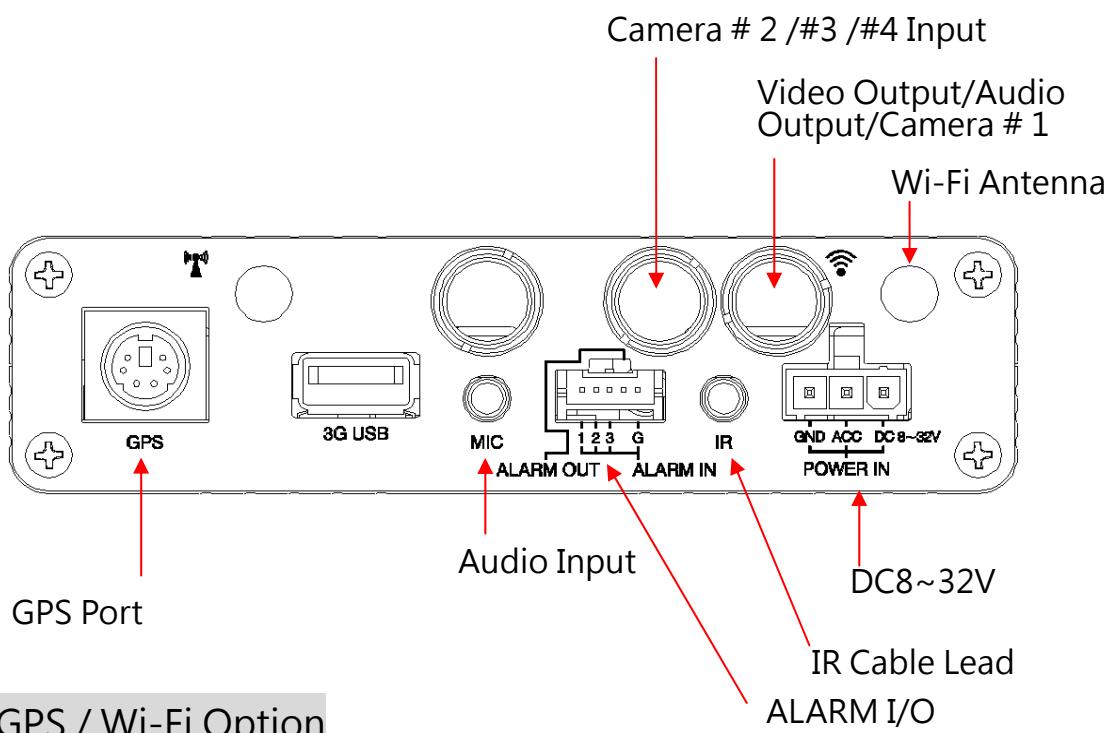


E. Front / Rear Panel

1. Front Panel



2. Rear Panel



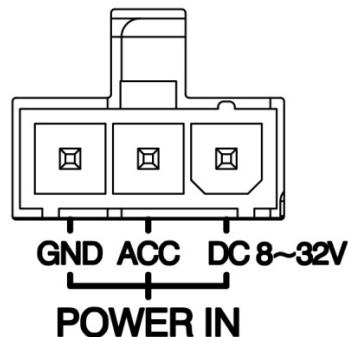
3. Installation Guide

■ Video Output / Audio Output / Video Input

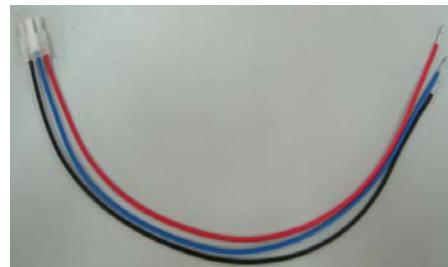


- V. Video Output
- A. Audio Output
- 1. Video Input
- 2. Video Input
- 3. Video Input
- 4. Video Input

■ Power I/O



3Pin Power Cable

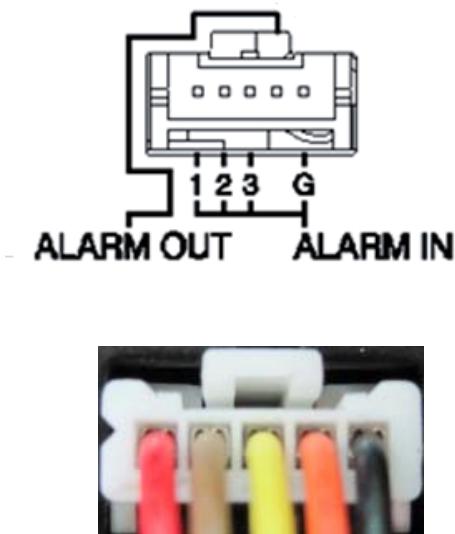


3Pin Power Cable Definition :

1. Red - DC8~28V Vehicle Power Input - Positive
2. Blue - ACC Control
3. GND –Ground Wire - Negative

★ **Sending +12~28Vin condition of alarm setting**

■ Alarm I/O



1. Alarm IN #1 (Red+12V)
2. Alarm IN #2 (Brown+12V)
3. Alarm IN #3 (Yellow+12V)
4. Alarm OUT (Orange+12V)
- G. Ground Wire (Black)

■ Alarm IN Application

Monitor can switch to full screen of rear view or side view. Driver can view blind spot by means of this application.

- CH 1 → Reversing Signal Input
- Ground → Connected with the #2 & #3 black wire of the power cable.

Quad while no alarm



No alarm

Full Screen while alarm input

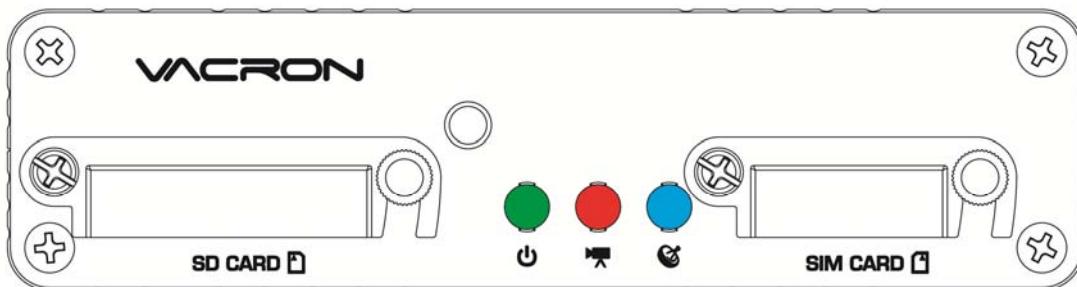


Alarm trigger

■ Alarm OUT Application

12V, Max1.5A output connected with beeper or siren

F. Record / Stop



1. Reboot/Record

System gets ready 40 seconds after reboot. It starts recording upon blink on the SD card indicator.

Indicators

- Green – light on power on, light out power off
- Red – SD card recording it blinks, not recording light off.
- Blue – GPS standby it blinks

2. Power Off/Stop Recording

Stop recording upon power off. We can retrieve the files recorded in the SD card at this moment.

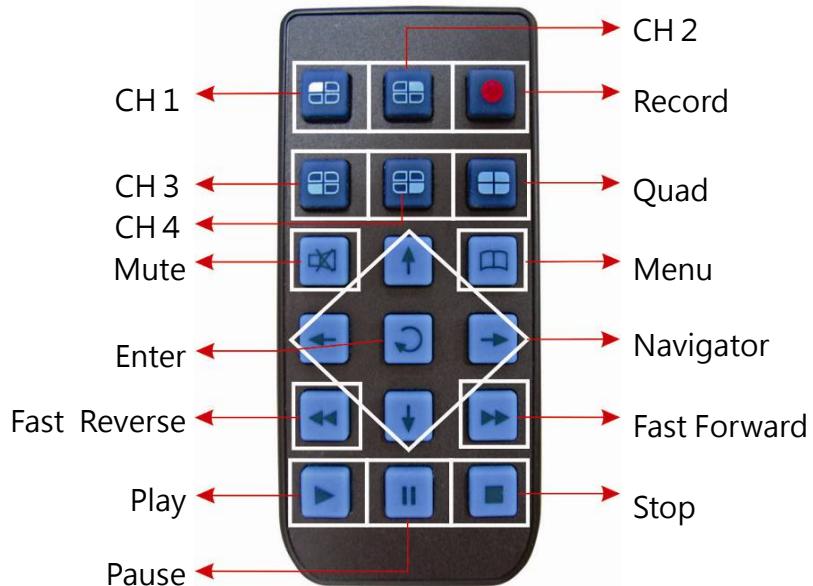
Caution

- (1). Prior to recording, data in SD card will be deleted if SD card not format by player.
- (2). SD card has its limit on the written times. Better review the recorded files on PC periodically.

G. Remote Control

Remote control playback and PC site playback are available.

◆ Remote Control



Description		
	Navigator	Up/Down/Left/Right in Menu Mode
	Menu	Enter Menu or Return
	Enter	Enter Menu or Save Setting
	CH1~CH4	CH1 to CH4 Selection in Live or Playback Mode
	Quad	Quad Display in Live Mode
	Record	Manual Recording in Live Mode
	Mute	Audio Not Recorded in Live Mode
	Play	Playback Files in Live Mode
	Stop	Stop Playback and return in Playback Mode

	Pause	Pause in Playback Mode
	Fast Forward	Fast Forward in Playback Mode
	Fast Reverse	Fast Reverse in Playback Mode

■ Remote Control Precautions

Trouble Shooting 	<ul style="list-style-type: none">▼ Positive and Negative▼ Out of Electricity▼ IR Receiver Clear▼ CCFL Clear
--	---

H. GUI & Operation

■ Live View -Quad



■ Live View –Full Screen



◆ Instruction

- Press 1 to 4 for display CH1 to CH4
- Press quad for quad display
- Press Menu to enter menu
- Press Play for playback mode

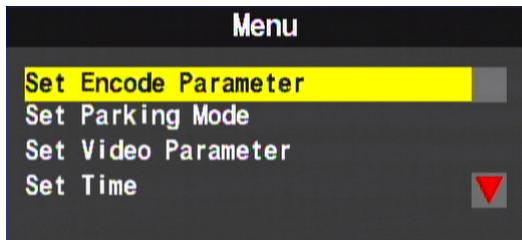
◆ Graphic Illustration

- Recording
- GPS on Work
- Audio Recording

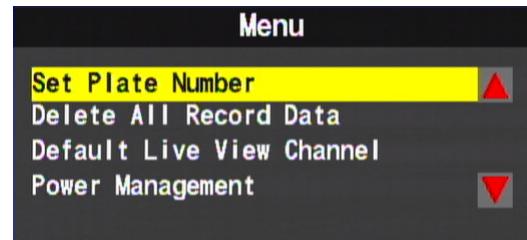
-  Manual Recording
-  G-Sensor Trigger
-  WIFI Connection Online
-  0 km/h: Speed of the Vehicle

I. OSD Menu

(1) Menu



Menu 1 of 4



Menu 2 of 4



Menu 3 of 4



4 of 4

Menu

Instruction

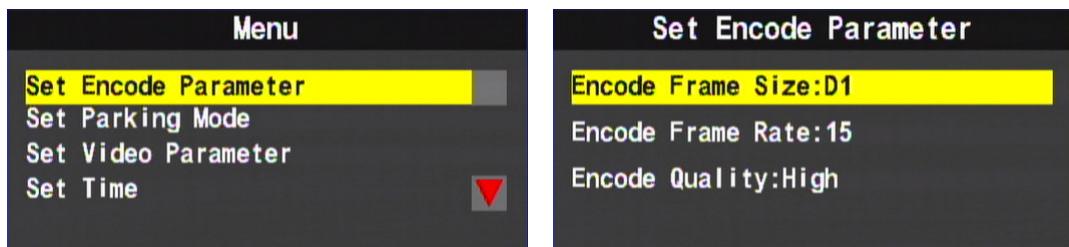
- Press Menu in live mode to enter menu
- Enter menu and press navigator to locate the option. Press enter to enter option.
- Press Menu to exit

※ Language Setting is only for non WIFI device.

※ Wi-Fi Option

(2) Menu and Configuration

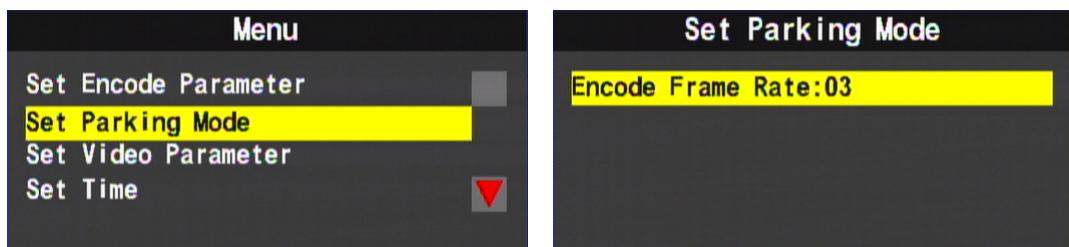
1. Set Encode Parameter



◆ Recording Configuration

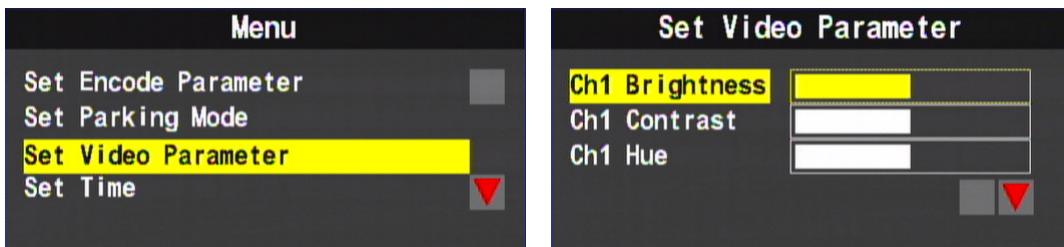
Frame Rate	NTSC	D1	5fps-30fps
		CIF	5fps-30fps
	PAL	D1	5fps-25fps
		CIF	5fps-25fps
Quality	Normal	Better	Best

2. Set Parking Mode



- ◆ Recording frame rate setting for parking mode. Must come with power management setting.
- ◆ Frame rate not bigger than Record Setup
- ◆ Frame rate - 5, 10, 15, 20, 25, 30 Max. 15 @D1 · Max. 30 @CIF

(3) Set Video Parameter



- ◆ Channel – press on the remote control
- ◆ Brightness/Contrast/Hue – press on the remote control

Press enter to save the configuration.

(4) Set Time



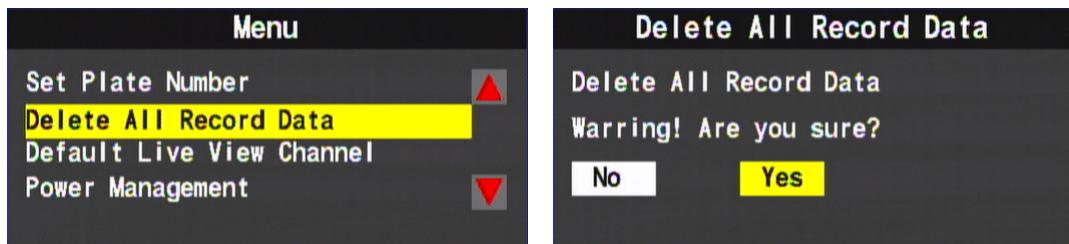
- ◆ "yy/mm/dd/mm/ss/Time Zone"
- ◆ Auto Time Calibration by GPS

(5) Set Plate Number



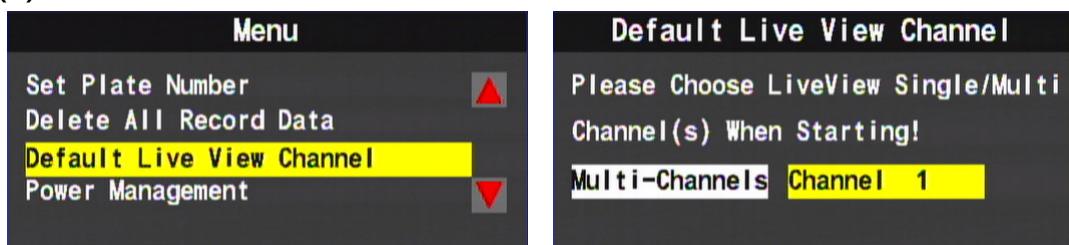
- ◆ Range of Input - A~Z & 0~9 .

(6) Delete All Record Data



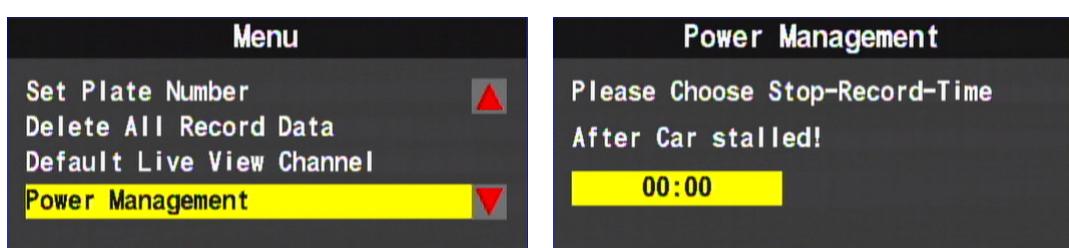
※ All the files will be deleted.

(7) Default Live View Channel



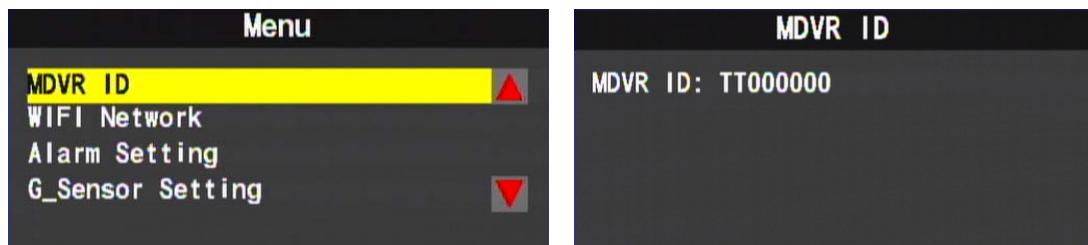
- ◆ Multi-Channels – 4 split or quad display in live mode
- ◆ Channel 1 – Full screen of channel #1 in live mode

(8) Power Management



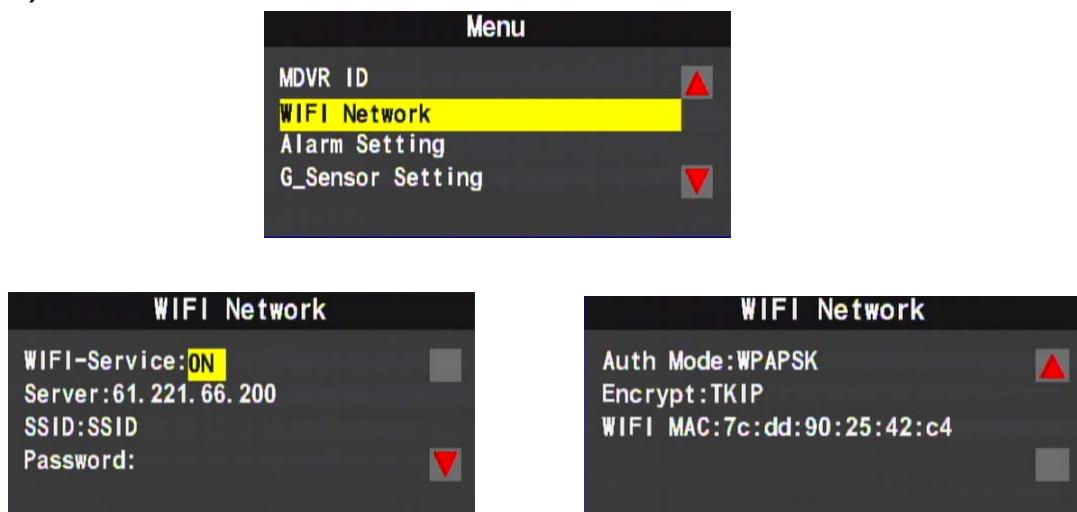
- ◆ Recording time is to be scheduled after ignition off.
- ◆ Record Schedule – 30 minutes an Interval Started from 00:00、00:30、01:00... up to 24:00.

(9) MDVR ID



- ◆ MDVR ID –the sole serial number of this device also the device of on 3G client software.

(10) WiFi Network



- ◆ Can turn on and off WiFi network by left/right buttons on remote control.
- ◆ Press enter to save the configuration.
- ◆ Please review WiFi network configuration for details.

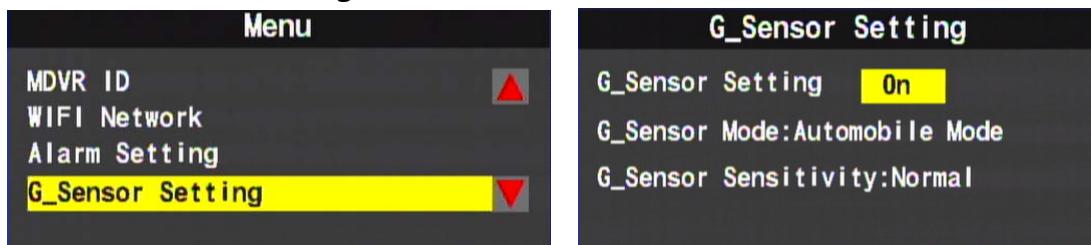
(11) Alarm Setting



- ◆ Alarm Option-Off /CH1 to CH8/Server

- ◆ The selected channel will come up with full screen upon trigger
- ◆ Server option selected the event will be saved in 3G client log.

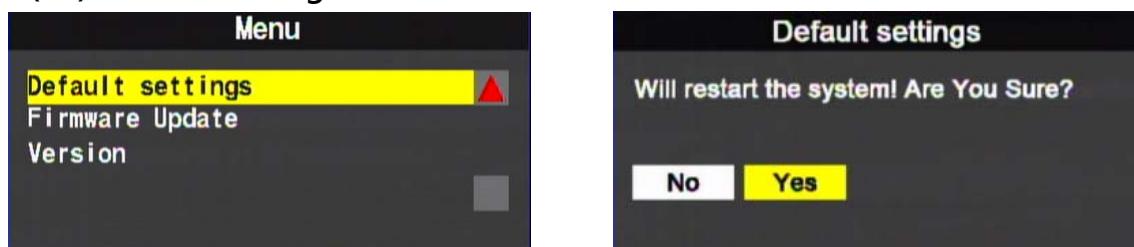
(12) G_Sensor Setting



- ◆ G_Sensor Option- : On/Off
- ◆ G_Sensor Mode-Automobile Mode & Truck Mode
- ◆ G_Sensor Sensitivity-Lowest/Low/Normal/High/Highest

★Video file of the impact moment will be saved not overwritten in condition of G-Sensor trigger.

(13) Default Settings



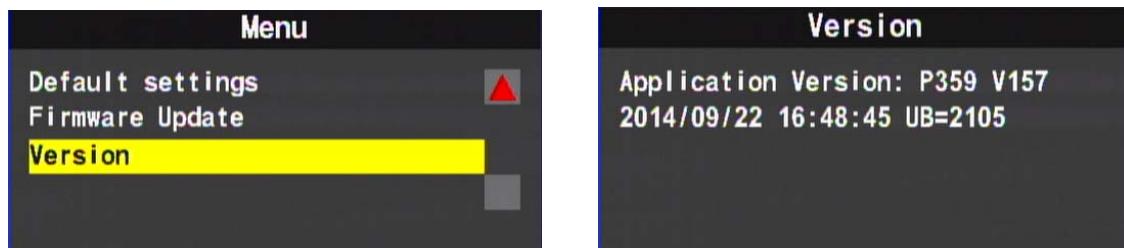
- ◆ System will reboot after default setting.

(14) Firmware Update



- ◆ Use SD card to upgrade firmware.
- ◆ DO NOT cut the power off while upgrade. System will reboot when upgrade done.

(15) Version



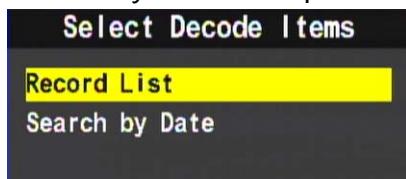
- ◆ Check up the latest version.

J. Playback Setup

At site playback and PC playback are available.

◆ At site playback

- (1) Press Play in live mode to enter playback mode.
- (2) Press Play to enter option



- (3) Select the option and press enter to enter file list.

Select Decode Items	
Start Record Time	End Record Time
2013/10/01 09:00:42	2013/10/01 09:01:35
2013/10/01 09:01:38	2013/10/01 09:01:52
2013/10/01 09:02:19	2013/10/01 09:07:41
2013/10/01 10:37:36	2013/10/01 10:38:43
2013/10/01 10:38:48	2013/10/01 10:41:17
2013/10/01 10:41:32	2013/10/01 10:41:37
Page 00001	Total Pages 00002

- Manual Recording

- G-Sensor Recording

- (4) Select a file and press Enter to start playback.

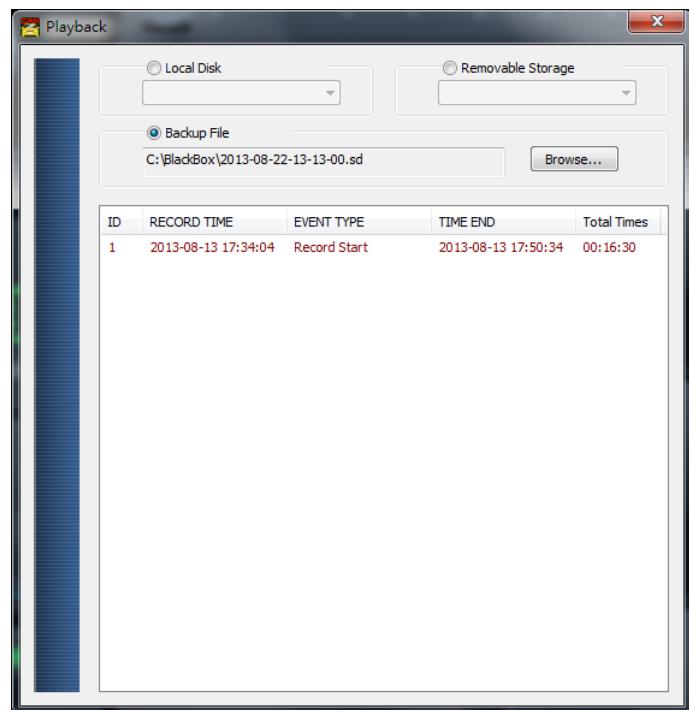
◆ PC Playback

- (1) Read the hard drive, SD card or CF card on PC and execute the

software CarBox2.exe .

- (2) Click Playback icon to enter playback mode.

- (3) Select the storage device file list comes up. Click the file to start playback.



File List

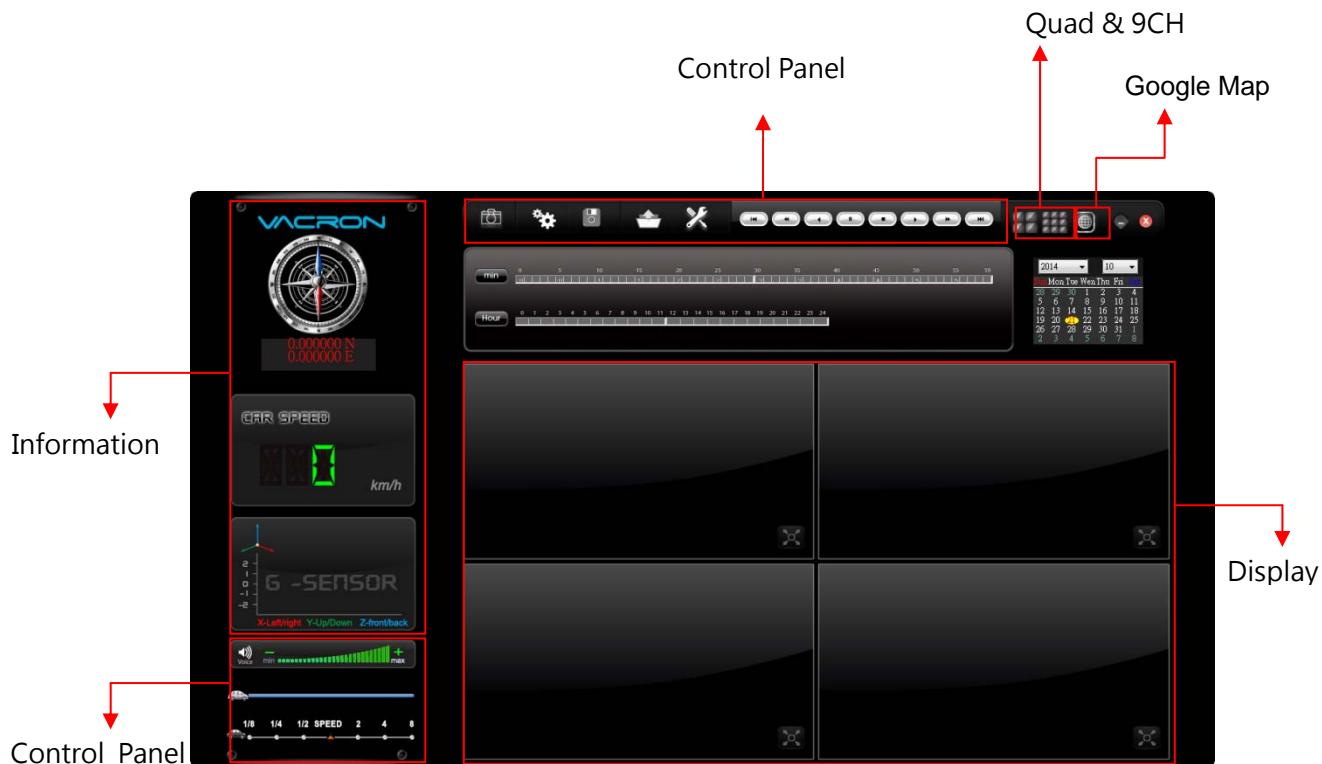
Reminder – Right click the mouse on the CarBox icon and select “Open as administrator” to run the software on Windows 7 OS.

K. PC Player

- ◆ Execute player CarBox2.exe  layout as below

★ DirectX 9.0 is Required

- ◆ Interface



★GPS / Speed / Google Map optional

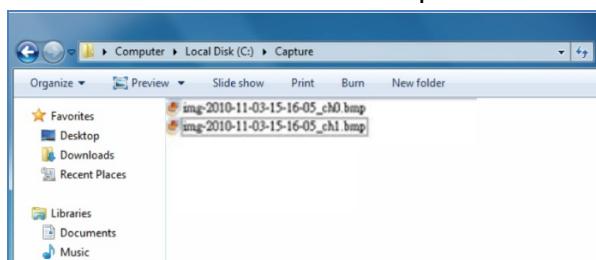
(1). Playback Tool



1		Previous File
2		Previous Frame
3		Reverse
4		Pause
5		Stop
6		Play
7		Next Frame
8		Next File
9		Backup File
10		Configuration
11		Google Map
12		Open File
13		Snapshot
14		Tool

◆ Snapshot

Click the icon image will be saved as .bmp file. Image will be saved in the file named as " Snapshot" .

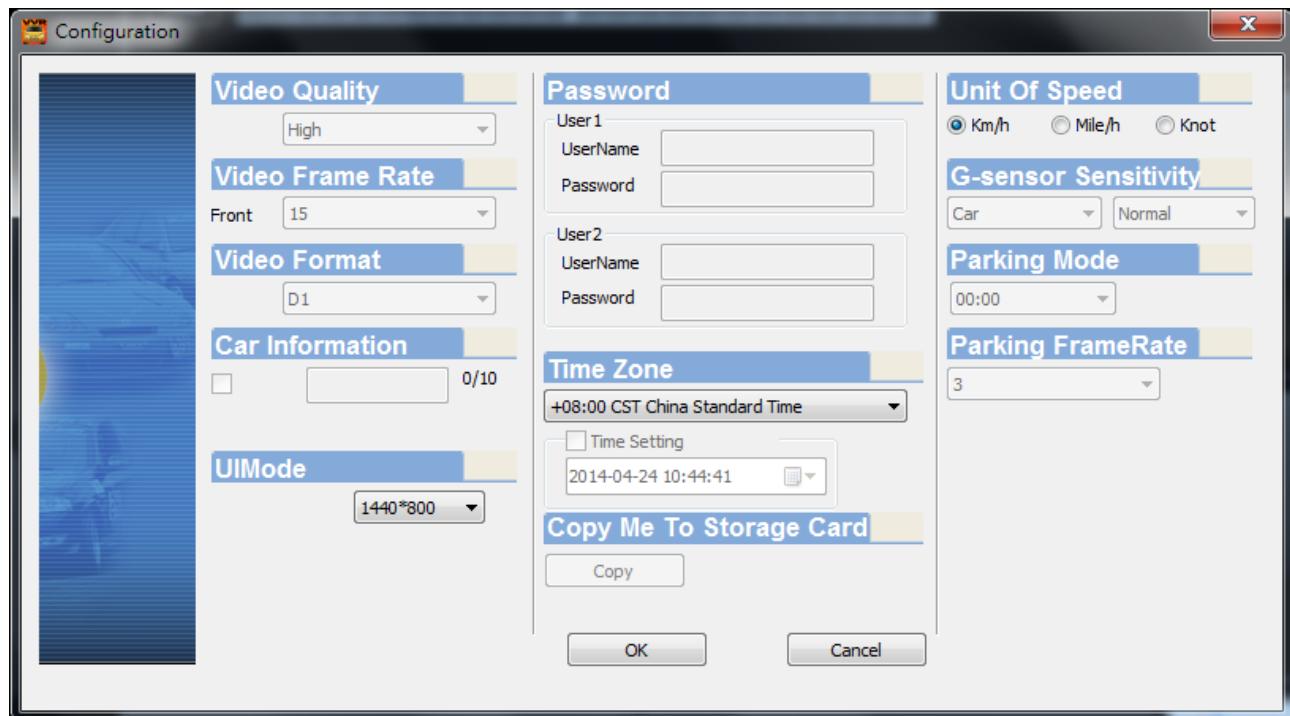


◆ Arrangement

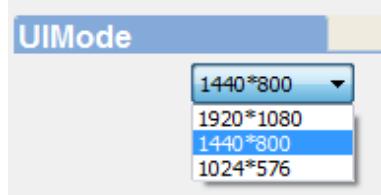
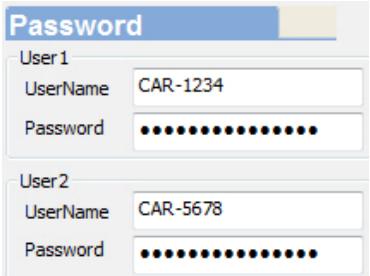
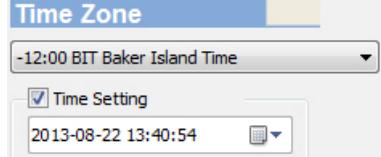
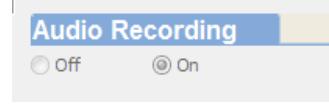


Storage Device

Use PC to read storage device before recording. Recording format and other settings can be done accordingly. Save the configuration and get the storage device in the DVR. The recording will follow the rules in the configuration.



Quality	<p>Video Quality</p>	Picture Quality – high/normal/low
Frame Rate	<p>Video Frame Rate</p>	Frame per Second D1 – 5fps to 30fps CIF – 5fps to 30fps
Resolution	<p>Video Format</p>	Resolution D1 & CIF

Information		License Plate Number or Name of the Driver
UI Mode		Size of the player adjustable 1920*1080 / 1440*800 / 1024*576
Password		Password is to protect the storage device being read, written and formatted. Password up to 15 characters. ★ Password must be kept properly.
Time Zone		GMT
Copy Me to Storage		Copy player software to storage. User can playback the files anytime anywhere.
Unit of Speed		Setup the unit of speed Km/h Mile/h Knot
G-sensor Sensitivity		G-sensor Mode and Sensitivity
Audio Recording		Audio recording ON/OFF

Power Management	Parking Mode <input type="text" value="00:00"/>	Recording time after ignition off.
Parking Mode	Parking FrameRate <input type="text" value="3"/>	Recording frame rate after ignition off.

◆ **Backup**

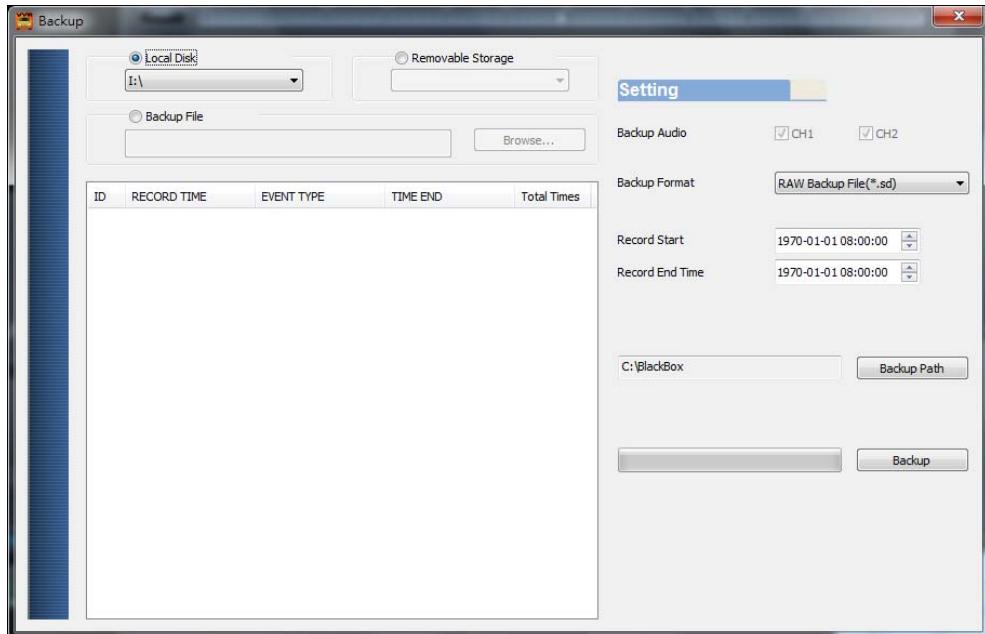


Start Backup

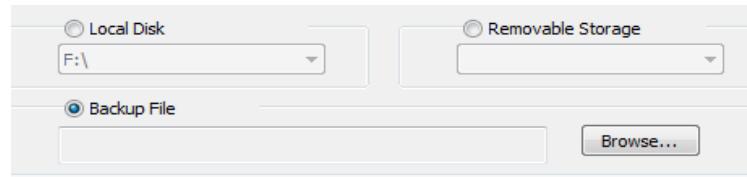
Save the video files on PC for prompt playback.



Click the icon to enter backup interface.



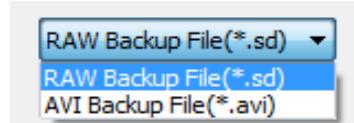
1. Select a storage device.



2. Select a file

ID	RECORD TIME	EVENT TYPE	TIME END	Total Times
1	2013-08-13 17:34:04	Record Start	2013-08-13 18:26:27	00:52:23
2	2013-08-13 18:26:27	G Sensor By Not Ov...	2013-08-13 18:26:46	00:00:19

3. Select a file format



Backup Format

● SD Format / AVI Format

 2013-06-06-09-49-33.sd SD File 104 MB	Save as *.sd
 2013-06-06-09-50-56-CHN01 00:00:30 55.2 MB	Save as .avi

Save as *.sd speed, GPS and G-Sensor will be included.

Save as *.avi only video and audio available.

4. Start time and end of the time can be selected.

Record Start	2013-08-13 17:34:04
Record End Time	2013-08-13 17:50:27

5. Browse the file folder

C:\BlackBox	Backup Path
-------------	-------------

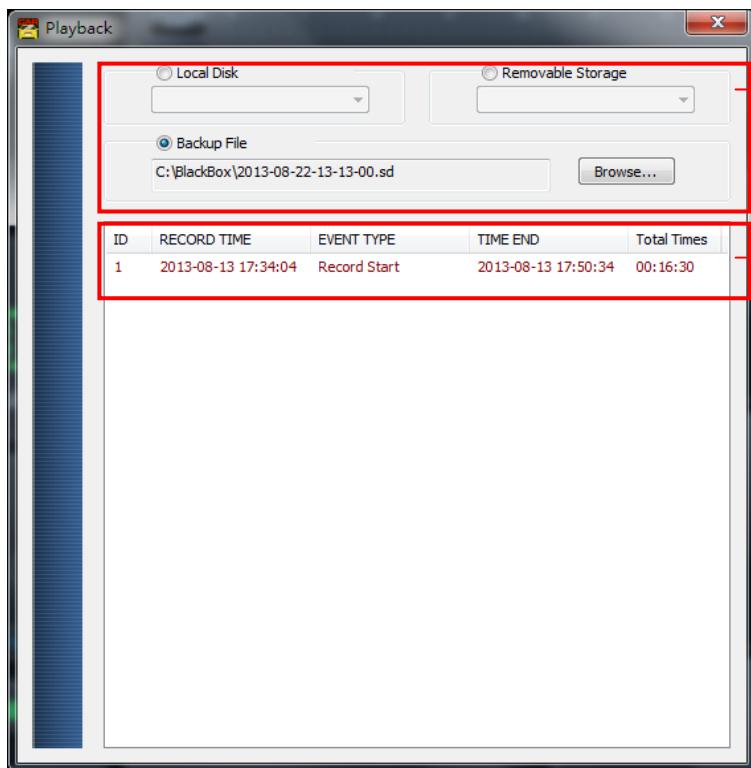
6. Start Backup

	Backup
---	--------

◆ Playback



Playback video from the storage device or backup files.

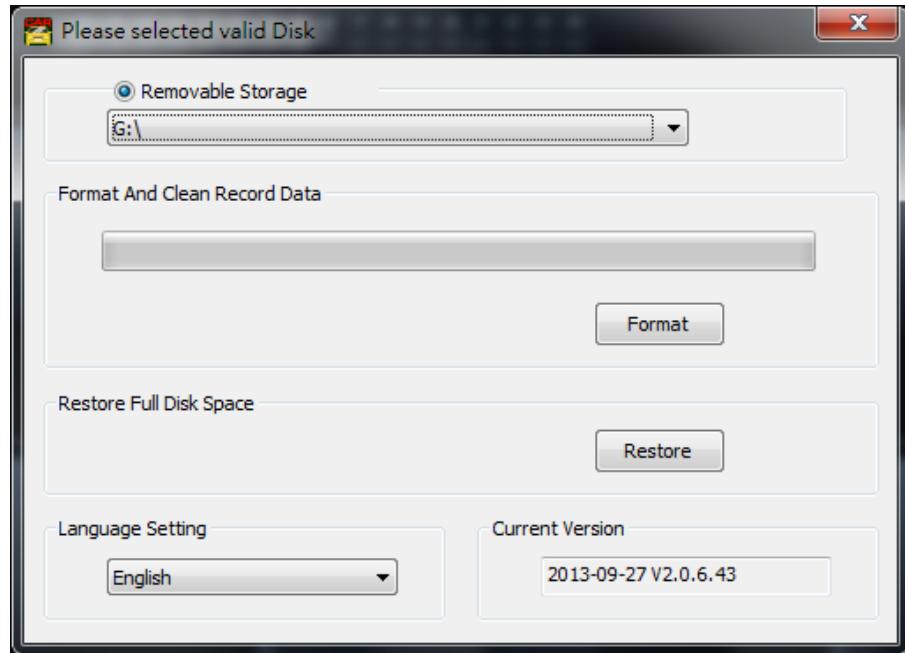


1. Choose the Local Disk, Removable Storage or Backup File
2. Choose the file

◆ Format



Please read FORMAT/RECOVERY for details.



(2). GPS Coordinate



Must be equipped with G-Mouse to present coordinate.

(3). G-SENSOR



G-SENSOR - G-Sensor trigger X、Y、Z axis will change.

X – left and right of the vehicle change

Y – front and rear of the vehicle change

Z – high and low of the vehicle change

(4). Speed Meter



(5). Volume



Audio Volume-click + and - to change volume

(6). Slide Bar



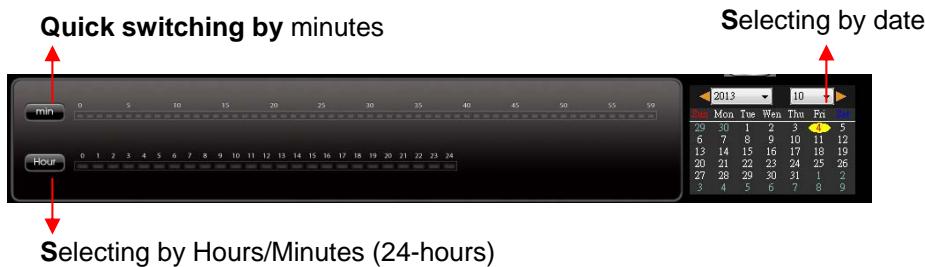
Left click on the mouse and move the car to the proper time.

(7). Playback Speed



Speed x2 to x8 and x1/2 to x1/8

(8). Playback date selection



L. Format / Recovery

◆ Delete All Record Data

Why format storage device?

All the storage devices must be formatted beforehand.

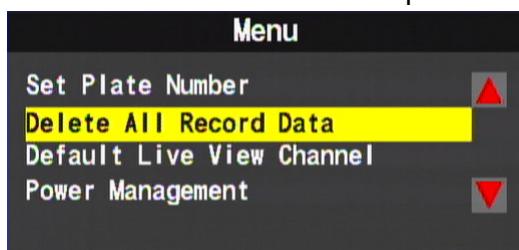
※ Files should be saved to PC prior to format.

Format in DVR and format on PC are available.

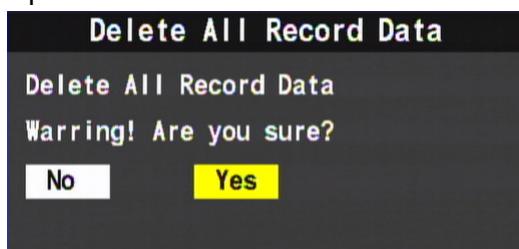
(1) Format in DVR

Follow the steps as below.

1. Use remote control enter Menu select the option Delete All Record Data



2. Select "yes" to proceed with Delete All Record Data.



3. Live mode comes up Delete All Record Data done.

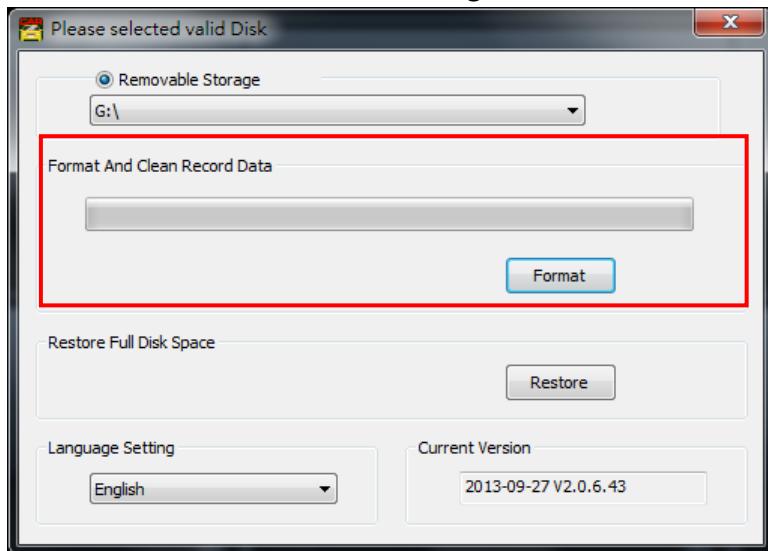


(2) Format on PC

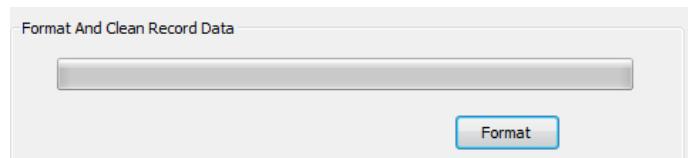
Follow the steps as below.

1. Put the storage device in PC and execute the software CarBox2.exe .

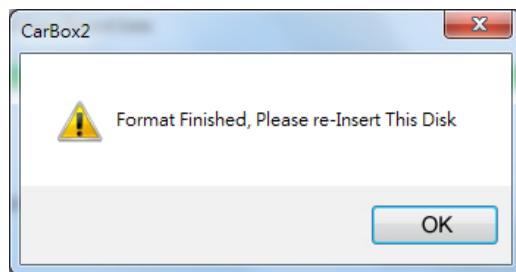
2. Click the icon  to enter Format Tool Dialog



4. Click Format



5. Select Yes



Get the storage device in PC for configuration. Configuration done the storage device can get in the DVR for recording.

◆ Restore the Storage Device

Why restore the storage device?

The storage device has no plan to work with the DVR. We restore the storage device.

※ Files should be saved to PC prior to Restore.

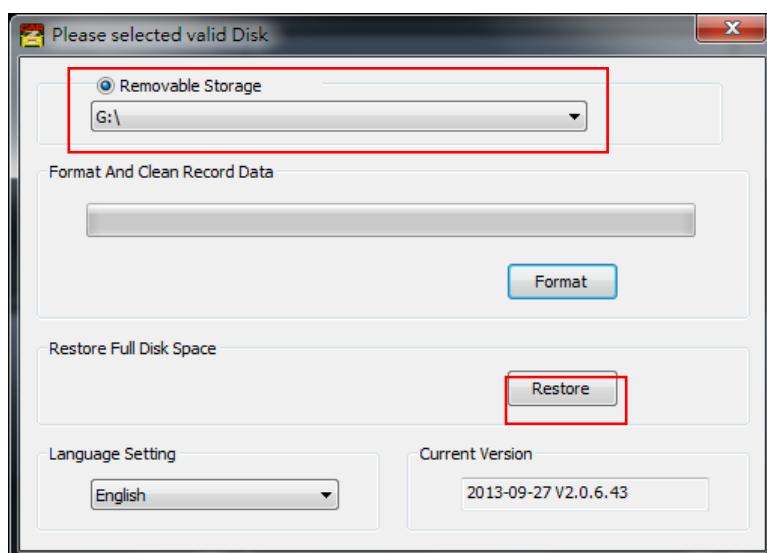
(1) Restore in DVR

Follow the steps as below.

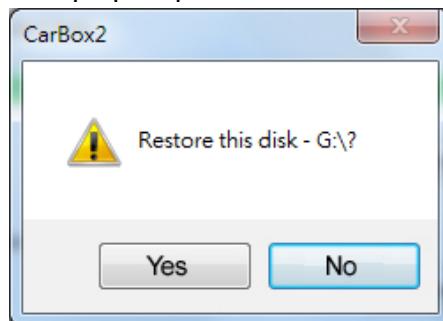
1. Put the storage device in PC and execute the software CarBox2.exe



2. Open Format Tool Dialog. Select a storage device and click Restore.

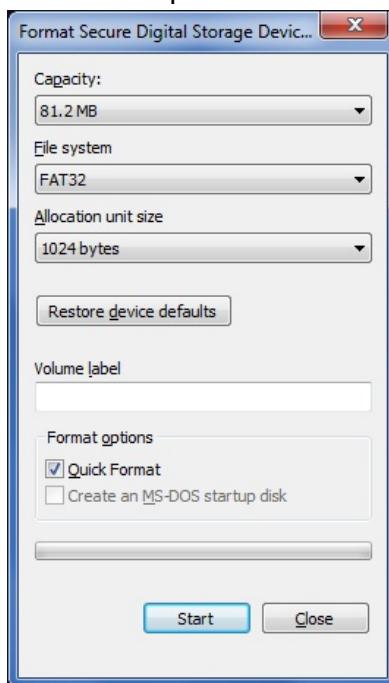


3. Restore this disk pops up. Click Yes to restore.

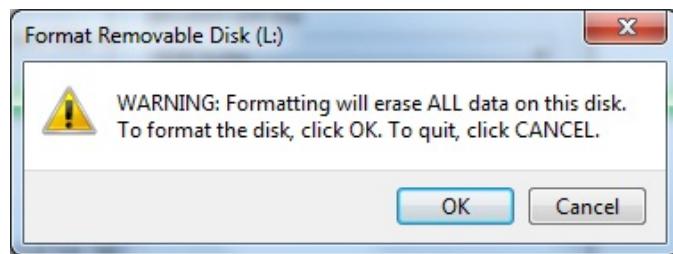


4. Restore Disk Completed, Please re-Insert This Disk pops up. Click OK.

5. Follow Windows format procedure to have restore done.



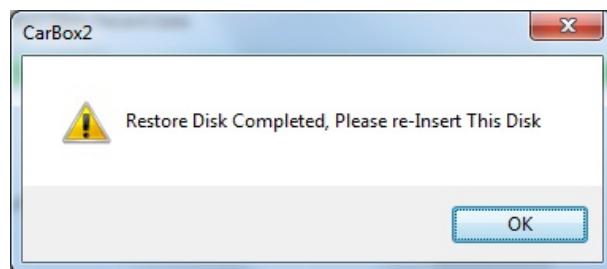
6. Click 「Yes」 to start formatting the Storage.



7. Click "OK" to finish restore HDD device.

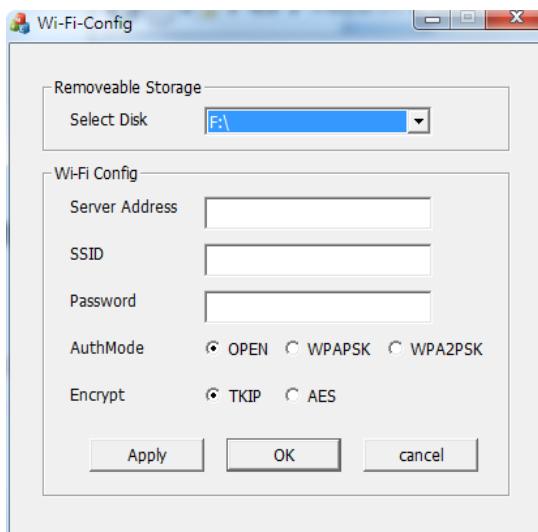


8. After finished, press "OK". Then the Storage format is normal windows format.



M. WiFi Network Configuration

1. Open the file  **Wi-Fi-Config.exe** to enter the Wi-Fi Config Tool



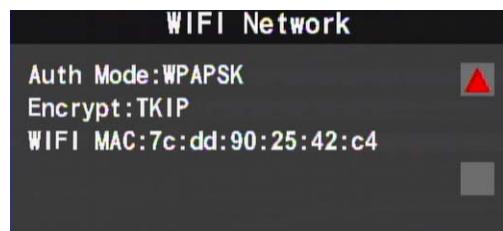
2. Upload the parameters to SD card via PC.

Parameters	
Select Disk	Location of the flash memory
Server Address	IP Address of the server
SSID	According to router setting
Password	According to router setting
AuthMode	According to router setting
Encrypt	According to router setting

3. Click OK to save the configuration

Click location of the SD card to verify the file wifi_cfg.txt

4. Get the SD card connected with the SD card slot of the DVR. Reboot the DVR. If the configuration uploaded system will reboot again in 10 seconds.
5. Please get into WIFI Network to verify the setting



You can see WIFI module information if configuration loaded

N. Remote Access

1. 3G Client Remote Access

(1) Login

Executive the software 3GClientApp.exe and login



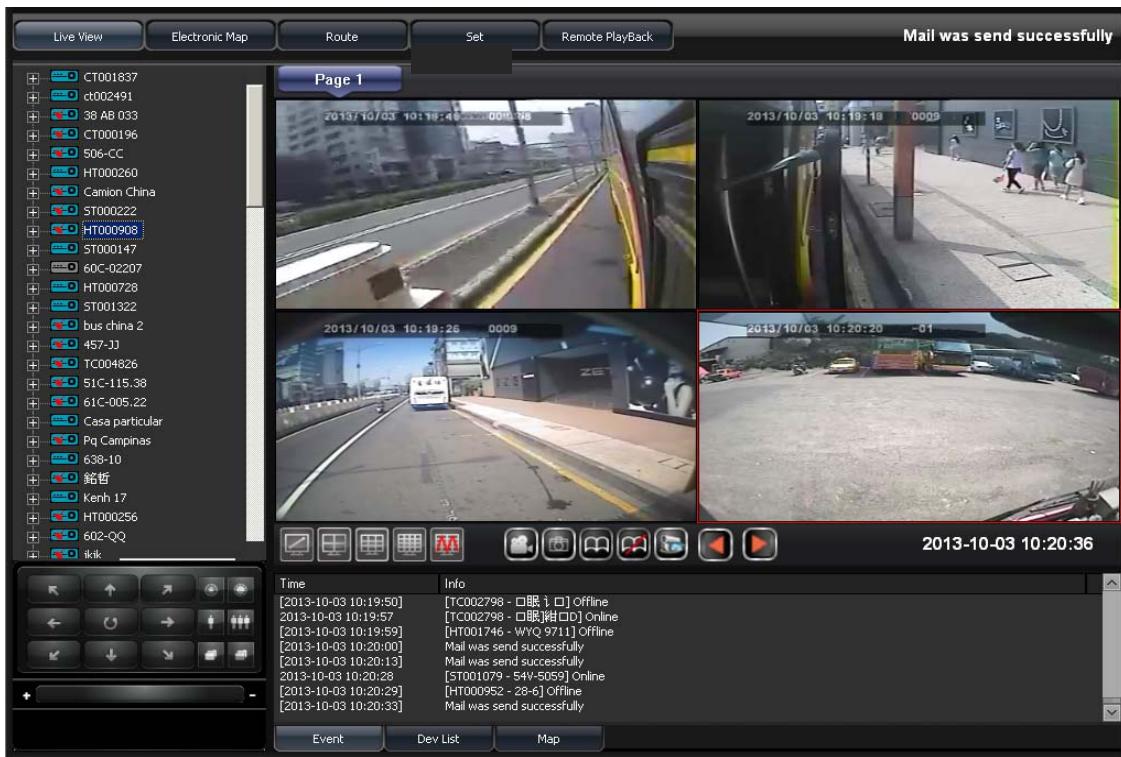
Input UserName and Password and click login

DirectX 9.0 is required



UserName	User Name
Password	Password of the User
CenterServer Address	IP Address of Server Default - 61.221.66.200
CenterServer TcpPort	Server TCP Port Default - 24680
CenterServer UdpPort	Server UDP Port Default - 24681

(2) Live View Interface



- Equipments list display all the connecting equipments. Be able to play real-time image form all channels. Lift click mouse to open equipment channel than click on chennel to view the real-time image.
- Device List



- Live View



- Split screen display mode button



	Single display		Quad display
	9 divisions display		16 divisions display
	Multi-divisions display, 25/36/49/64		

Live View-Single Channel



Live View- Quad Channels Display



■ Live View Function buttons

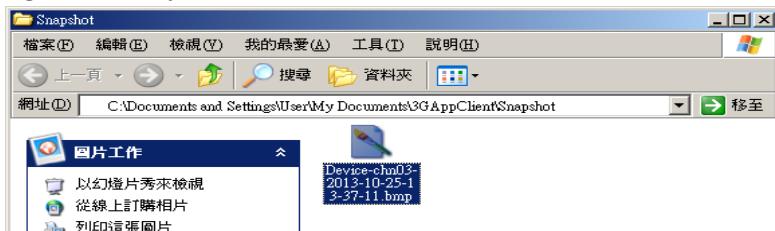


	Recording	Signle snapshot as AVI file
	Snapshot	Snapshot
	Auto-flip	Auto flip to next page
	Stop auto-flip	Stop auto-flip to next page
	Monitoring Status	Save the current live viewing channels to be able to retrieve it next time
	Go to previous page	Manually go to previous page
	Go to next page	Manually go to next page

1. Recording: To record the selected channel, the red recording signal will show up at the bottom of the screen.



2.  Snapshot: To take the snapshot of the selected channel, it will automatically go to the saving directory.



3.  Start Auto-flip: Once auto-flip is triggered, it will go to next page in a period of time.

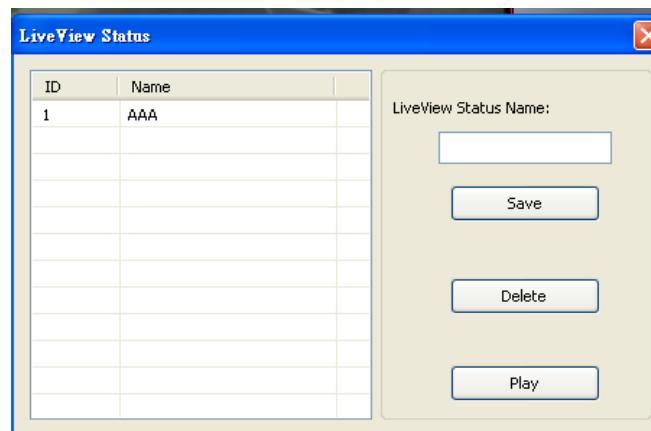
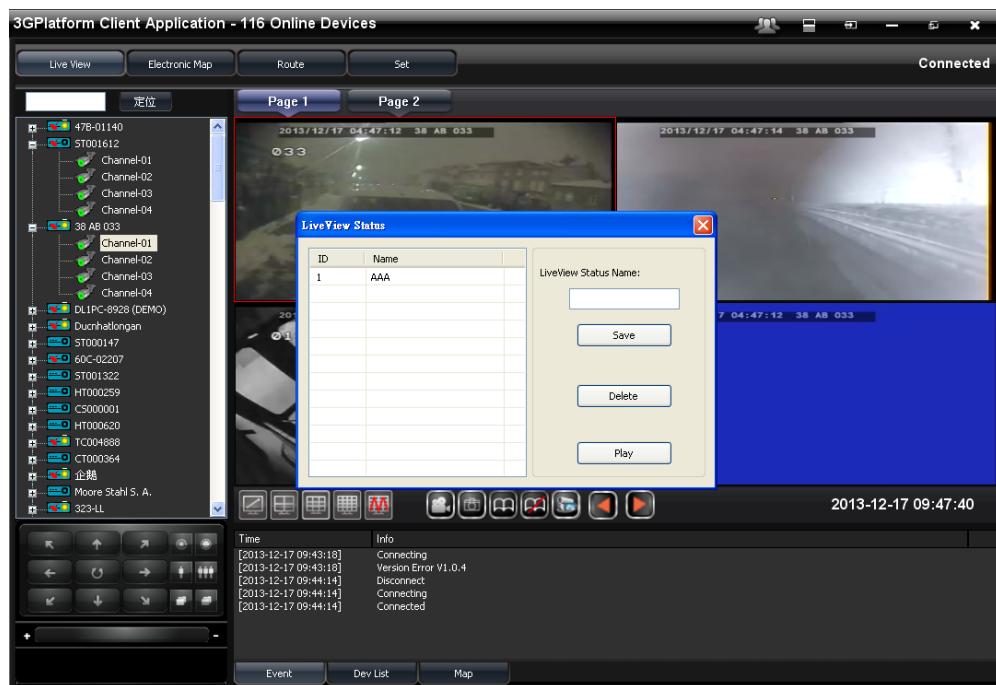
4.  Stop Auto-flip: Auto-flip function will stop.

Auto-flip time setting, please go to Setting->Page 1->Auto flip period

Page-Once the time is up, it will automatically go to next page



5.  Monitoring Status: To save the current live channels, input the status name then save it; next time when you log into 3G client software, you could click the saved status name to watch.



6. Manually select page: Manually select the previous or next page



■ Live View Interface

To select different display mode: Event/Dev List/Map to show different status.

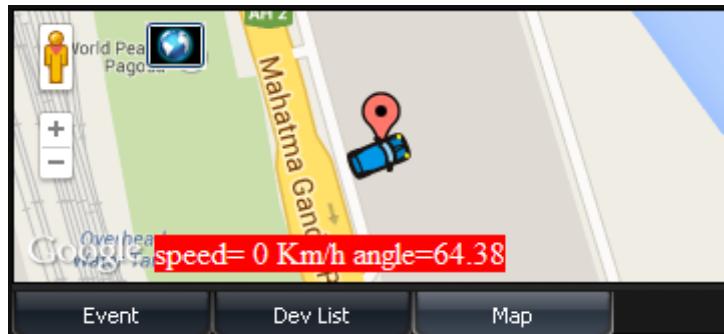
1. Event

Time	Info
[2013-12-17 09:43:18]	Connecting
[2013-12-17 09:43:18]	Version Error V1.0.4
[2013-12-17 09:44:14]	Disconnect
[2013-12-17 09:44:14]	Connecting
[2013-12-17 09:44:14]	Connected

2. Dev List

Time	Info
[2013-12-17 09:43:18]	Connecting
[2013-12-17 09:43:18]	Version Error V1.0.4
[2013-12-17 09:44:14]	Disconnect
[2013-12-17 09:44:14]	Connecting
[2013-12-17 09:44:14]	Connected

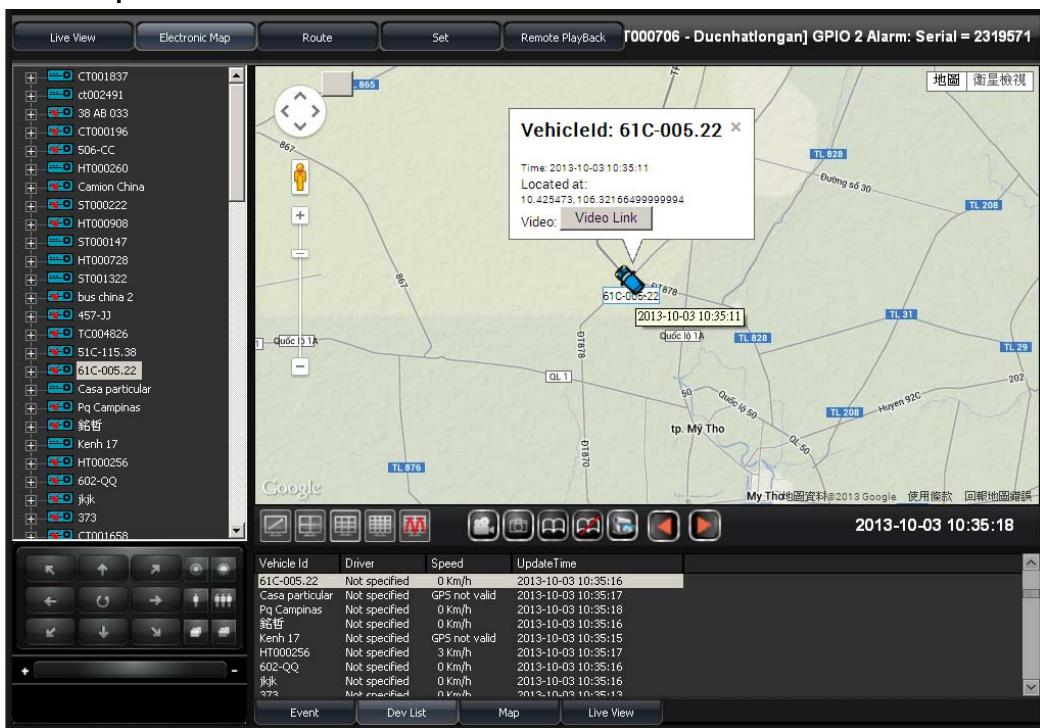
3. MAP



(3) Electronic Map

※G-Mouse must be equipped with Device to have GPS function to provide positioning information

Once positioning is done, you could use the mouse to click the device for current position.



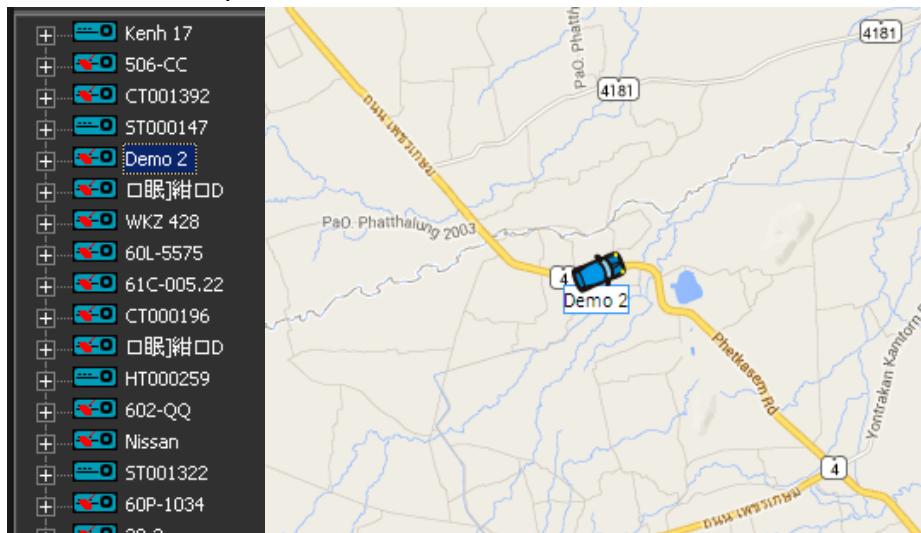
■ Device Positioning

 HT000259 Without GPS function.

 CT001837 With GPS function Device Positioning.

■ Electronic Map

Select the positioned device on the list, then it will show its position on the map.



◆ Live View Interface

To select different display mode: Event/Dev List/Map to show different status.

1. Event

Time	Info
2013-10-03 10:15:05	[CARG0109 - 皖13658] GPIO 0 Alarm: Serial = 2318839
2013-10-03 10:15:05	[CARG0109 - 皖13658] GPIO 0 Alarm: Serial = 2318840
2013-10-03 10:15:06	[CARG0109 - 皖13658] GPIO 0 Alarm: Serial = 2318841
2013-10-03 10:15:07	[ST000706 - Ducnhatlonggan] GPIO 2 Alarm: Serial = 2318842
2013-10-03 10:15:12	[TC002814 - 裝臘算] Online
2013-10-03 10:15:15	[CARG0102 - 裝臘算] Online
[2013-10-03 10:15:16]	[TC002766 - 口眼] Offline
[2013-10-03 10:15:16]	[HT000396 - 28-3] Offline

2. Dev List

Vehicle Id	Driver	Speed	UpdateTime
61C-005.22	Not specified	0 Km/h	2013-10-03 10:35:16
Casa particular	Not specified	GPS not valid	2013-10-03 10:35:17
Pq Campinas	Not specified	0 Km/h	2013-10-03 10:35:18
銘哲	Not specified	0 Km/h	2013-10-03 10:35:16
Kenh 17	Not specified	GPS not valid	2013-10-03 10:35:15
HT000256	Not specified	3 Km/h	2013-10-03 10:35:17
602-QQ	Not specified	0 Km/h	2013-10-03 10:35:16
jkjk	Not specified	0 Km/h	2013-10-03 10:35:16
373	Not specified	0 Km/h	2013-10-03 10:35:13

3. Map



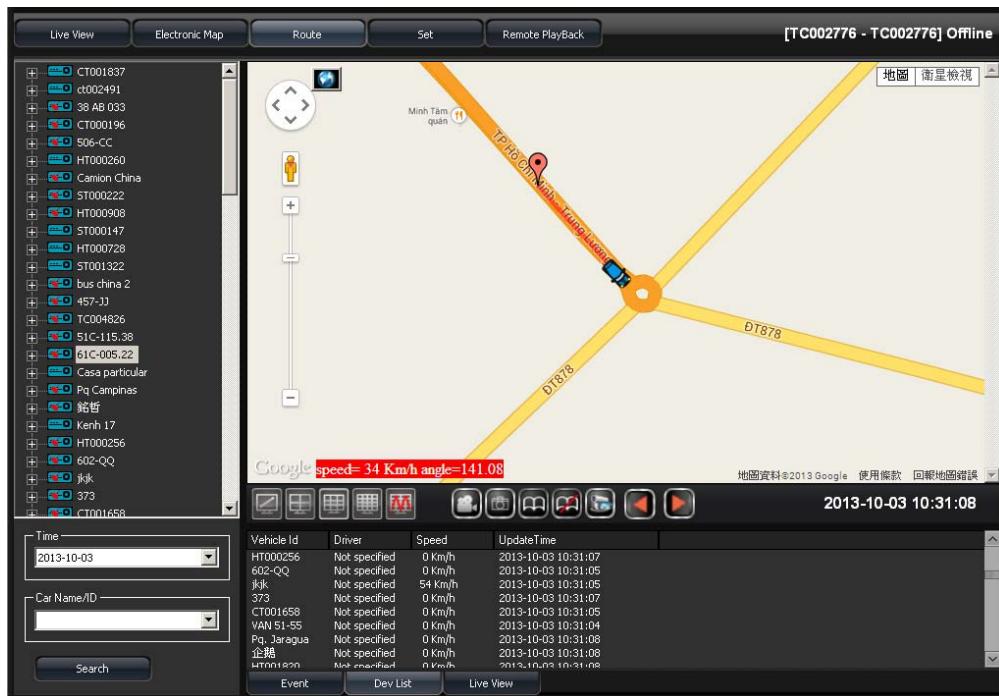
4. Live View



(4) Route

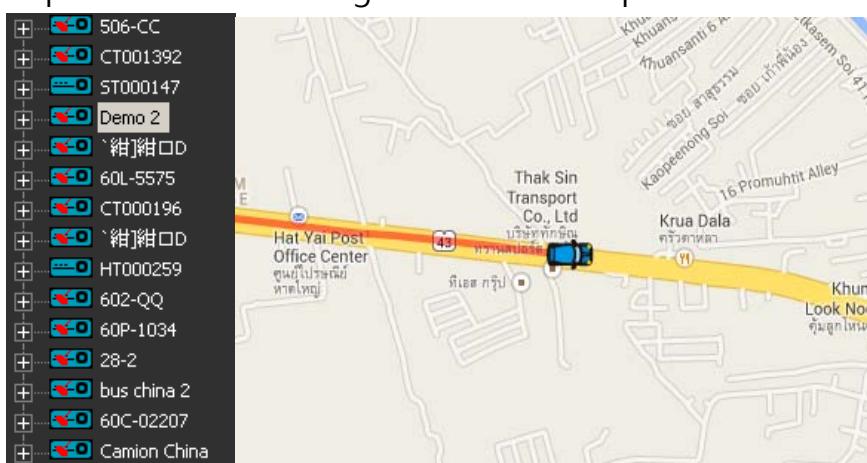
※G-Mouse must equiped with Device to have GPS function to provide positioning information

To display the positioned device at the track, you can notice the traveling route of the vehicle.



◆ Device Positioning Information

Select the positioned device on the list, then it will show its current position and traveling route on the map.



◆ Tracking Route Search

Choose Date and Car Name/ID to search the data



◆ Remote Live View Message Interface

Mode: Event/Dev List/Map/Live View

1. Event

Time	Info
[2013-12-17 09:43:18]	Connecting
[2013-12-17 09:43:18]	Version Error V1.0.4
[2013-12-17 09:44:14]	Disconnect
[2013-12-17 09:44:14]	Connecting
[2013-12-17 09:44:14]	Connected

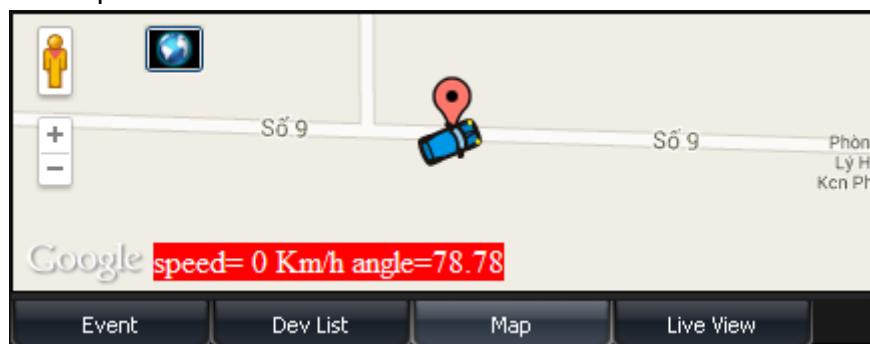
Event Dev List Map Live View

2. Device List

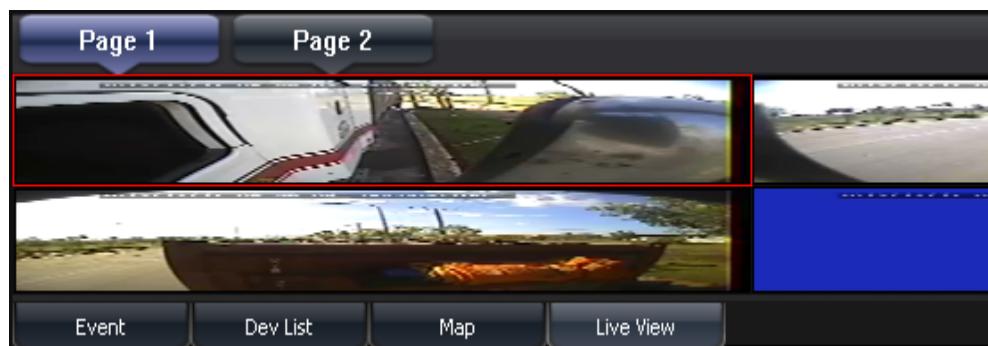
Vehicle Id	Driver	Speed	UpdateTime
47B-01140	Not specified	0 Km/h	2013-12-17 09:58:49
ST001612	Not specified	0 Km/h	2013-12-17 09:58:50
38 AB 033	Not specified	0 Km/h	2013-12-17 09:58:51
DL1PC-8928 ...	Not specified	0 Km/h	2013-12-17 09:58:50
Ducnhatlongan	Not specified	0 Km/h	2013-12-17 09:58:51
ST000147	test	GPS not valid	2013-12-17 09:58:48
60C-02207	Not specified	53 Km/h	2013-12-17 09:58:47
ST001322	Not specified	GPS not valid	2013-12-17 09:58:46
HTnnnnn50	Not specified	GPS not valid	2013-12-17 09:58:49

Event Dev List Map Live View

3. Map



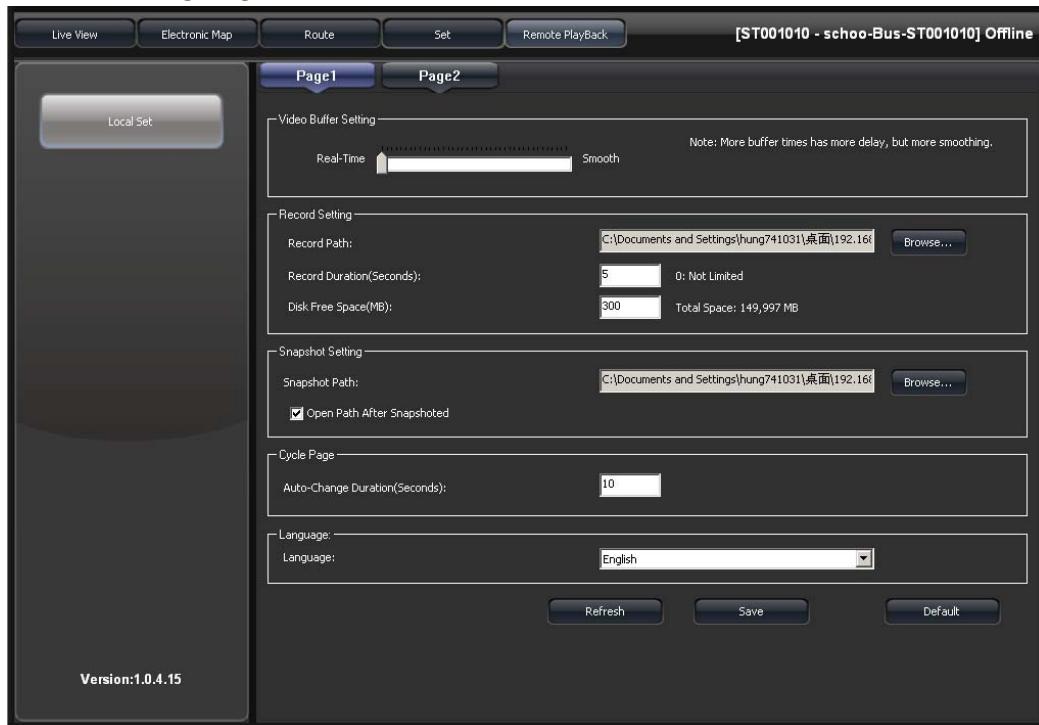
4. Live View



(5) Set

◆ Page 1

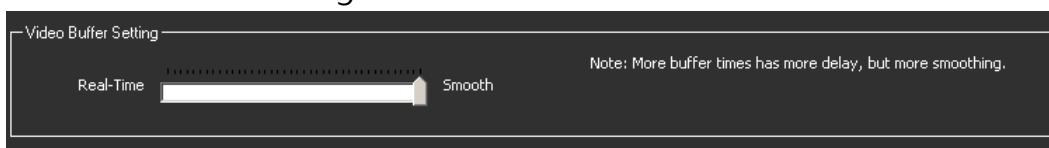
Setting the FPS, recording function, auto turn over page, and language.



1. Video Buffer Setting

Real-Time-> Higher frame rate

Smooth-> Higher video resolution



2. Recording Setting

Record Path, Record Duration (Seconds), and Disk Free Space(MB) are the relative options.

Record Setting

Record Path:	<input type="text" value="C:\Documents and Settings\hung741031\My Document"/> <input type="button" value="Browse..."/>
Record Duration(Seconds):	<input type="text" value="60"/> 0: Not Limited
Disk Free Space(MB):	<input type="text" value="300"/> Total Space: 149,997 MB

3. Snapshot Path

Set the path after snapshot

Snapshot Setting

Snapshot Path:	<input type="text" value="C:\Documents and Settings\hung741031\My Document"/> <input type="button" value="Browse..."/>
<input checked="" type="checkbox"/> Open Path After Snapshoted	

4. Auto-Change Duration (Seconds)

Set the duration in seconds of auto-change page.

Cycle Page

Auto-Change Duration(Seconds):	<input type="text" value="10"/>
--------------------------------	---------------------------------

5. Language

Set language display

Language:

Language:	<input type="text" value="Chinese (Taiwan)"/> <input type="button" value="▼"/>
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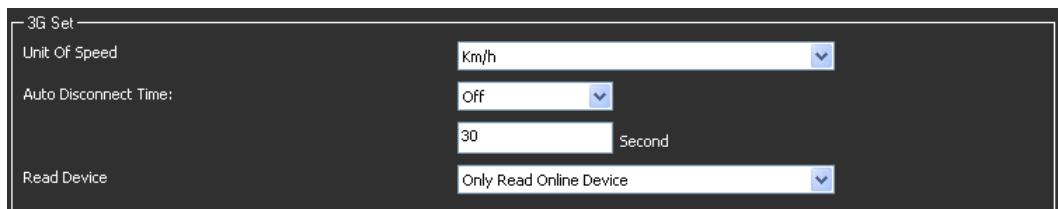
◆ Page 2

Setting 3G function, recording, and e-mail.



1. 3G Setting

Unit of Speed, Auto Disconnect Time, Read Device functions are available.



- Speed Unit: Speed unit of E-map and tracking route display
- Auto Disconnect Time: During live video playing, once it is set, the video image will be Close at the setup time.
- Read Device: To read all the devices or all available online devices. (If too many devices in this server, we recommend to select “only read online device” to have better PC performance.)

2. Event Record Setting

To set the video recording channel and duration, once the alarm is triggered. (Remark: Once this function is set, all of online device video will be recorded; hence, if there are too many devices in this server, we recommend to close this function to have better PC performance.)

Event Record Setting			
Alarm1	<input type="checkbox"/> CH1	<input type="checkbox"/> CH2	<input type="checkbox"/> CH3
Alarm2	<input type="checkbox"/> CH1	<input type="checkbox"/> CH2	<input type="checkbox"/> CH4
Alarm3	<input type="checkbox"/> CH1	<input type="checkbox"/> CH2	<input type="checkbox"/> CH3
Alarm4	<input type="checkbox"/> CH1	<input type="checkbox"/> CH2	<input type="checkbox"/> CH4
Record Duration	60 (seconds)		

3. E-mail setting

When the alarm is triggered, the server will send an e-mail to the specific account, please refer to the following figure.

Email Notify	<input checked="" type="checkbox"/>
SMTP Server	smtp.gmail.com
SMTP Port	Use SSL 465
Email Account	Test@gmail.com
Email Password	*****
Email Address	Test@gmail.com
Attach File When email	<input checked="" type="checkbox"/>
Email Test	

- SMTP Server : SMTP Server address.
- SMTP Port : SMTP port.
- Email Account
- Email Password
- Email Address
- Attach File when email

(Remark: E-mail setting: Once the alarm is triggered, the e-mail will be sent to all of online device; hence, if there are too many devices in

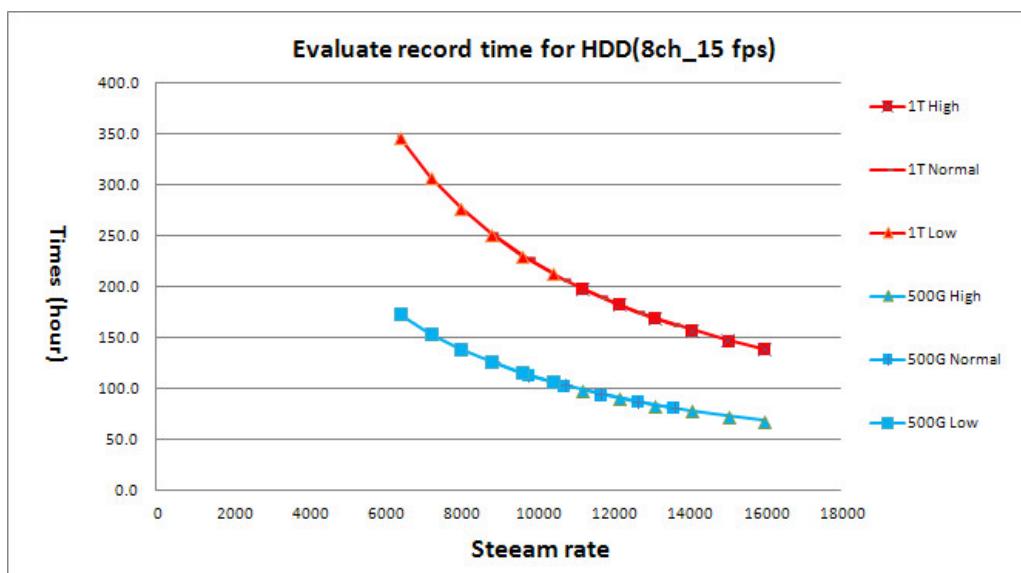
this server, we recommend to close this function to occupy unnecessarily the space of the e-mail account.)

SMTP list table

Mail	SMTP	SSL Port	StartTLS
Googlemail	smtp.gmail.com	465	587
Yahoo Mail	smtp.mail.yahoo.com	465	x
Outlook	smtp.live.com	x	587

O. Capacity Evaluation Of Continuous Recording Storage Device

The chart below is the dynamic status according to change of video stream. Suppose we use 500GB and 1T storage to get the result as below.



★Actual recording time is subject to the variety of the surroundings.

FCC INFORMATION

The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

The equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user should not modify or change this equipment without written approval from FUHO TECHNOLOGY CO., LTD. Modification could void authority to use this equipment.



For more information

Please visit VACRON website

<http://vvr.vacron.com>

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