VACRON
ADVANCES IN SECURITY SOLUTIONS

1 Channel H.264 FULL HD 1080P

Cloud Wearable Mobile Video Recorder

Operation Manual

Host

Bady Camera

2017 DEC. V1.0

■option ■ Functional option

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Safety Precautions

Dear Vacron user,
Appreciate for you purchase Vacron products. Please contact your local distributor if you meet any question or need for any assistance. We will offer you complete and in time service via local distributor. However, we still have rights to upgrade software and hardware without any kind notice beforehand. Please read this manual carefully prior to use of this product.

Installation Precautions

- Before installation, please insure wires and cables connect correctly.
- Device has to install in ventilated environment and the installation have to guide or help by professional device installer.
- Please use storage device that recommended by manufacture, and purchase the storage device from official purchase channel.
- Please contact local distributor and technology support service if you have any question and need any help during product usage

In Use Precautions

- Please avoid any solid or liquid get into the inner components.
- 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.

Surrounding

- Please have the DVR under recommended temperature set it away from the sun and heating source.
- Please keep this equipment away from humid surrounding.
- Please keep this equipment away from smoke and dust environment.
- Please avoid strongly collision and do not drop the equipment.
- Please set this equipment in ventilation space, and do not block the device’ s ventilator.
- Please use device under rated voltage and Amp.
- Please keep flammable objects away from the equipment.

A. Product Accessories

Please check every accessory we list below, make sure everything include in the product package before use. If you found any thing missing, please contact local distributor.

Note：The product set does not come with memory card, please purchase the memory card separately.

Standard Set:

1. VVG-MDE55 Host device, 1 meter camera cable
2. WiFi dongle
3. Waist bag
4. Quick start manual
5. CD

Optional:

1. Power bank
2. 3G/4G Wireless network dongle
3. Bluetooth dongle
4. 8/16/32G/64G Class10 above SD card

B. Features

1. Personal wearable video recording system, 1 Channel high resolution 1080P, use H.264 image compress technology, which ensure image dose not distorted.
2. Use SONY Low luminance high sensitivity camera, with 140 degrees wide-angle lens.
3. Built-in touch button and LED lights for show the device status, with a microphone that can records video at the same time
4. H.264 compression format, Full HD video resolution.
5. With high-capacity power bank supply, recording video for a long time without interruption, ensure device is record every important moment.
6. Devices starts recording automatically when mobile power supply is on, and automatic save files after power off.
7. Built-in WiFi, capable watch live video, playback and backup files by download APP in IOS or Android system.
8. For military, police, other law enforcement officers, postmen, security and other service personnel that require contact with large amount of people.
9. Backup files in cloud, capable watch and playback files in cloud server.(optional)
10. Made in Taiwan, three years warranty for host.

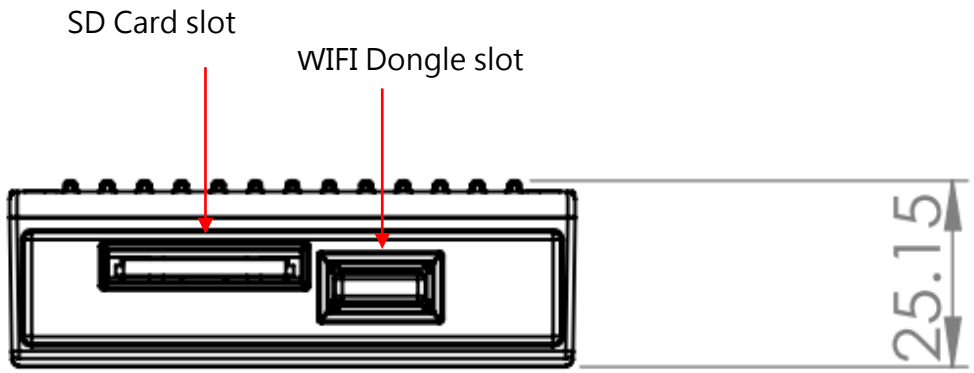
C. Specifications

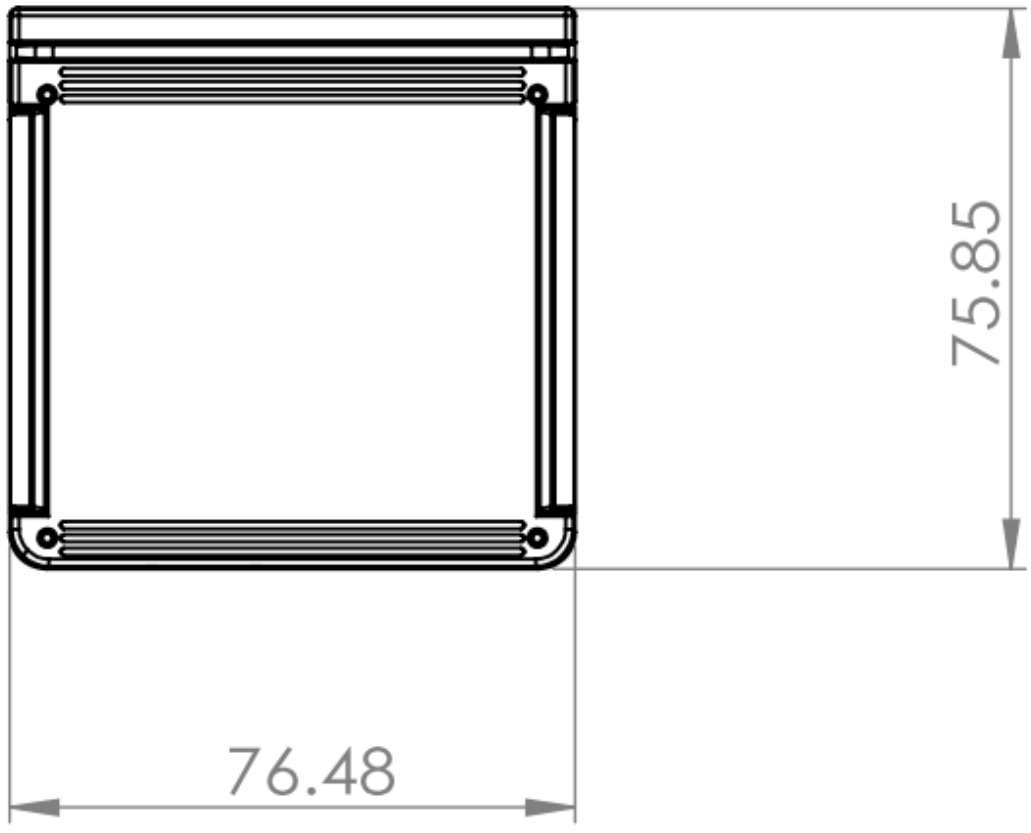
VVG-MDE55 **Specifications**

Terms	Specifications
Resolution	NTSC 1920x1080@30fps / PAL 1920x1080 @25fps
Display mode	Single image
Simplex mode	Record/Play
Storage device	SD Card, recommended to use Class 10 or above (8GB above SD card support Max. 128GB), require buying separately.
G-SENSOR	Yes
System monitoring	Recording automatically when power is on
WIFI	Built-in WiFi dongle
Bluetooth	Optional, Bluetooth dongle
3G / 4G	Optional, 3G&4G wireless USB dongle
Cloud	Optional
Dimensions	Width 80 * Depth 78 * Height 26 mm
Image sensor	SONY 1/2.9" CMOS Digital Image Sensor
View angle	Wide angle 140 degree
Power	Mobile power DC 5V / 1A above
Operation temperature	-21℃ ~ 60℃
Input	(a) Power input cable: DC5V power input (b) Image input: Micro Din connector (c) WiFi dongle (d) 3G/4G USB wireless dongle (optional) (e) SD card slot (f) Bluetooth wireless dongle
Output	Waterproof connector

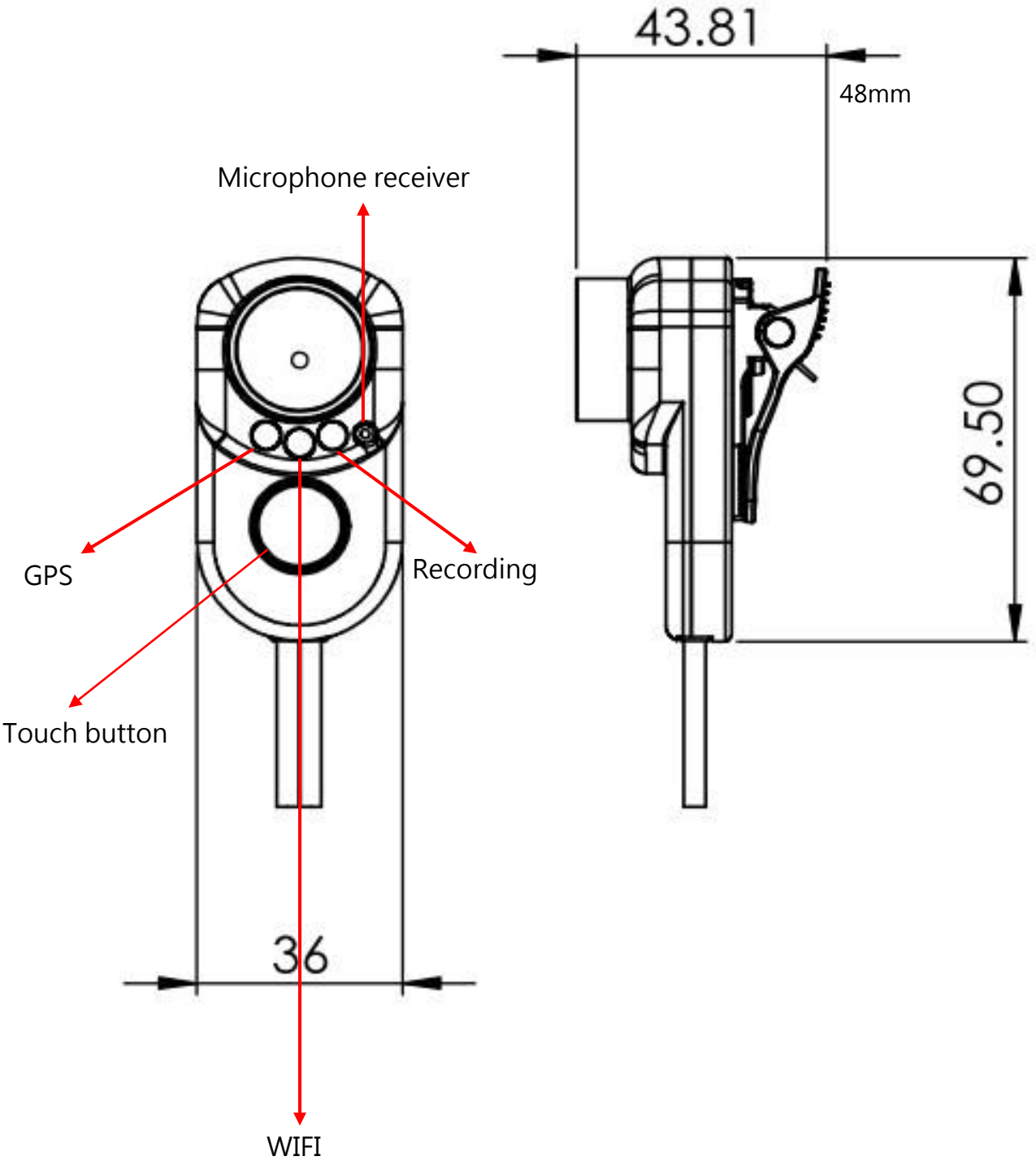
D. Appearance/ Dimensions

DVR host unit: mm





Camera Unit: mm



E. SD Card / WiFi wireless card installation

Water-dust proof cover

SD card

WiFi dongle

(1). Remove water-dust proof cover to install/take off the SD card or WiFi dongle.
(2). For format/restore SD card please refer to other chapter.

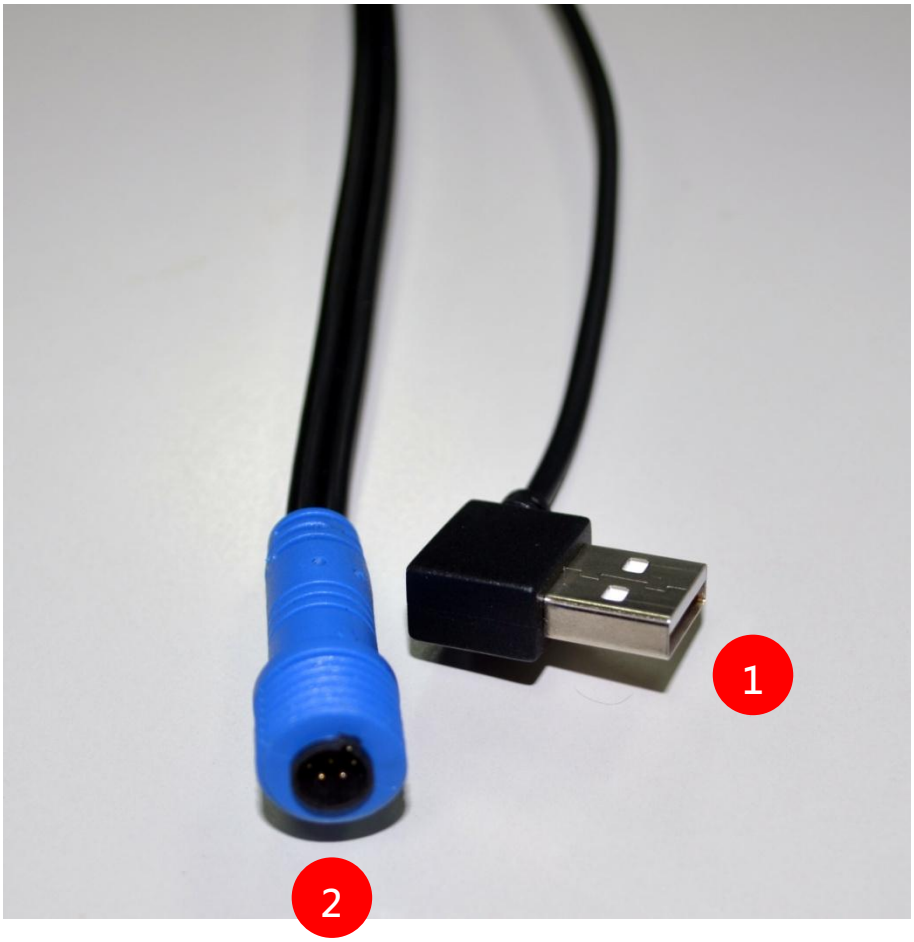
Attention

1. Suggest using class 10, 8GB above SD card
2. Before using the memory disk, please format the disk first by using the software player. 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. When you using new memory card insert host, the device will format the memory card, and beginning recording after approx. 2 second.
7. 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.
8. When accident happen, please remove SD card and set it as write protection condition, for avoid record being over writing or tampering.

F. Cable Installation

- **DVR cables**

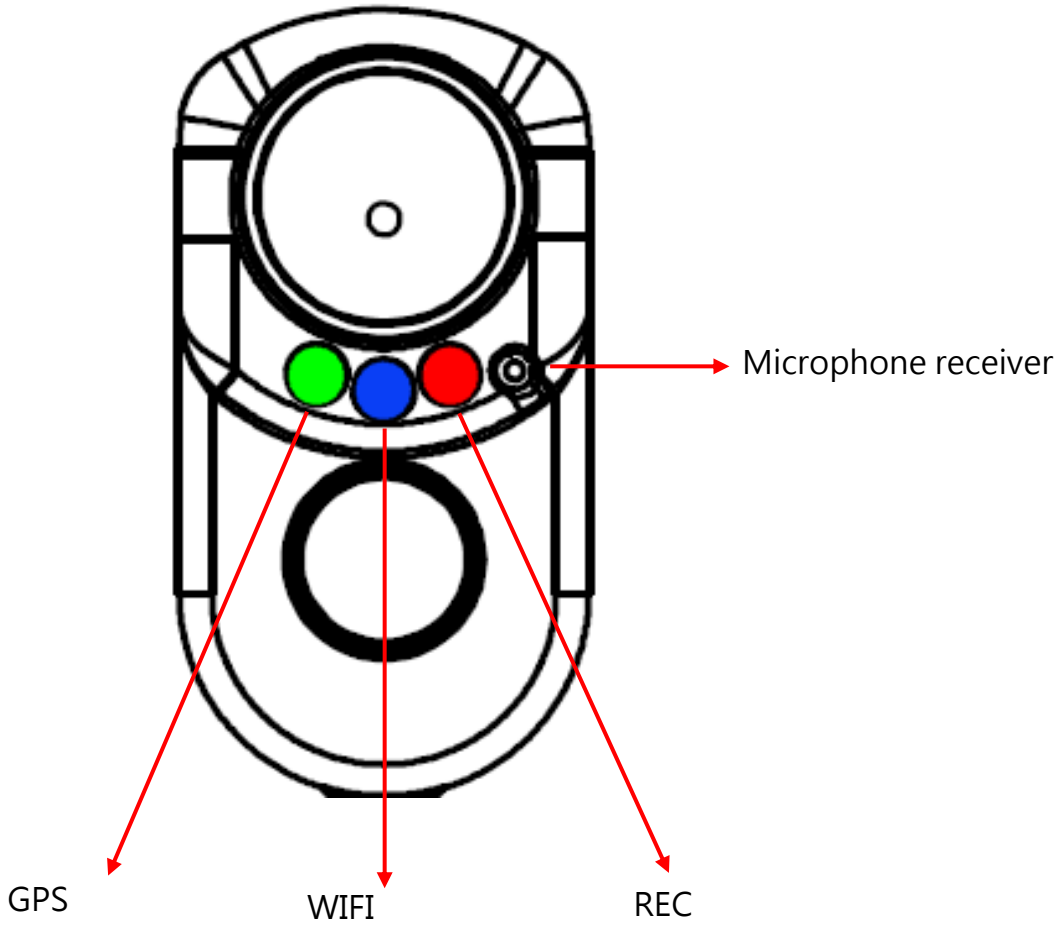


(1) Power connector

(2) Camera connector

Note: device power require use with Mobile power pack.

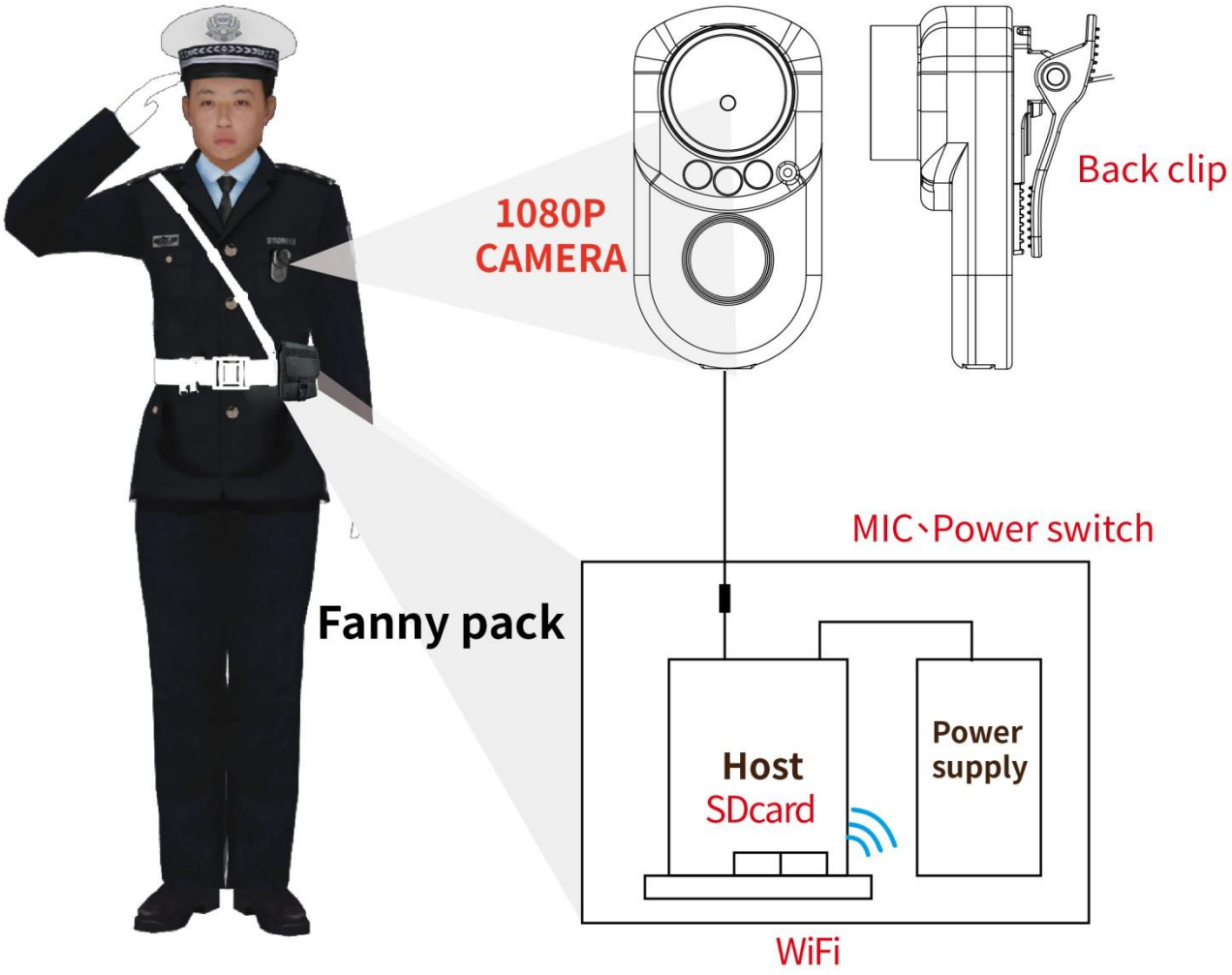
- **Camera**



(A) GPS(green light): GPS search and position.
(B) WIFI(blue light): WiFi search and connection
(C) REC(Red light) : Video recording and error
(D) Microphone receiver: Built-in microphone receiver

G. Installation diagram

Product Installation diagram (For reference only)



Installation Notes

(a) During installation, please put the host and mobile power pack inside the waist pack. The camera is equipped with multi-turn clamp, please install it in proper position as user’s requirement.

(b) Do not use adapter card with Micro SD card. It is may lead to bad connection due to shock and vibration.

(c) GPS position time affected by install positon, weather condition and so on.

Attention

(a) It is recommended put the device inside the waterproof waist pack, because the host dose not waterproof. Please ensure the waist pack cover is close after installation

(b) During the installation, please check the camera waterproof connector and power connector condition, prevent video error that caused by poor contact.

(c) Make sure the mobile power pack have enough power for avoid stop recording.

(d) Memory card may have compatibility issue due to manufacture process change or adjustment. This device does not guarantee can compatibility with all current memory cards. Change memory card mode If user meet the compatibility issue.

(e) 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.

(f) Memory card has limit lifespan, please regularly watch videos on PC and check the memory disk to ensure proper functioning.

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

(h) When accident happen, please remove SD card and set it as write protection condition, for avoid record being over writing or tampering.

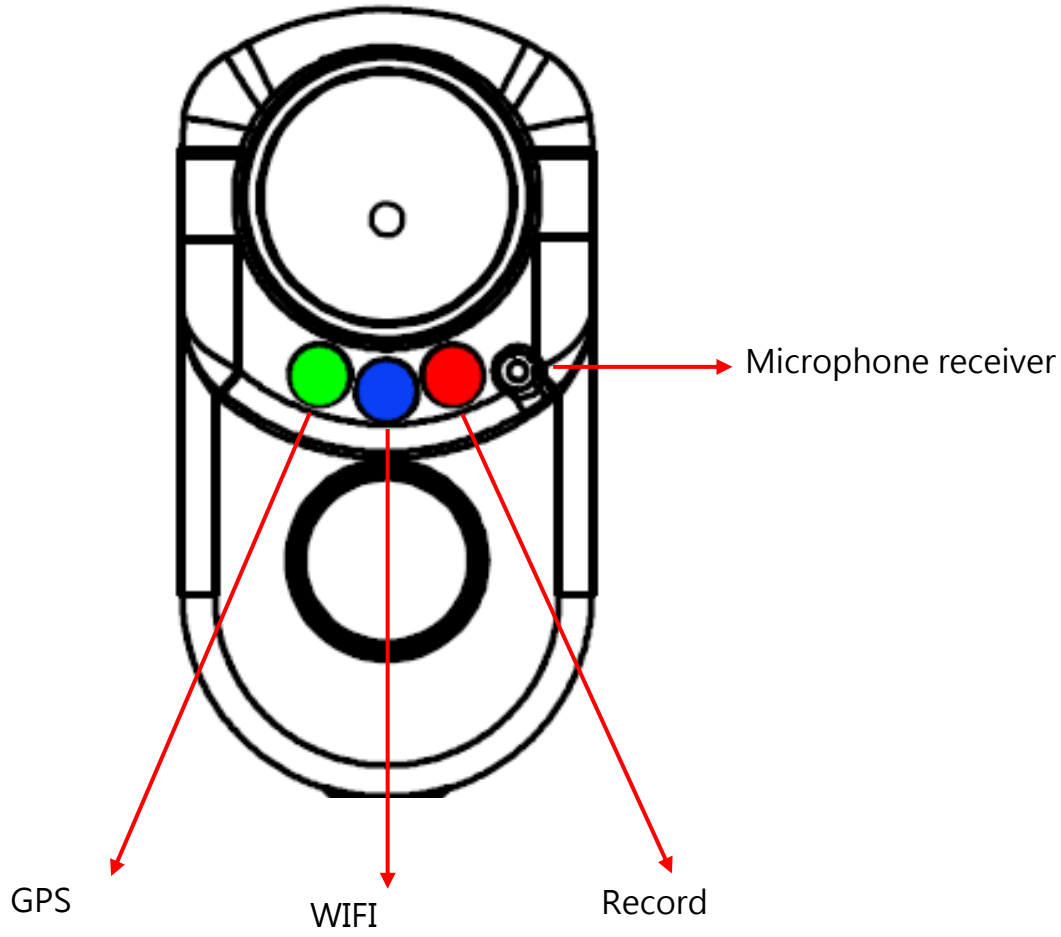
(i) For avoid power connect error, turn off device power before install or remove camera.

H. Recording and Stop recording

1. Boot / Recording

1-1 OBD

Device boots after power on, and wait approx. 15~20 sec. system starts to recording when REC red light is flashing.



Light signal

- GPS(Green): Flashing means GPS is positioning, consistent green light means GPS positioned successfully.
- REC(Red) :
  1. Recording: Light flashing once per second
  2. Event trigger: the light flash rapidly.
  3. Do not insert SD card or use damage SD card: The light always on.
  4. Camera lost image input or image input error: The light always on.
  5. Light will flash rapidly during system update, after update success,

the device will reboot and record video as normal.

- WIFI(Blue)：
  (a) Blue light off: system does not detect, does not install USB WIFI Dongle, or the WiFi Dongle was damaged.
  (b) Blue light flashing: System detected USB WIFI Dongle and waiting for connect with WiFi Dongle.
  (c) Blue light on: success connect with WiFi

1-2 Touch button

- Force recording: Device will trigger the forced recording by press once and then quickly release the force recording button, the red light blink rapidly, and light will back to normal flash frequency after the forced recording ends.
- Light signal display (On/Off): press this button for 5 second, all light signal will turn off, and then press 5 second all the light signal on.
- Reset device: press this button for 15 second; LED will turn off after 3 second. The device will be reset and record video as manufacture default setting.

2. Shut off/Stop recording

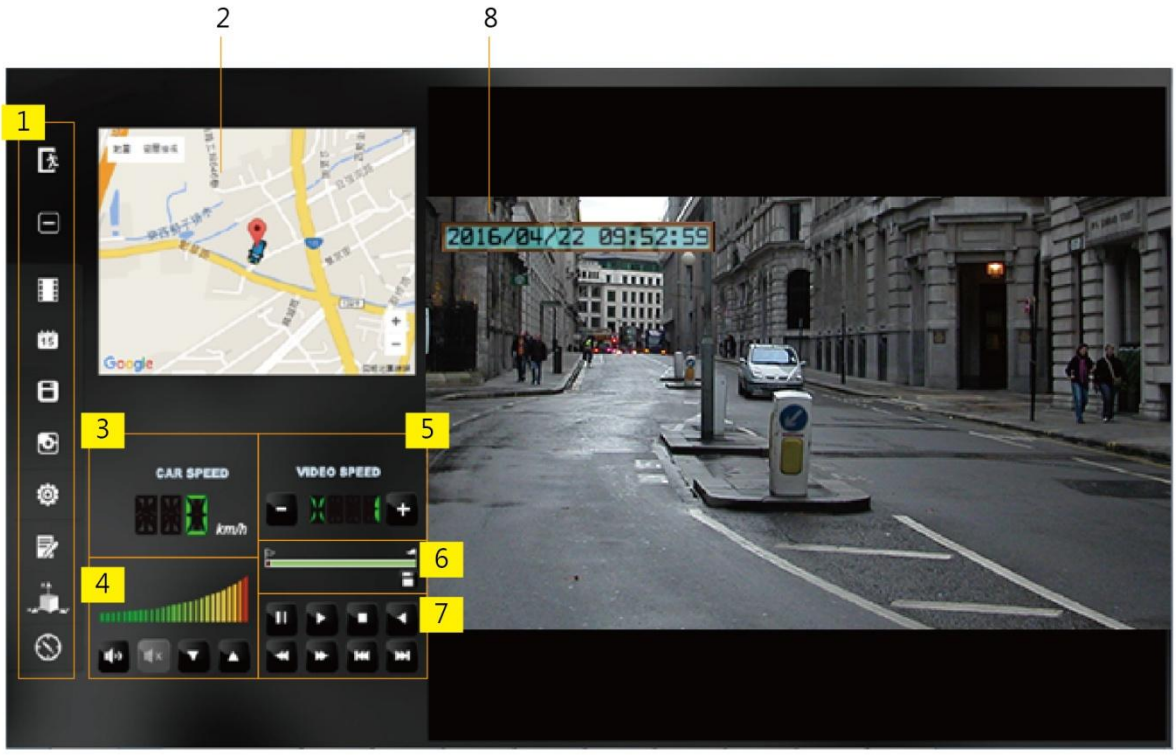
Device stop recording after remove mobile power connector, at this point,system will write the buffer back to SD card. In addition, after all light turn off, user can remove SD card and get all video files from it.

I. PC Player

Run the player software by press , player shows screen as following:

◎NOTE: The software requires Direct X version 9.0 or above.

1. Viewer interface



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

2. Function control interface

	Close
	Minimal
	Select and playback file
	Calendar
	Backup
	Screen shot
	Setting
	Tool box, for format SD card, language setting
	G-sensor
	Compass

3. Play & Setting Icon Instruction

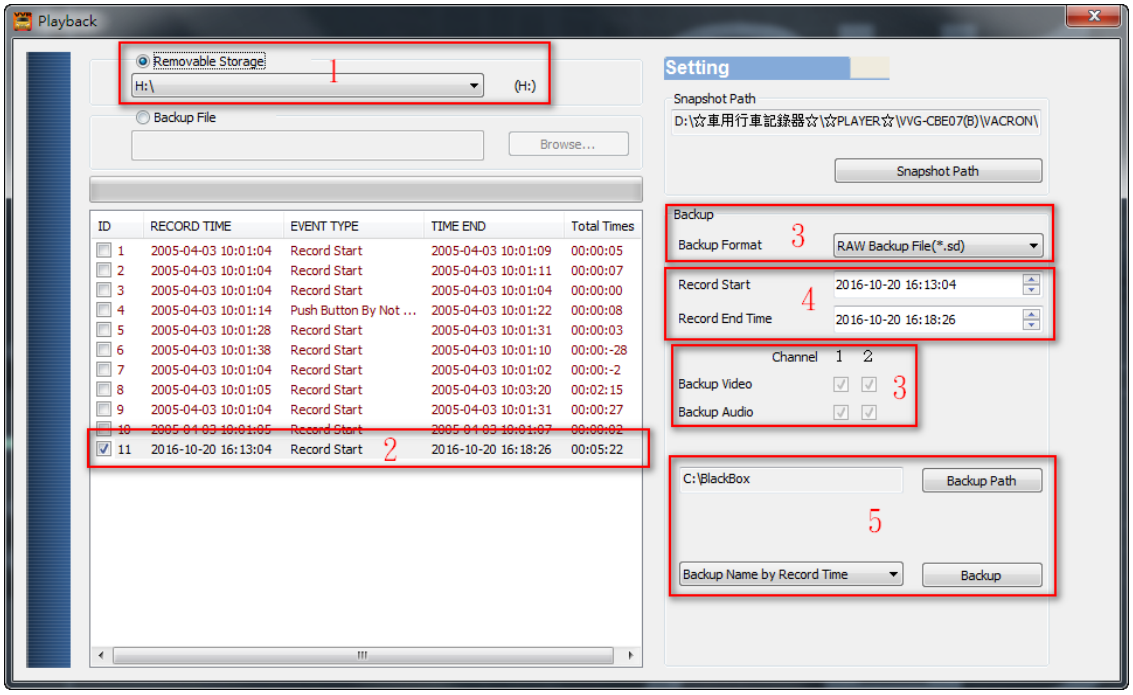
	Play previous file
	Play previous frame
	Play backward
	pause

	stop
	Play
	Play next frame
	Play next file

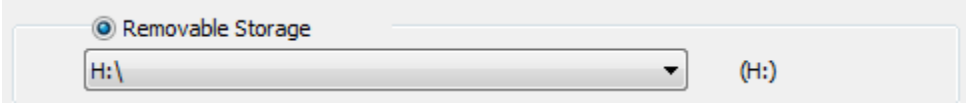
J. Data Backup

Save data from SD card to PC or other device.

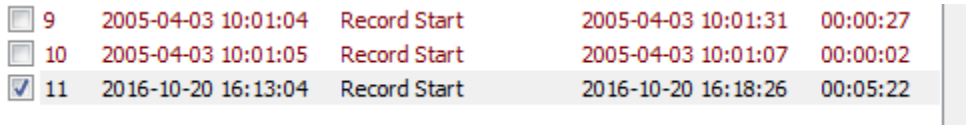
Use PC player and click to enter backup interface:



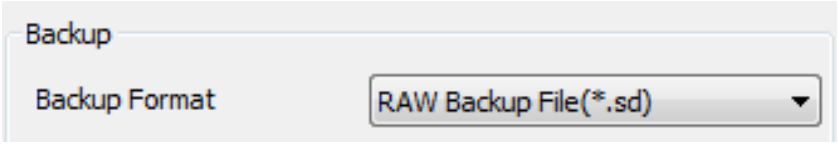
Step1. Choose SD card source:



Step2. Choose backup files



Step3. Choose backup data format



Data format：

1. SD card original format (RAW)

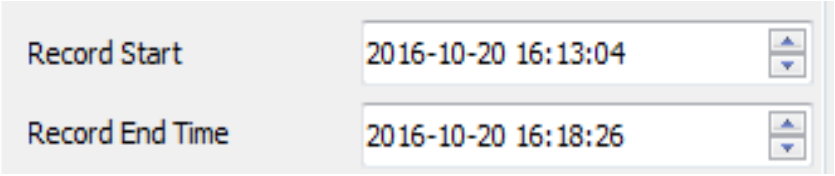
2014-05-27-18-10-03.sd	RAW file *.sd

2. AVI Format (*.avi)

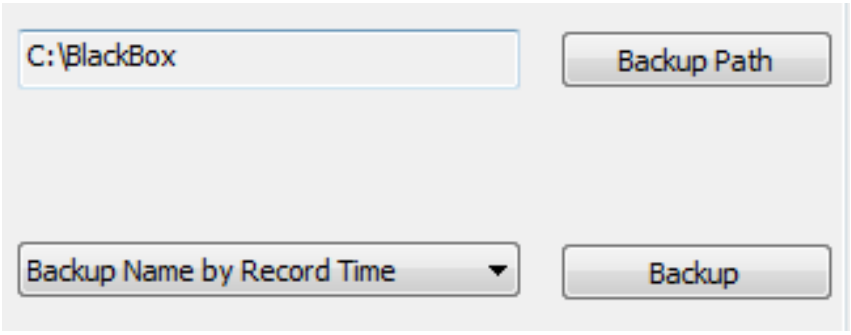
2014-05-27-18-11-07-Cam1.avi	Cam1 and Cam 2, *.avi file

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 date in *.AVI

Step4. Select the backup beginning time point



Step5. Select the path and start backing up

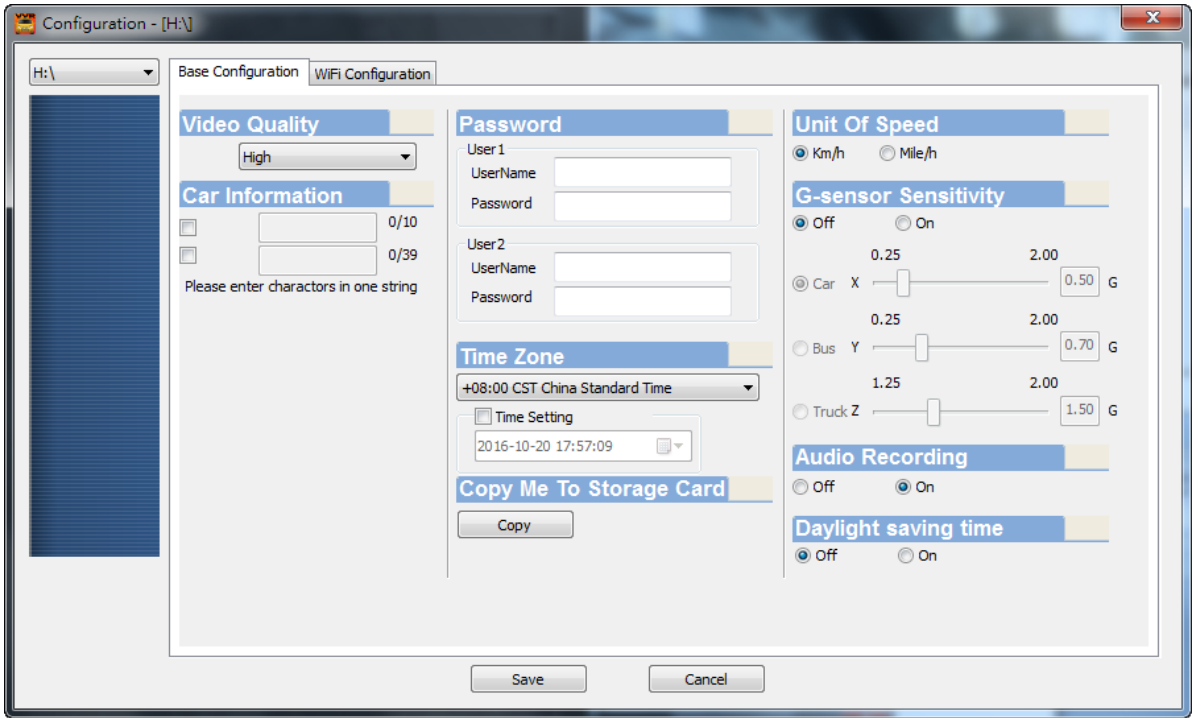


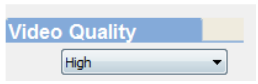
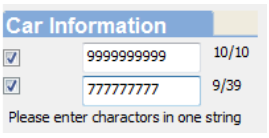
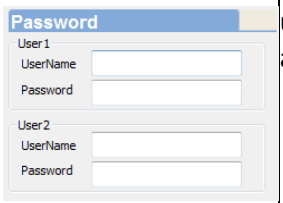
K. Memory Card

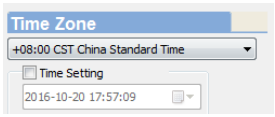
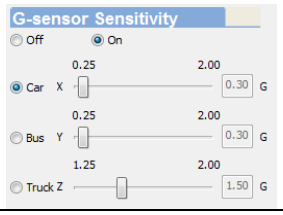
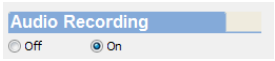
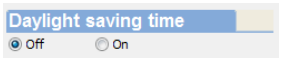
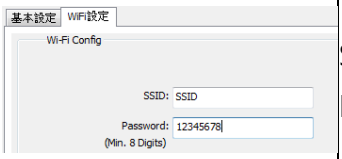
Please insert SD card into card reader and launch player on your computer to do card formatting.

Click on player to do setting:

Choose disk



1	Video Quality		Select video recording quality as：High, Normal, Low.
2	Car machine message		Identification message, can input car plate number or driver's name…etc.
	Password management		This feature encrypts the hard drive to prevent other person access to data. Set the password up to 15 characters. For access the file, setting, and format disk require enter the password. ★Note: Pay attention with capital letter during password setting, keep your password safely prevent password forgetting.

4	Time Setting		Greenwich Mean Time, adjust it with desired
5	Copy to SD card player		Copy files from Player to SD card storage
6	G sensor		Use X-Y-Z axis vibration detection to determine the collision and forced recording.
7	Audio Recording		Set audio record: OFF / ON
8	Daylight Saving Time		Set the daylight saving time： OFF/ON
9	WiFi setting		SSID: type in WiFi connect ID。 Password: WiFi connect password

L. Google Map drive track playback(optional)

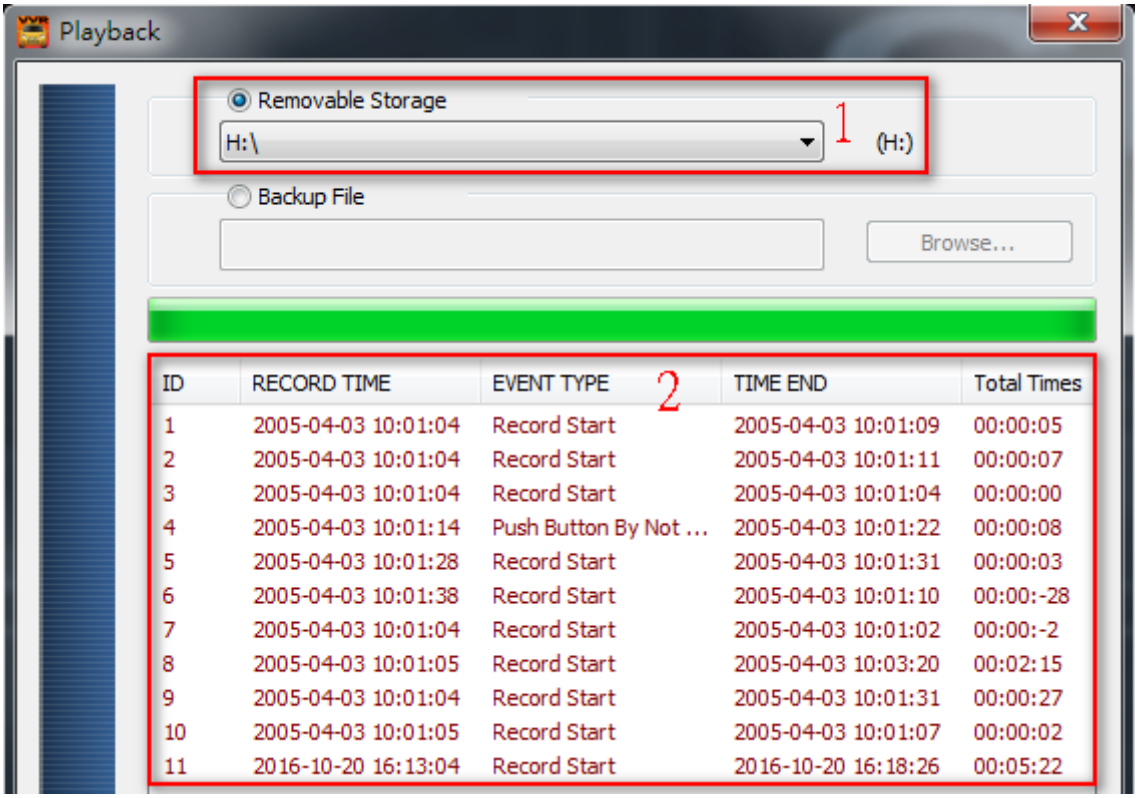
If there is GPS signal files, the device will be able to record route track and playback the route track during video file playback.

Tracking path

M. Playback files

Playback on PC player

Click to enter playback mode



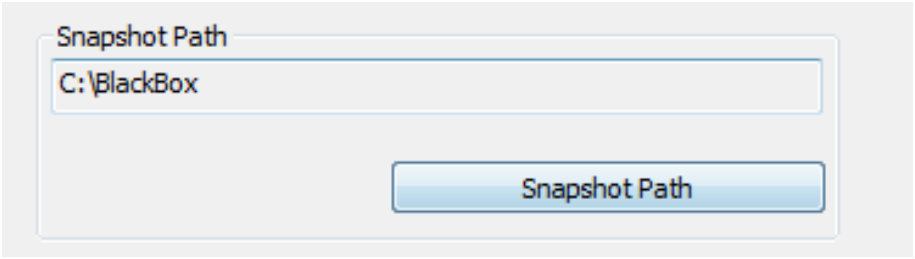
ID	RECORD TIME	EVENT TYPE	TIME END	Total Times
1	2005-04-03 10:01:04	Record Start	2005-04-03 10:01:09	00:00:05
2	2005-04-03 10:01:04	Record Start	2005-04-03 10:01:11	00:00:07
3	2005-04-03 10:01:04	Record Start	2005-04-03 10:01:04	00:00:00
4	2005-04-03 10:01:14	Push Button By Not ...	2005-04-03 10:01:22	00:00:08
5	2005-04-03 10:01:28	Record Start	2005-04-03 10:01:31	00:00:03
6	2005-04-03 10:01:38	Record Start	2005-04-03 10:01:10	00:00:-28
7	2005-04-03 10:01:04	Record Start	2005-04-03 10:01:02	00:00:-2
8	2005-04-03 10:01:05	Record Start	2005-04-03 10:03:20	00:02:15
9	2005-04-03 10:01:04	Record Start	2005-04-03 10:01:31	00:00:27
10	2005-04-03 10:01:05	Record Start	2005-04-03 10:01:07	00:00:02
11	2016-10-20 16:13:04	Record Start	2016-10-20 16:18:26	00:05:22

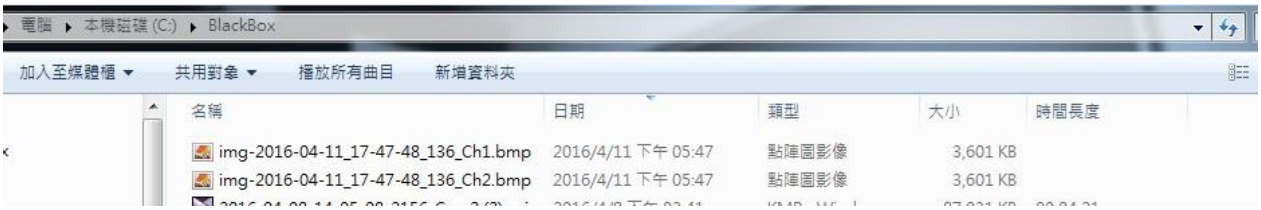
(1). Select the path of the memory disk or a backup file on the hard disk.

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

N. Snapshot tool

User can take a snapshot of the current frame by pressing to save screenshot. Snapped image is default saved to C: /Black Box, user can enter to set image path. Data format is *.bmp





O. Format / Restore SD card

Q1. When do user need to format SD card?

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

★Note: This recording system cannot delete some specific video file, backup video files that you need before format.

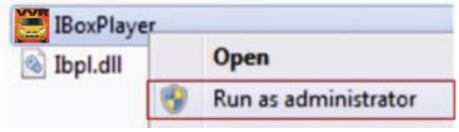
Q2. When does user have to restore SD card?

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

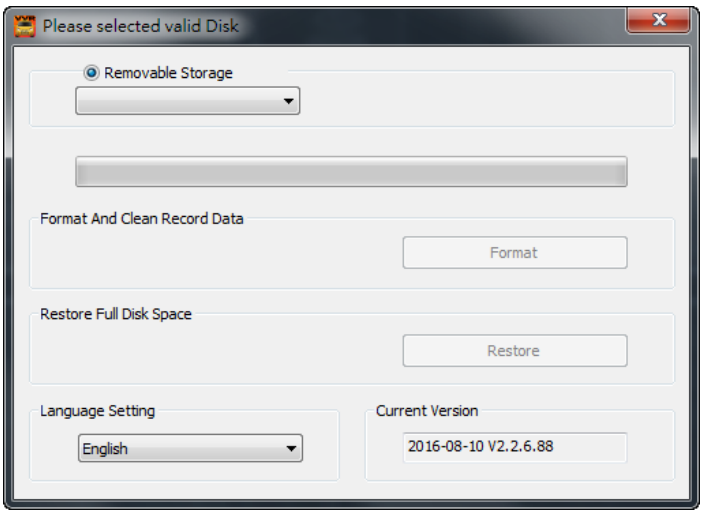
(2). Please use "RUN AS ADMINISTRATOR" to format SD card.



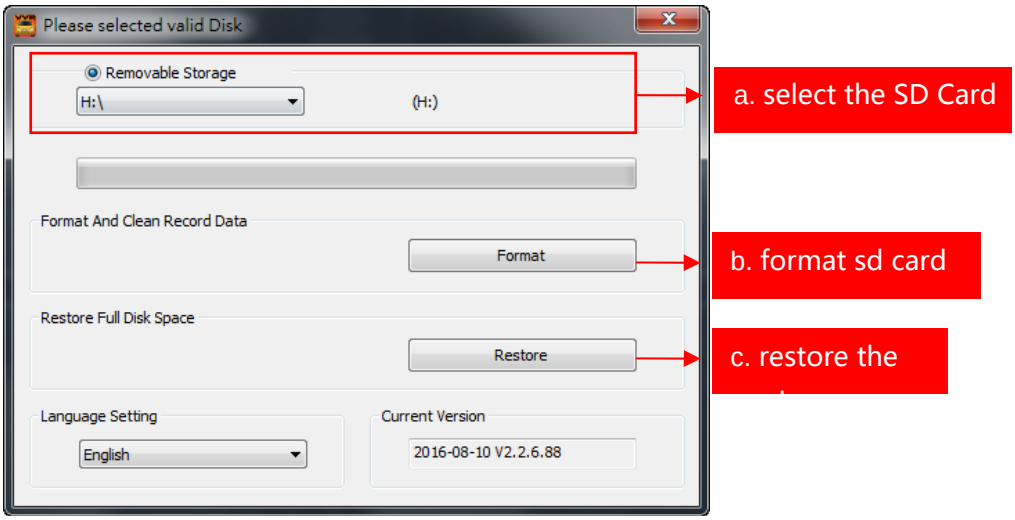
Q3. How to format/restore SD cards?

(1). Put the SD card into a card reader, and then plug the card reader into your computer USB slot.

(2). Play software, click to enter formatting tool.



(3). Select memory card position and choose format or restore SD card as user’ s requirement.



(4). After SD card be format or restored, it can be use as user’ s requirement.

P. WiFi connection

(a)、QR Code download：

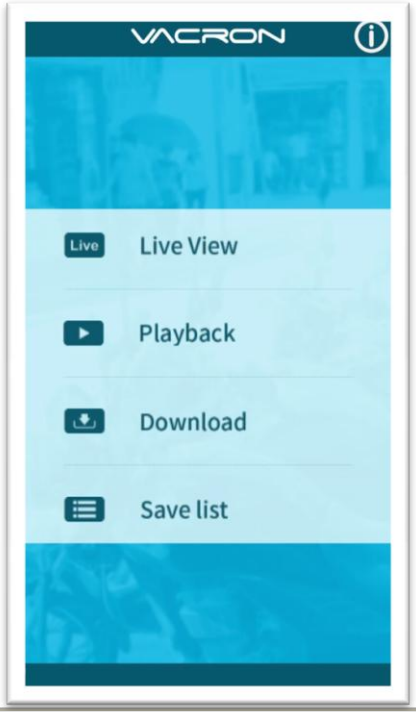
VACRON PLAYER FOR IOS

VACRON PLAYER FOR ANDROID

(b)、Android:

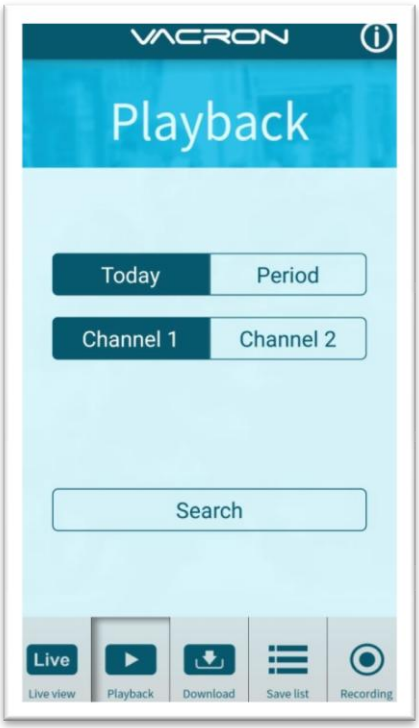
1. Visit Google play store, search for " Vacron Player " and download
2. WLAN connection, type in「DIRECT-SSID-XXXXXX」as user ID, password as 「12345678」.
3. Open "Vacron player", watch real time video record by select real time video
4. Select「Playback」: Capable play all video files that storage in SD 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. 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 desire.

2. Custom : Choose channel1 or channel2,at meanwhile, setting date and time period, press search, it will showing all video record that record during this range, select and playback any video record as your desire.

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

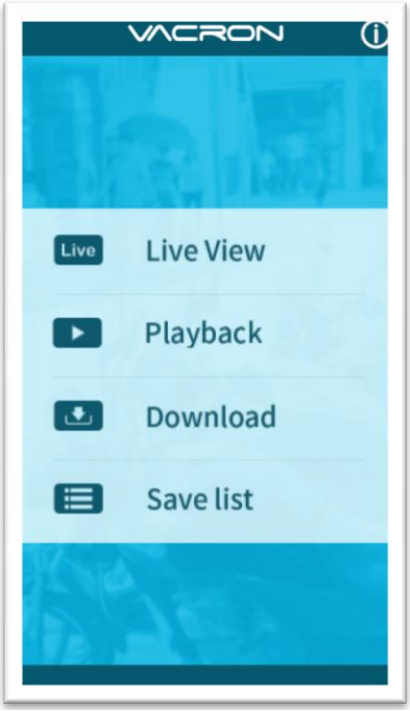
video fragment:

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

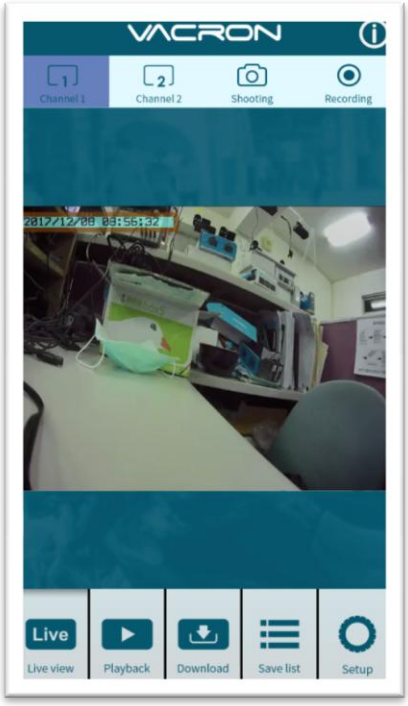
(c)、IOS:

1. Search and download “Vacron player” in Apple store.
2. WLAN connection, type in「DIRECT-SSID-XXXXXX」as user ID, password as 「12345678」.
3. Open “Vacron player”, watch real time video record by select 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.

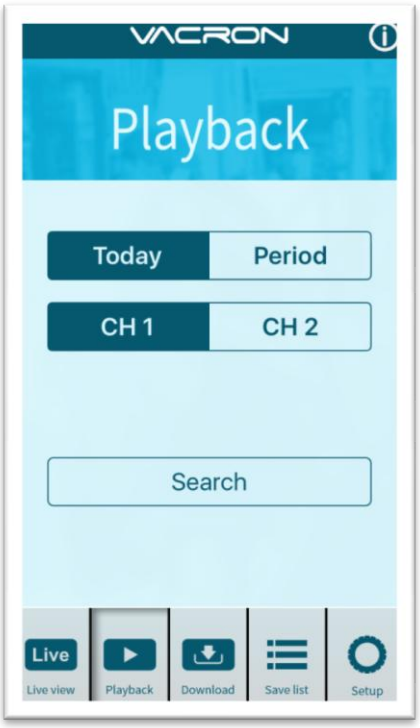
APP main menu



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 desire.

2. Custom : Choose channel1 or channel2,at meanwhile, setting date and time period, press search, it will showing all video record that record during this range, select and playback any video record as your desire.

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.)

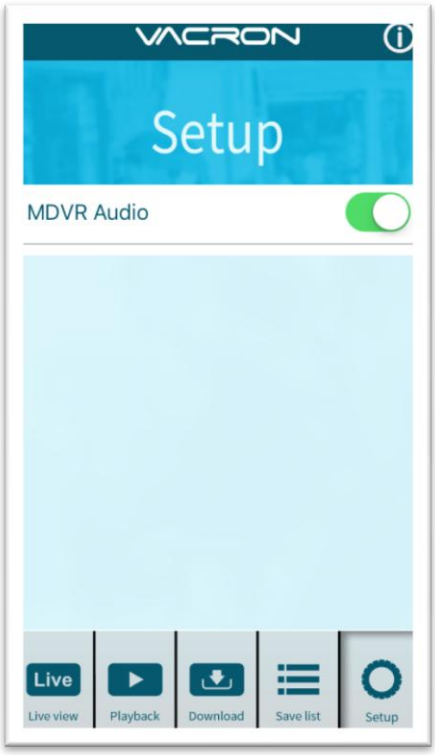
2. Press download to download video file, the complete download time length depends on file size. Normally, is takes approx.1 to 2 minutes, the download format as MP4.

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"

Setting



Setting:

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

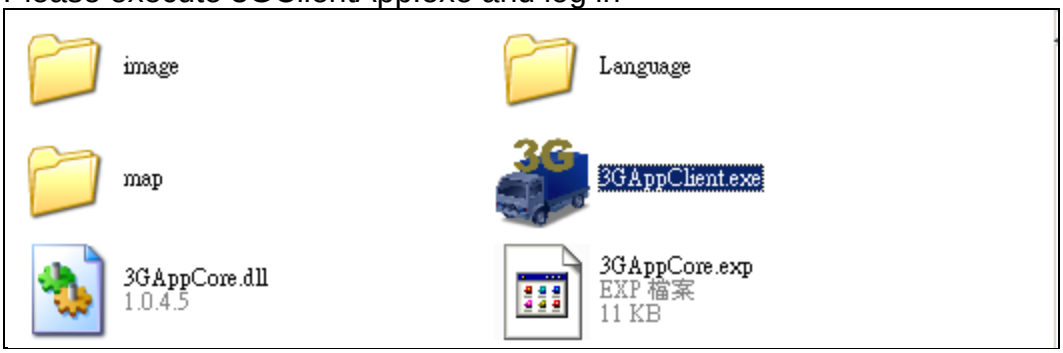
Attention

1. Live image may delay cause by wireless signal connection error.
2. Remote control only use for records that storage in device, record cannot be search 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.

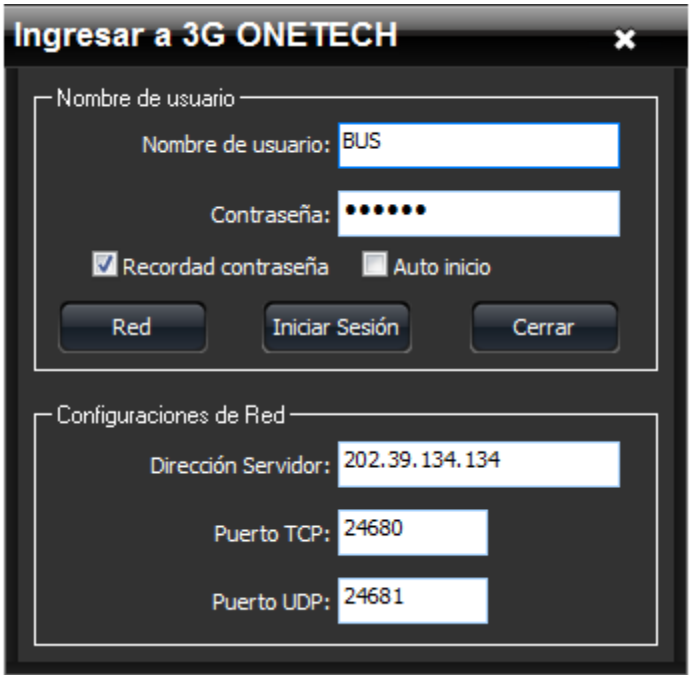
Q. 3G Client remote surveillance(optional)

(1) Login

Please execute 3GClientApp.exe and log in

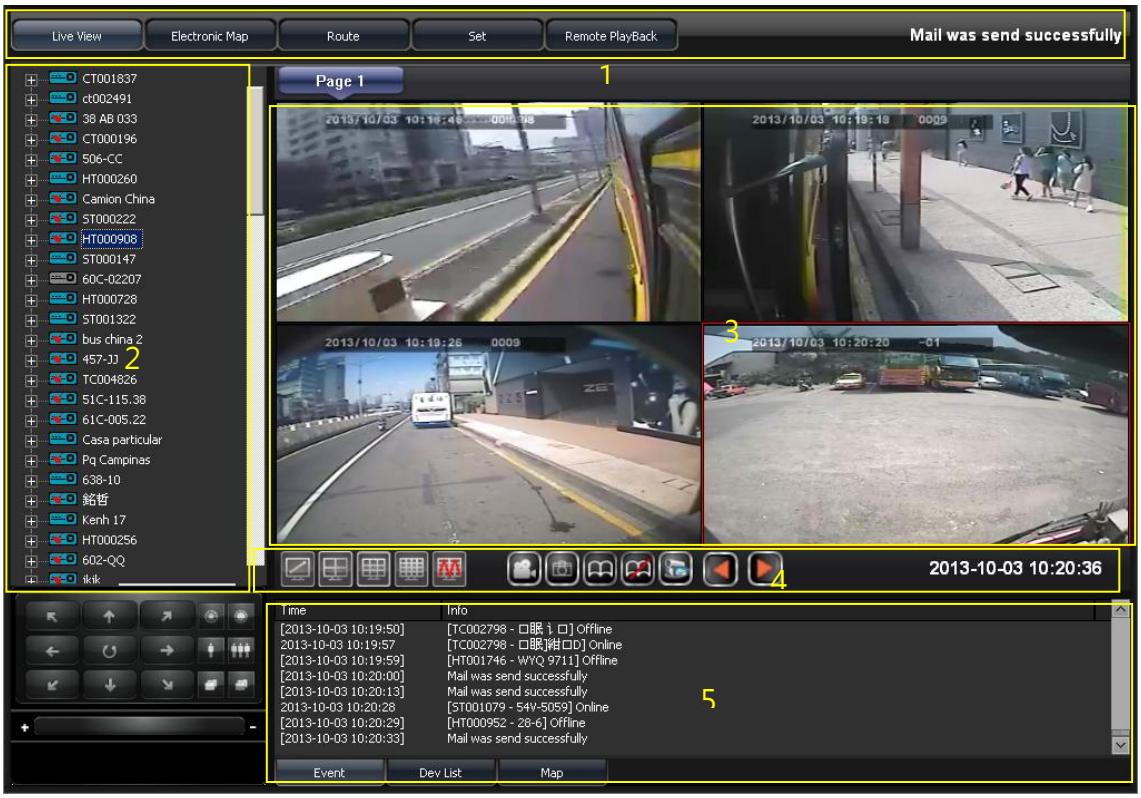


Log in page shown as below, key in the user account and password to log in the system.
Note: The version of executed software must be installed DirectX 9.0 above.



User Account	User Account
Password	User Password
Central Server IP	Server IP setting on the local device (Default setting is Taipei Server IP: 202.39.134.134)
Central Server TCP Port	Server TCP Port(Default Setting:24680)
Central Server UDP Port	Server UDP Port(Default Setting:24681)

(2) Live View

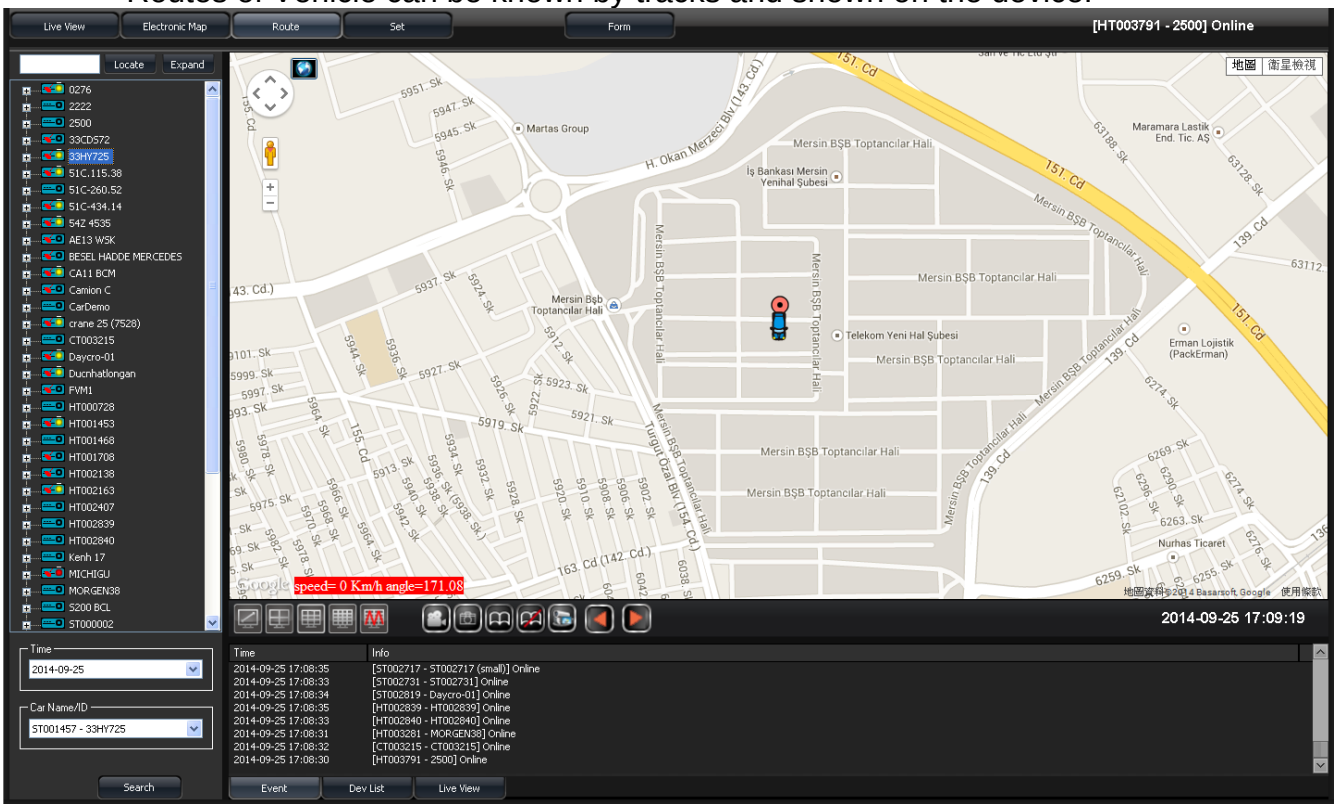


1	Display Operation Interface
2	Equipment lists **Device Positioning Light Description** devices that are not positioning by GPS GPS positioning is ready. Yellow light is idling status. Red light is over speed status
3	Live view Display
4	Windows Division/Function Bottom
5	Events Information/Device List/ Map

(3) Track path

※The Device need to use G-mouse for GPS positioning

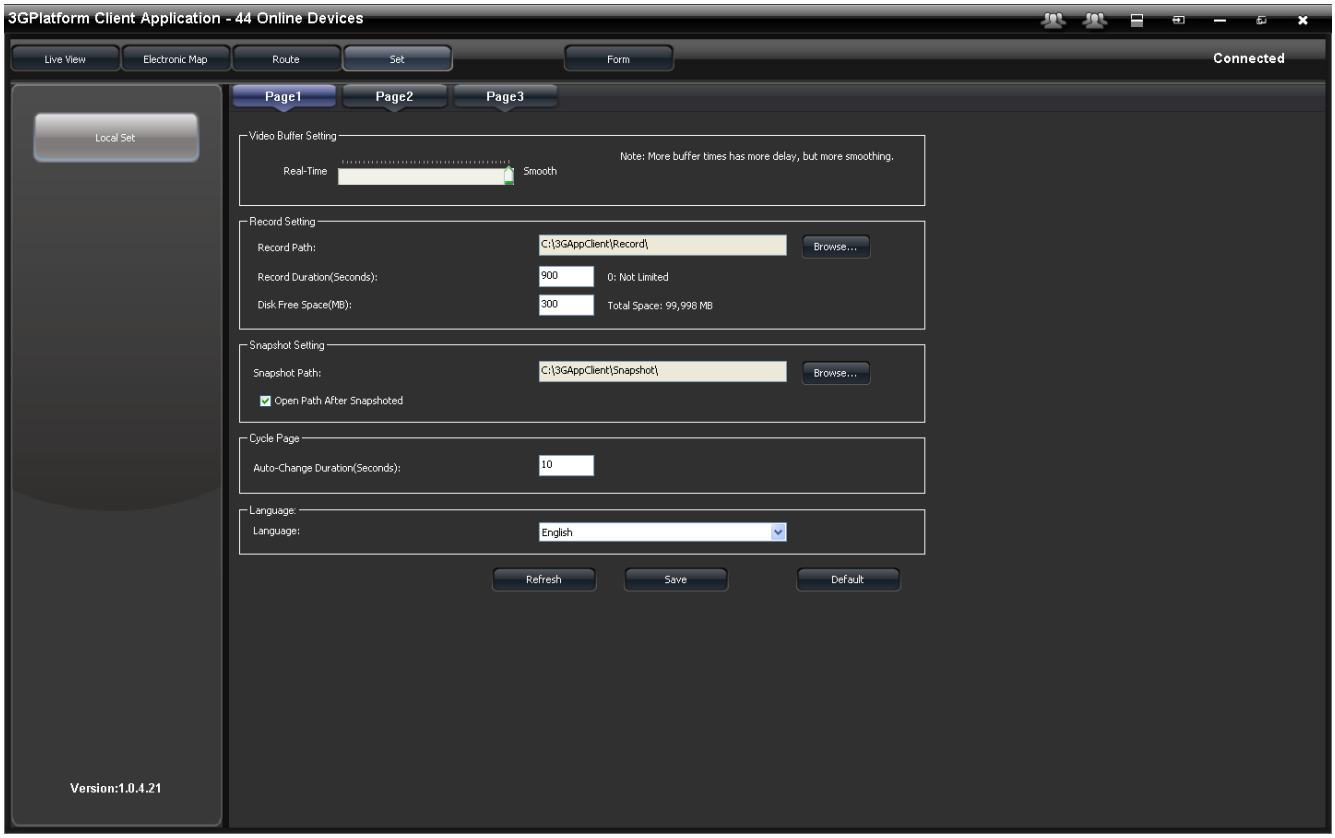
Routes of Vehicle can be known by tracks and shown on the device.



(4) Setting page

■ Setting page1

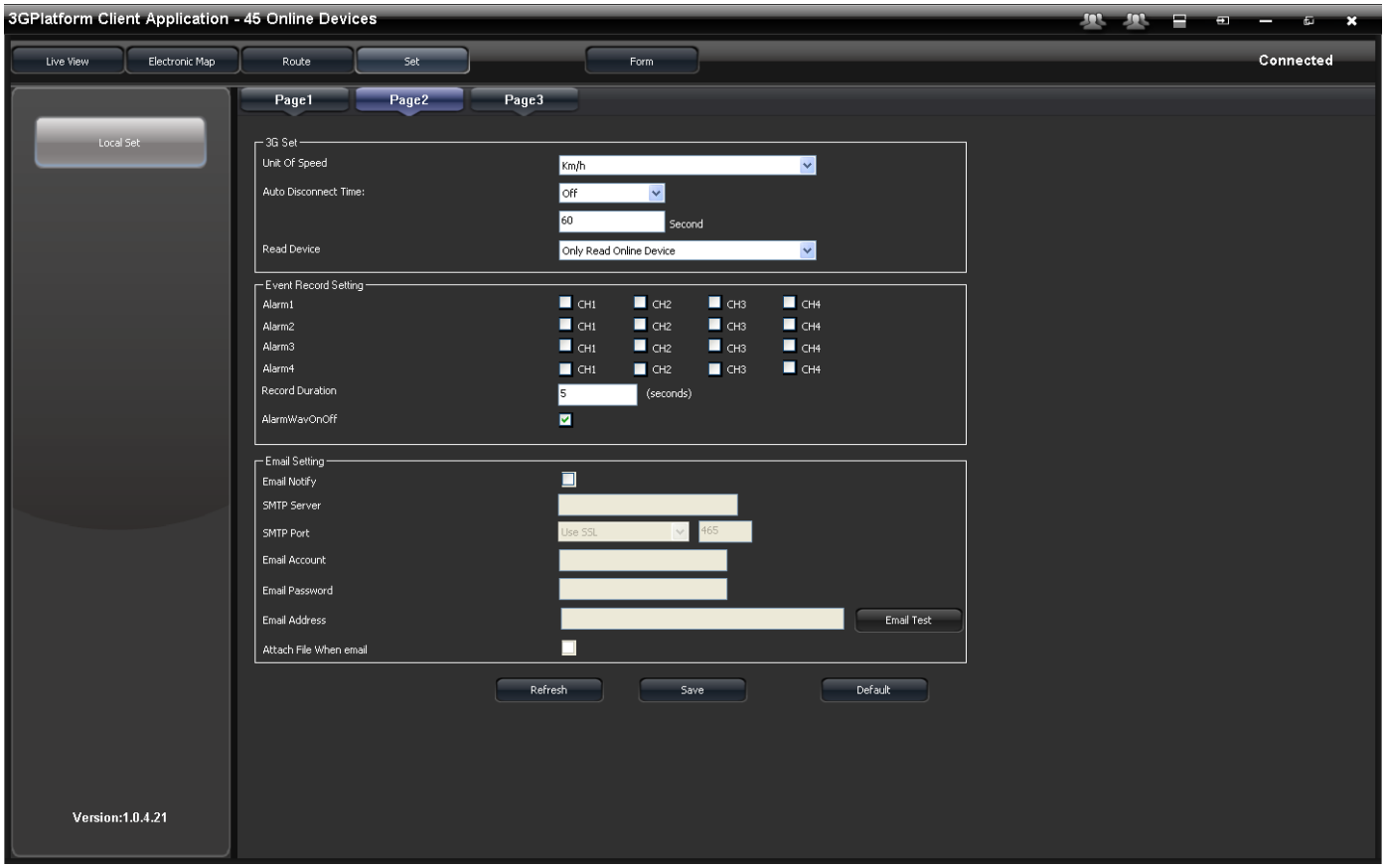
Capable setting the video playback fluency, video camera-related settings, auto-flip seconds and language-related settings.



Video Playing Setting	Real time→ Video smooth priority. Smooth→ Image smooth priority.
Recording Setting	Recording storage route, Recording time, HDD(SD/CIF) storage division related setting.
Photo setting	Photo storage route setting
Auto Flip	Timing of auto flip setting
Language	3G Client system language setting.

- Setting page2

  Capable setting event recording and mail sending function.



Alarm event record setting	Set video recording channel and duration after device trigger alarm
Mail setting	Send mail to mail box when trigger alarm

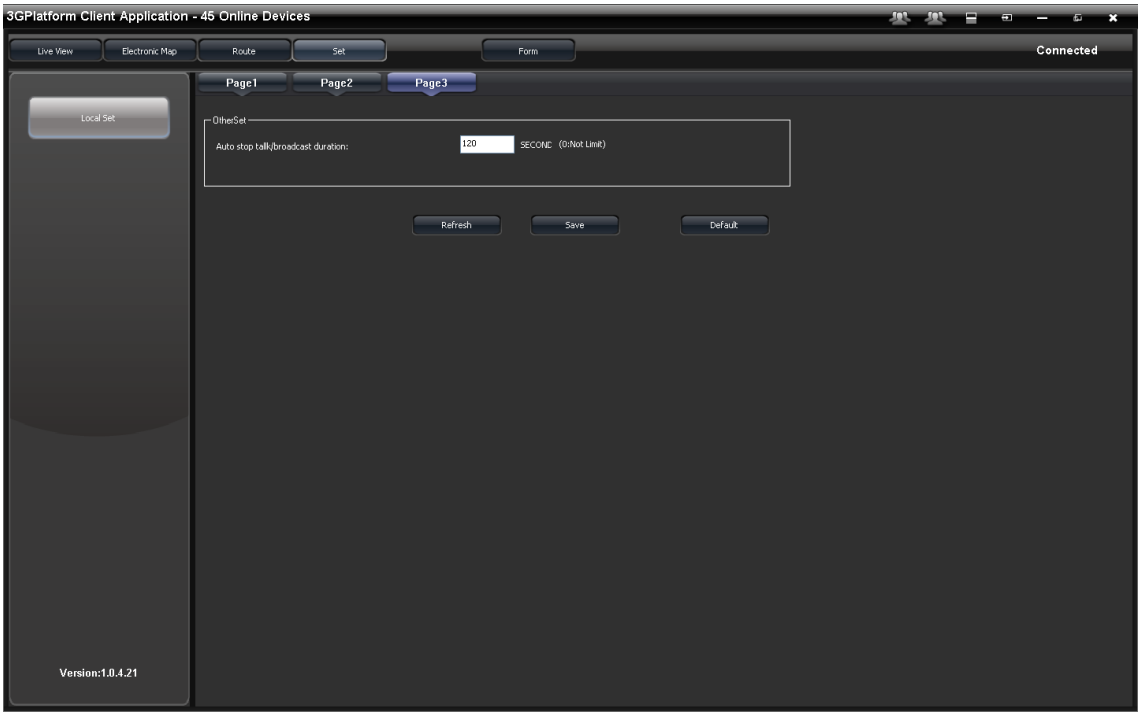
Mail sending options	
GPIO 0 Alarm	Alarm 1
GPIO 1 Alarm	Alarm 2
GPIO 2 Alarm	Alarm 3
GPIO 3 Alarm	Alarm 4
Disk Error	Hard Disk error
Over Speed	Over speed
Idle	Idle

			Video Loss	
			Trigger G sensor	
			Offline	

Common SMTP server list

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

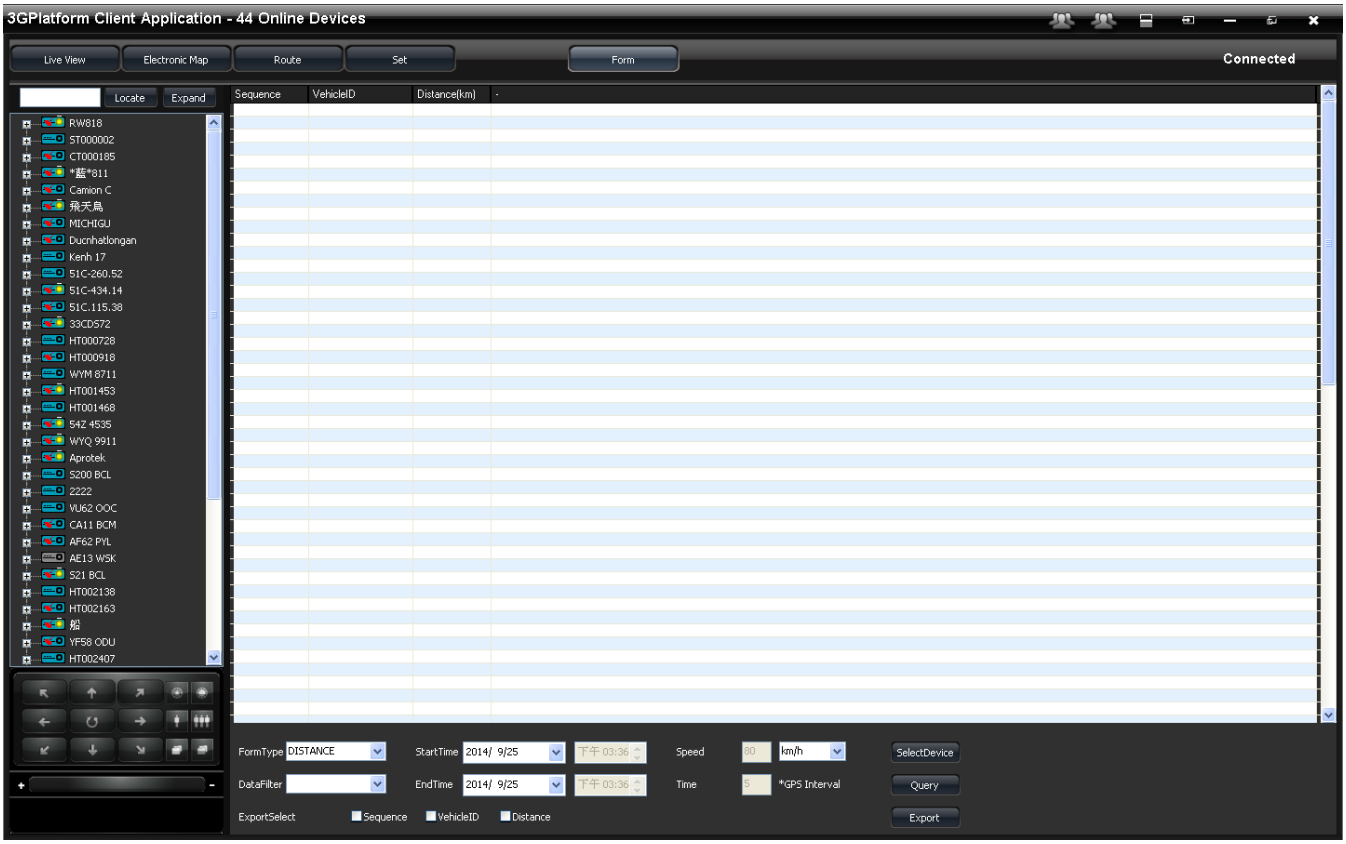
- Setting page 3
  For setting 3G function



3G Setting	Capable setting speed unit, disconnect image automatically, read device.
Other setting	Set to close the communication time

(5) Statement table

For search drive data



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