

Thank you for purchasing our product.  
Please read instructions before operation.  
Change without Notice

## **4 channel mobile DVR User Manual**



CE FC

# Safety Precautions



## CAUTION

### RISK OF ELECTRIC SHOCK



#### CAUTION :

To reduce the risk of electric shock, do not expose this apparatus to rain or moisture.

Only operate this apparatus from the type of power source indicated on the label.

The company shall not be liable for any damages arising out of any improper use,

Even if we have been advised of the possibility of such damages.

### Graphic Symbol Explanation



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user of the presence of insulated dangerous voltage within the product's enclosure that may be sufficient magnitude to constitute risk of electrical shock to persons.



This exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste. Contact your local dealer for procedures for recycling this equipment.

Attention: installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNITS NOT SPECIFICALLY DESIGNED FOR OUTDOOR USE TO RAIN OR MOISTURE.

## FCC STATEMENT

### WARNING

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received including interference that may cause undesired operation."

### WARNING

This 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 instructions, may cause harmful interference to radio communications. 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.

⚠ 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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## 1. Package Contents

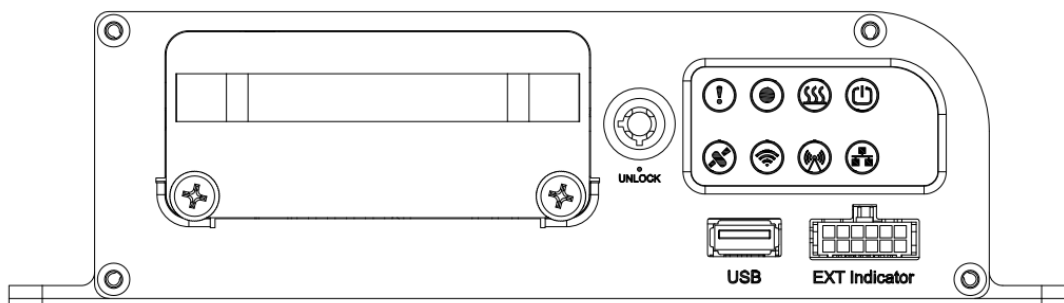
Description	Picture	Type A	TYPE B	TYPE C
Power cable (6 pin/6m) + 5A fuse X 2		V	V	V
I/O cable		V	V	-
3G antenna (Female)		V	-	-
G-Mouse (Male/5m)		V	V	V
Wifi antenna (Female)		V	-	-
Remote Controller + battery		V	V	V
Screw x 5		V	V	V
Nylon cable tie x 10		V	V	V

Hard disk rack locker key		<b>V</b>	<b>V</b>	<b>V</b>
Video cable (6 pin/mini- din type/ female-male/ 6m)		optional	optional	optional
Camera CC2 042 x 4		optional	optional	optional
USB Mouse		optional	optional	optional
External indicator + bracket + cable		optional	optional	optional

## 2. Product Overview

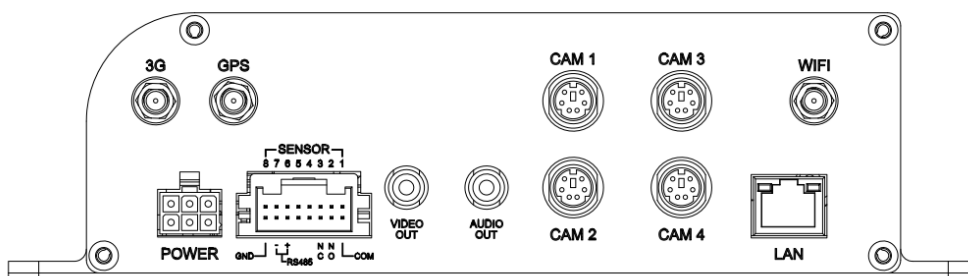
TYPE A/TYPE B/TYPE C

### Front Panel



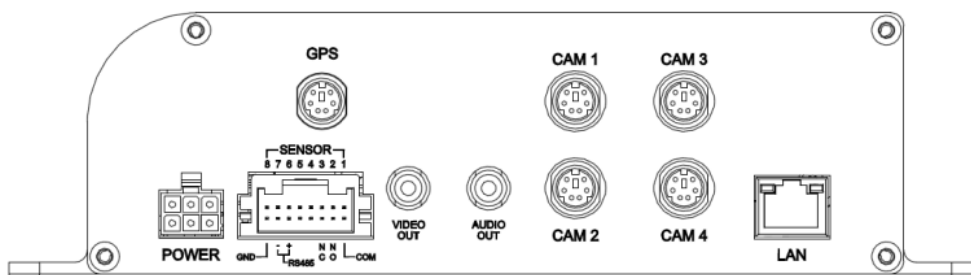
### TYPE A

#### Back Panel



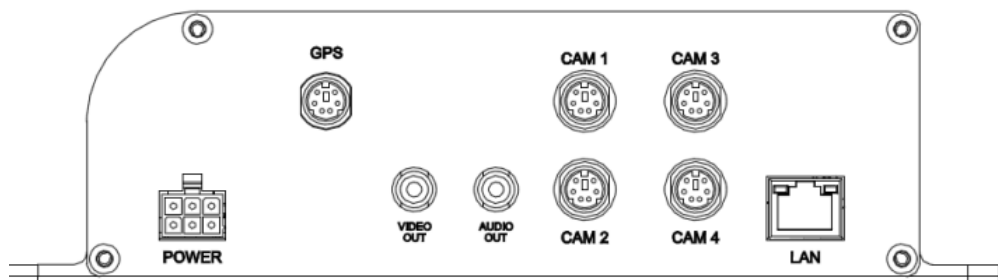
### TYPE B

#### Back Panel



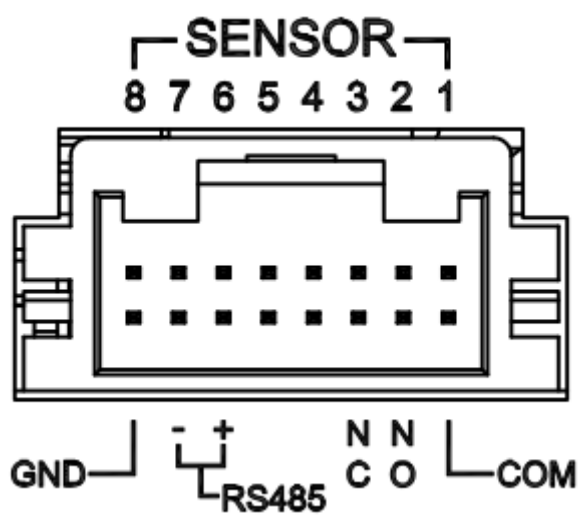
### TYPE C

#### Back Panel

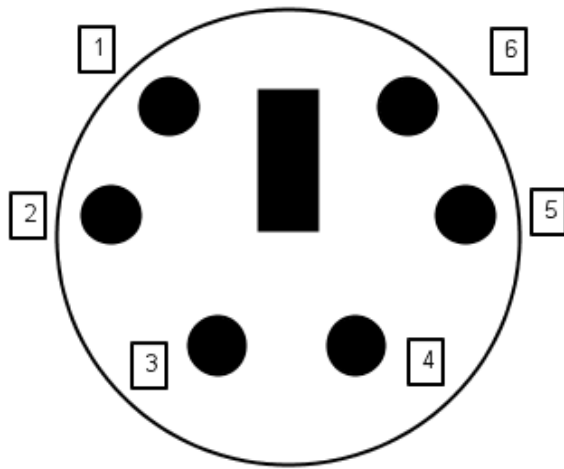
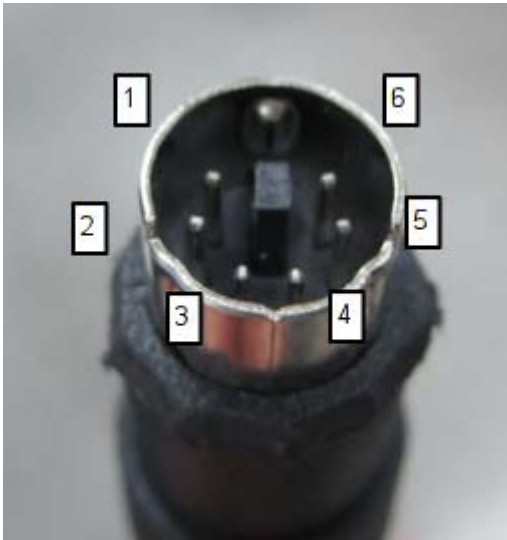


## Cable pin definition

I/O cable pin definition



## Video cable Mini din type



Pin number	Description
1	Power
2	Audio
3	Not used
4	Not used
5	Ground
6	Video

The function button of this IR remote controller as below

	<b>Power</b> : Turn on/off DVR
	<b>Info</b> : Show DVR information
	<b>Backup</b> : Backup the recorded data to other device
	<b>REC</b> : Panic record
	<b>Audio</b> : Audio ON / Mute
	<b>PTZ</b> : Control Pan/Tilt/Zoom camera.
	<b>Quad, 4CH</b> display mode
	◀  : Preview frame
	▶ : Play or Pause during playback
	▶ : Next frame
	◀◀ : Fast Reverse play,2x,4x,8x speed
	■ : Stop playback and go to Live mode
	▶▶ : Fast Forward play,2x,4x,8x speed
	<b>Direction (▲,▼,◀,▶)</b> Move cursor or control PTZ camera
	<b>ENTER</b> Select sub item in system setup mode
	<b>Lock</b> : lock the DVR system need a password to unlock it
	<b>SEARCH</b> :Search recorded video
	<b>MENU</b> : Go to 'MENU' mode to setup the system
	<b>ESC</b> : Exit the dialog window

### 3. Physical Connection

#### 3.1. Hard disk installation

Remove the mobile DVR hard cover and insert the locker key in the front of the device,

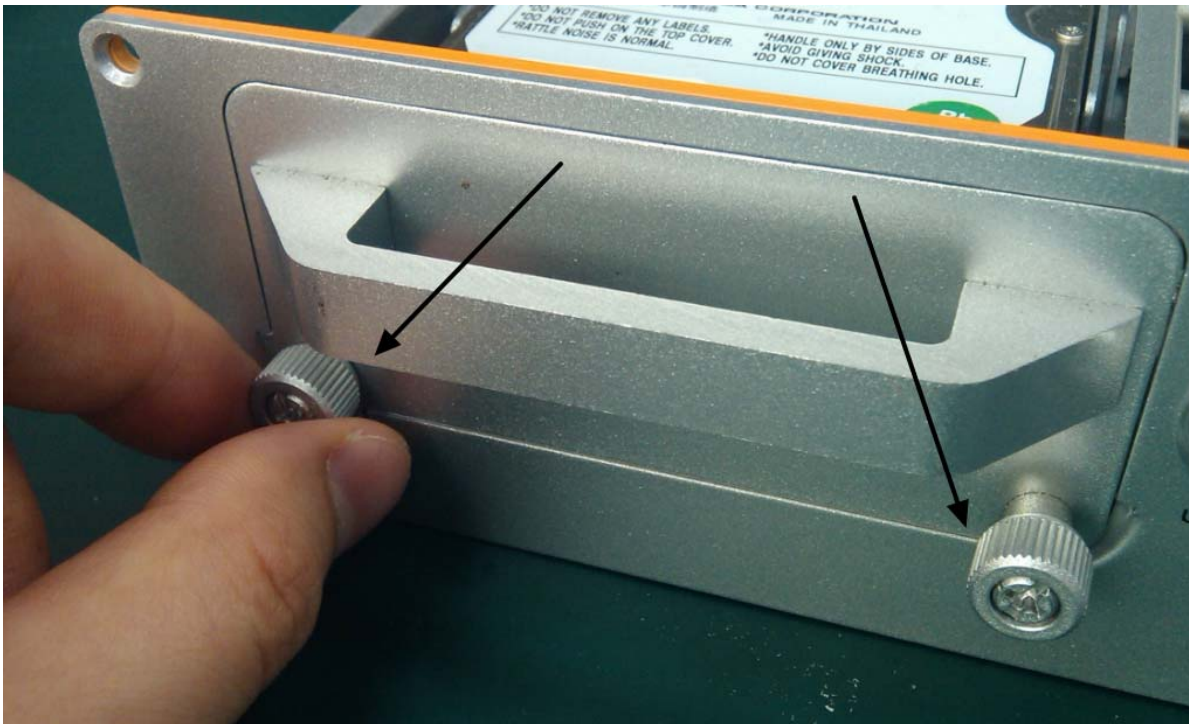
To unlock please turn counter clock wise 90° ,



To lock it please turns clock wise 90°

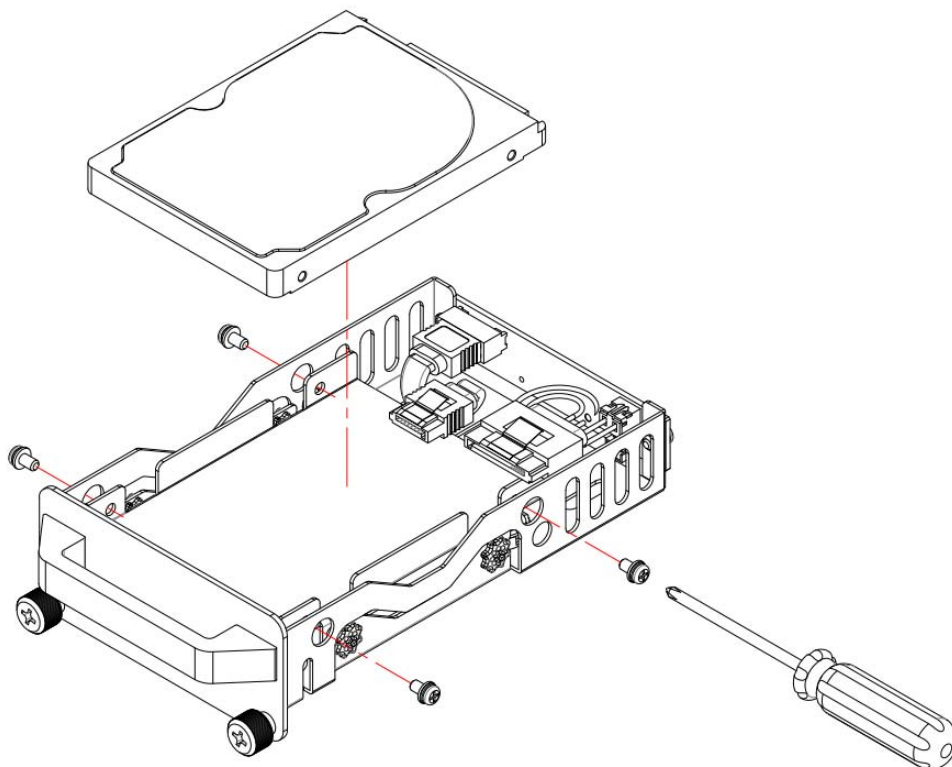


Then turn counter clock wise the two screw

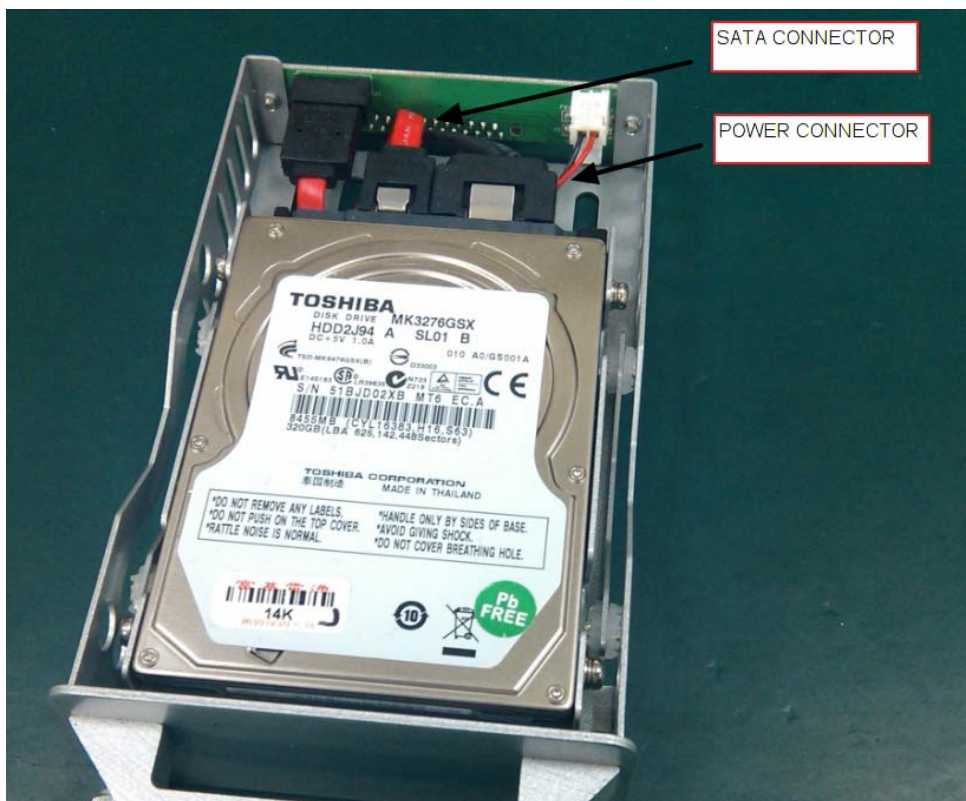


Pull the rack out in order to install your hard disk, note that only 2.5 inch hard disk can be installed

Screw the hard disk as shown on the below drawing



Then connect the SATA and power cable on the back of the hard disk it should look like this :



After you installed the hard disk put back the rack into the mobile DVR and tighten the two front screws and use the key to lock the rack. If the lock is not correctly done, the system won't be able to boot and the power led will flash

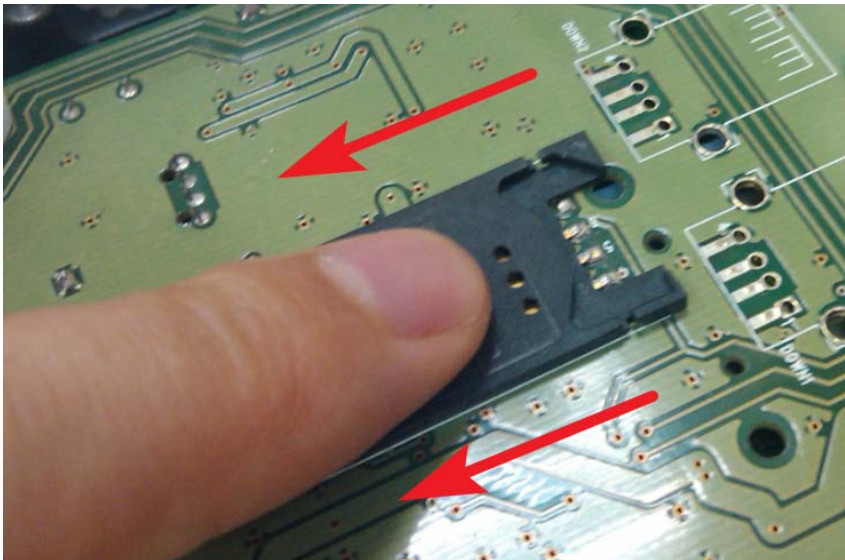
### 3.2. Sim card installation

When you purchase your sim card to your telecom provider, please make sure that it meets one of the following standards in order to work:

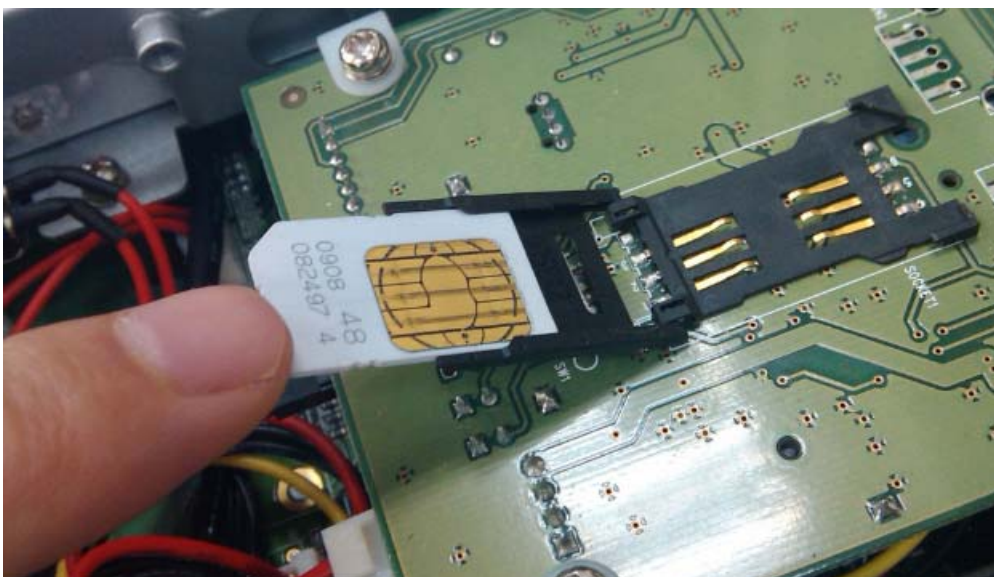
GSM 850 900 1800 1900

WCDMA 850 1900 2100

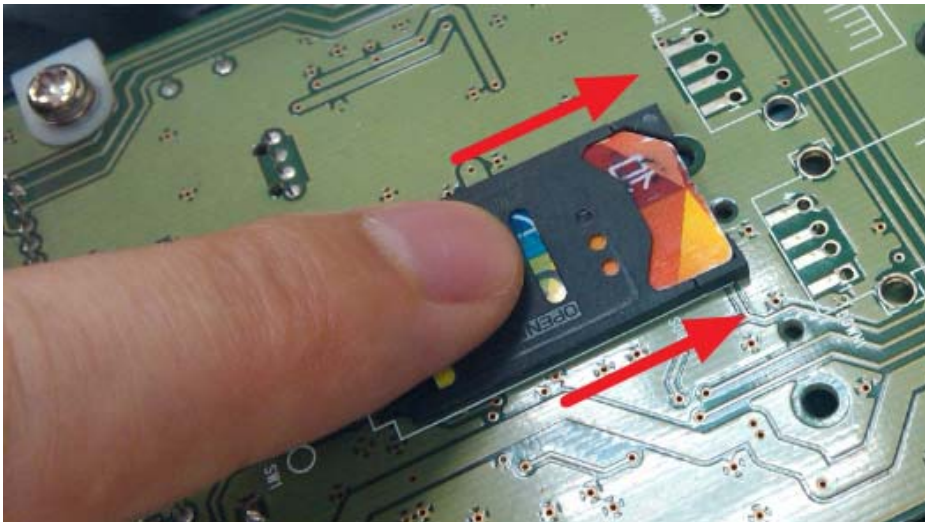
Pull the sim card socket



Insert the sim card with its gold contact facing down and the notched corner oriented to the upper right of the slot as shown



Then put back the lid to the slot and push to lock it

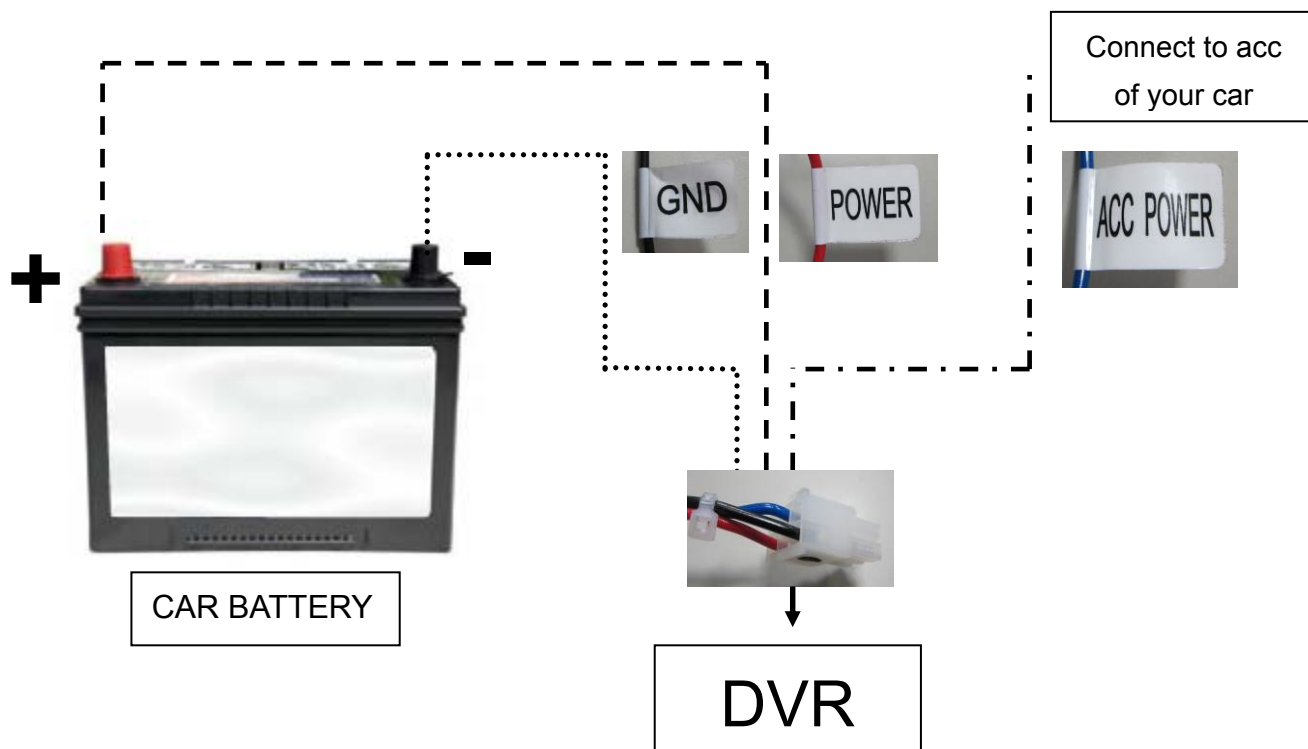


At final your mobile DVR should look like this



## Power Setup









Cable type	Meaning
.....	Ground -
-----	Power +
- . - . - . - .	ACC power



For your information ground and power + cable are protected with a 5A fuse.

Note that, do not pull the power connector when the DVR is recording to avoid the hard drive be damaged. First unplug all cameras, wait that yellow led turn off then unplug the power

Icon description table

Icon	Description	Color	Always ON	Always OFF	Flashing
	WARNING	Red	x	x	Vloss, no hdd, no recording, GPS capture failed System boot up failed
	RECORD	Yellow	x	No recording	Recording
	HEATER	Blue	x	x	Warming the system up to 0°C because environment temperature under 5° C
	POWER	Green	System ready	ACC turned off	ACC on system not yet ready
	GPS	Green	Localization success (more than 4 satellites included)	G-mouse not connected, or signal strength too weak	Localization in process, 1 to 3 satellites detected, gps data not available
	WIFI	Green	Connected to AP	Not connected	X
	WWAN	Green	Connected	Not connected	X
	NETWORK	Green	Connected	Not connected	X

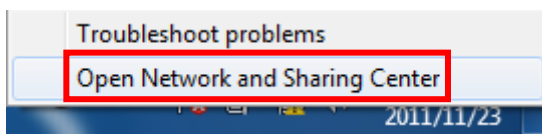
## 4. Setup

In order to access to the 4 channel mobile DVR with a notebook, you need to have RJ45 cross cable

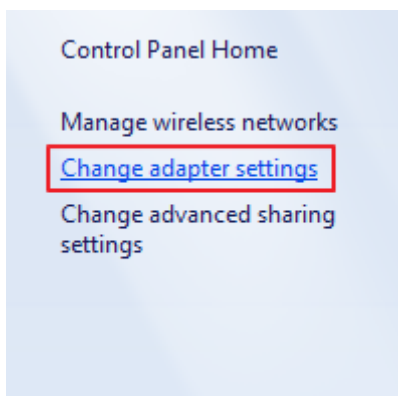
Link the notebook to the DVR with the LAN cable

Under windows 7

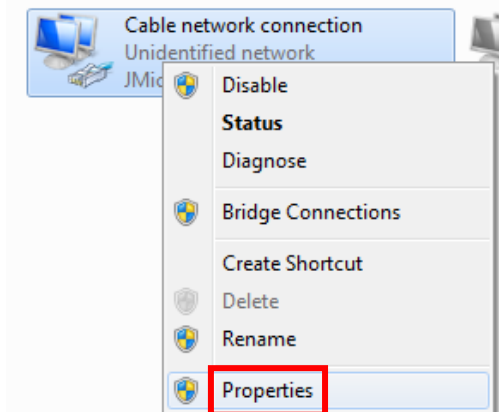
On the desktop bottom right, right click mouse on network icon then select **open network and sharing center**



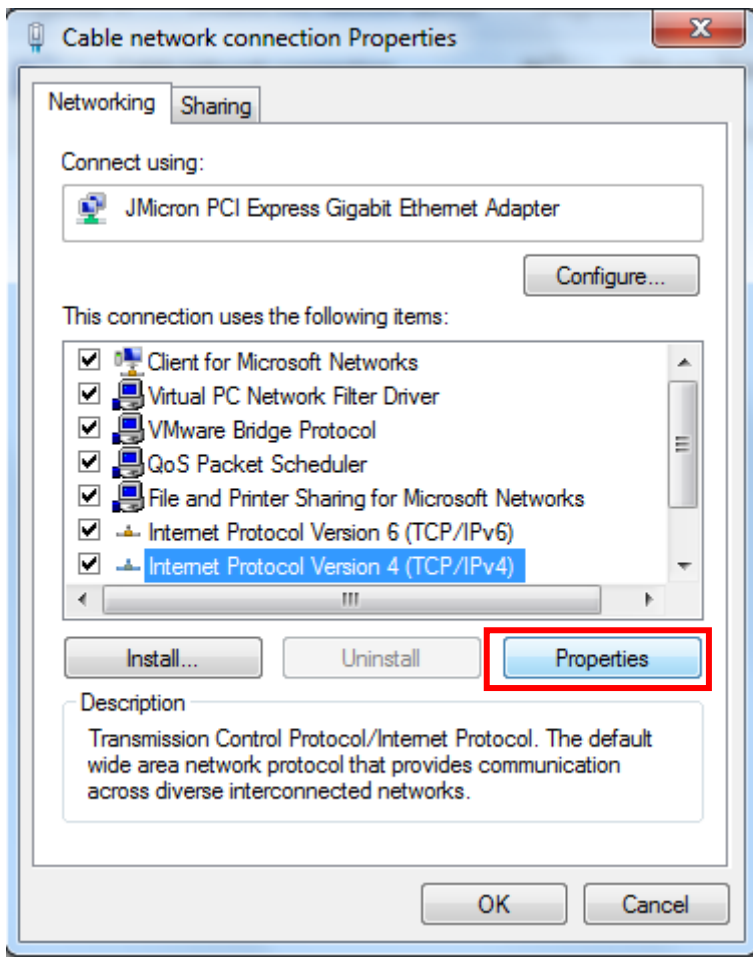
Then on the left select **Change adapter settings**



Choose your lan wired connection then mouse right click and select properties



Then click on Internet Protocol IPV4 and click properties



As the DVR default IP is **192.168.1.99**, assign an IP address to your notebook for example 192.168.1.xxx except 99

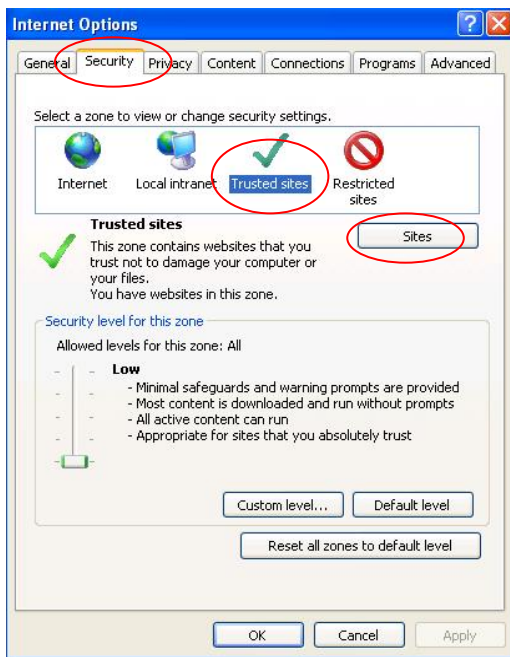
Our device supports **Internet Explorer 7, 8, 9 32 bits only**

The default IP address of the mobile DVR is **192.168.1.99**

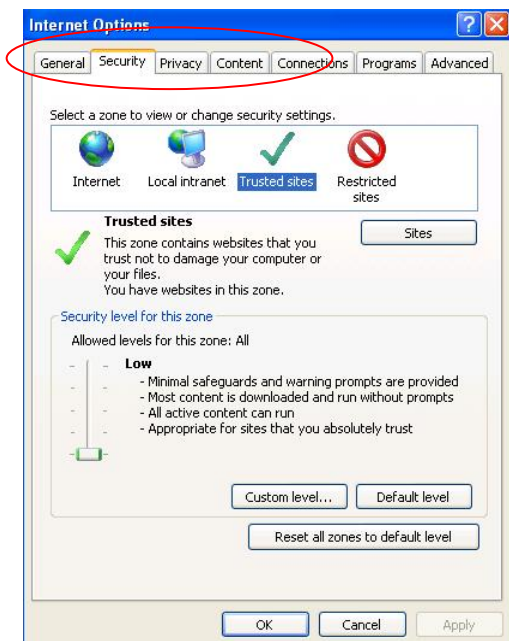
In order to install the active X you need to change your Internet Explorer settings

Open Internet Explorer, Click the Tools button, and then click Internet Options.

Click the Security tab, and then click a security zone Trusted sites. Click Sites.

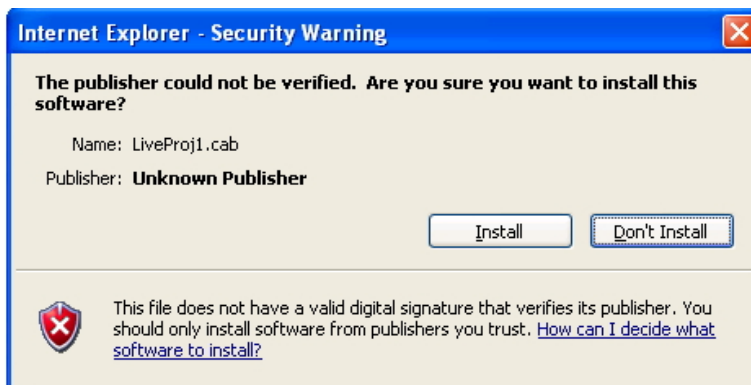


The DVR IP should be shown in the *Add this website to the zone* field. Please make sure that the below option 'require server verification' is disabled Click Add and close.



Then turn the Security level to Low and press apply  
Return to Internet Explorer main page

You will have a pop up message



Press Install

The icon must be in blue color then please login in the DVR

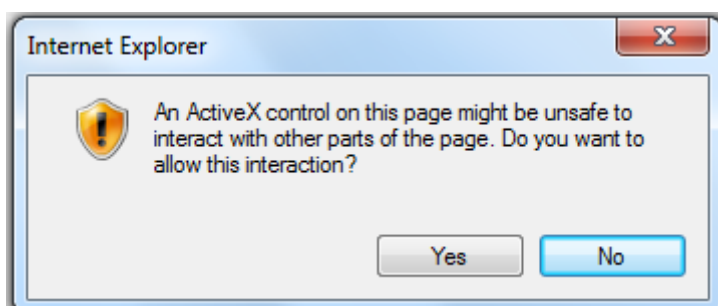
Default administrator username/password is "**admin**"/ "1111"

Default guest username/password is "**guest**"/ "1111"

If you don't operate the car dvr after a period of time (30 minutes) you will be automatically logged out, then you need to login again with your account and password

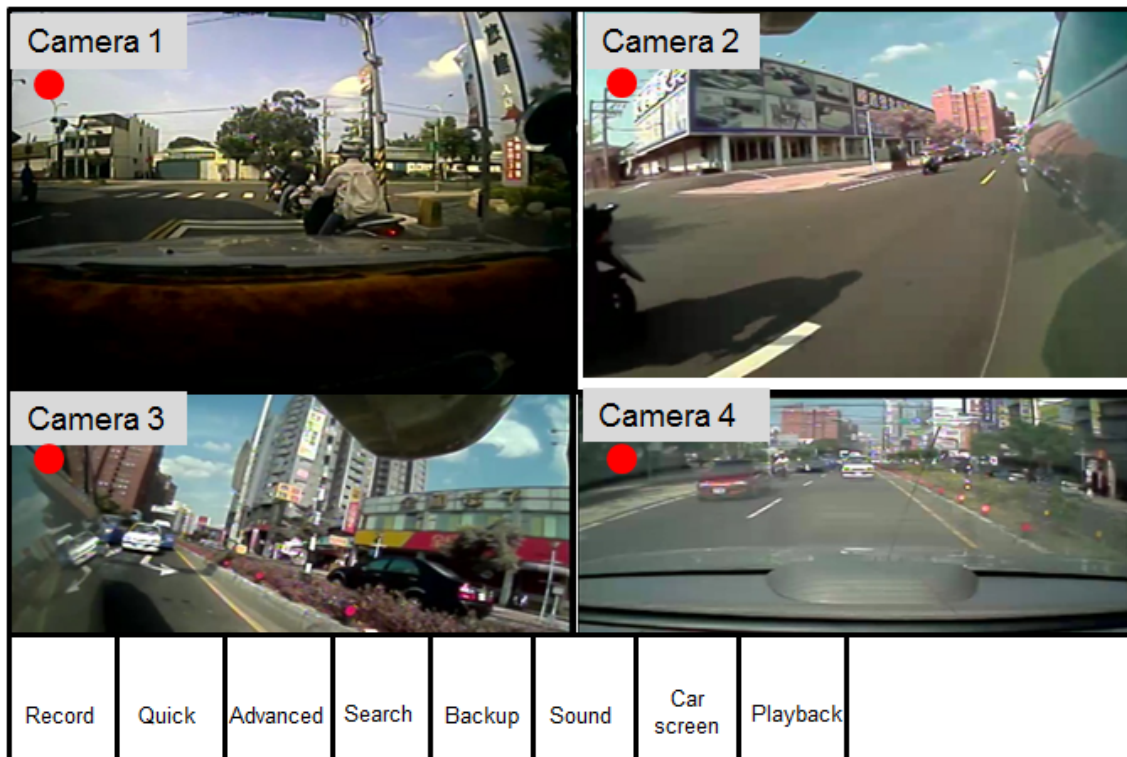


A pop up message will display, press Yes to continue







## 5. DVR operation via video out

### 5.1. Main Interface



## Recording information

Picture				
Recording mode	Sensor Rec	Motion Rec	Manual Rec	Normal Rec

Priority is Sensor Rec > Motion Rec > Manual Rec > Normal Rec

-  **Normal Rec turn on procedure**

Record Setup → Start Record = ON

-  **Manual Rec turn on procedure**

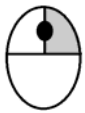
Menu bar → press manual record button

-  **Motion Rec turn on procedure**

Record Setup → Start Record = OFF ; Motion setup Enable = ON ; Record ch enabled ◦

-  **SensorRec turn on procedure**

Record Setup → Start Rec = OFF ; Sensor setup Enable = ON ; Record ch enabled ◦



Mouse right click →



Quick

5 predefined recording configurations for all 4 channels are available.



**Longtime:** For those who focus on long recording time



**Real time:** For those who focus on smooth video



**D1:** For those who want full D1 video resolution




**User Define 1:** you can change the setting for a profile



**User Define 2:**



**Record info:** display current record setting information

Once you select it you can validate it by press save  or change the setting. (Each change will affect the total record time according to your HDD size)

Ex: Minimum record time                      xxxx Hour

Setting available for User Define mode:

**Quality:** Lowest, Low, Normal, High, Highest.

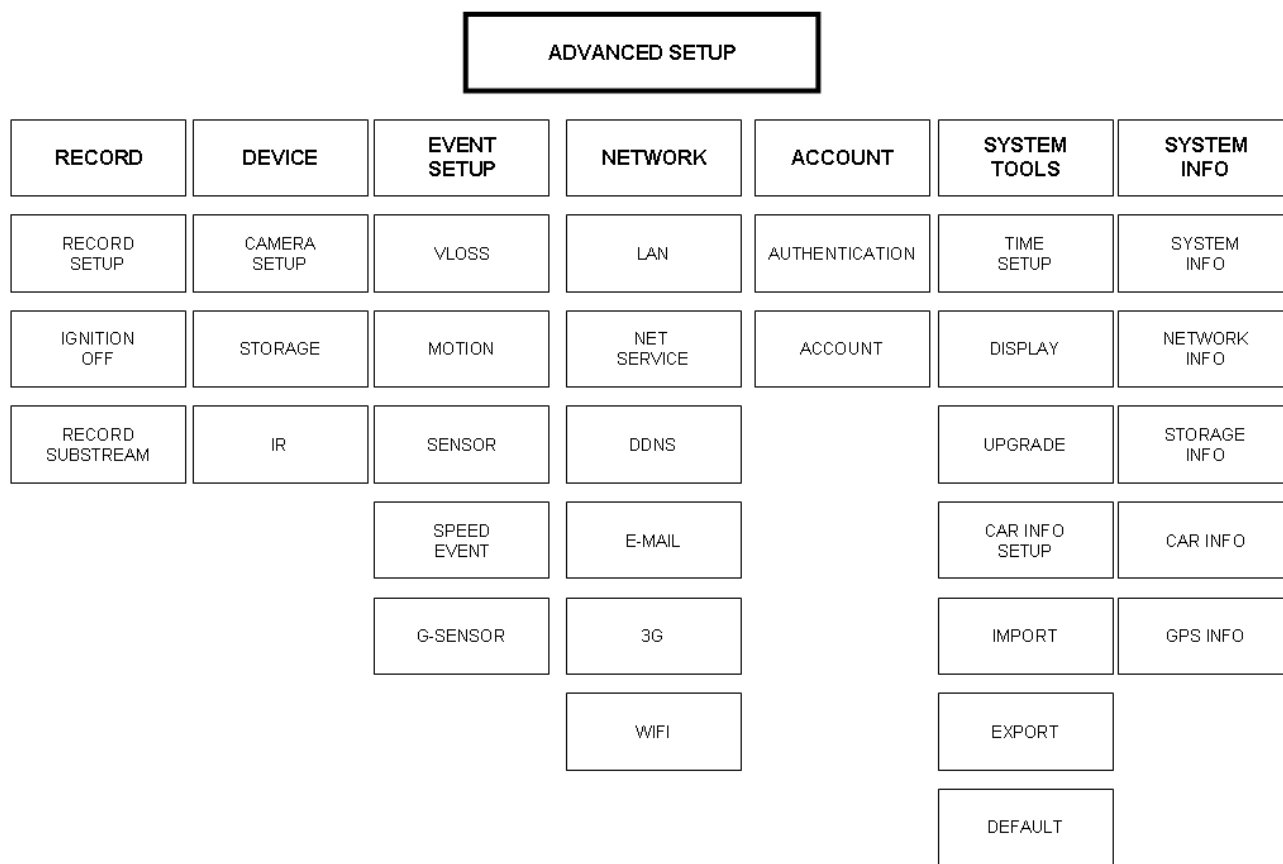
**Resolution:** 320x240, 720x240, 720x480 (NTSC)/ 320x288, 720x288, 720x576(PAL)

**Frame Rate:** 3 ~ 30 fps(NTSC)/ 3 ~ 25(PAL) fps for all channels. The sum of all channel 60 fps in D1 resolution.

**Audio:** Select to enable or disable audio for all channels

**Overwrite:** Once the hard disk is full, the DVR will clear 2GB data from the oldest for continuous recording without notice

## 5.2. Advanced



## 5.2.1.Record Setup

### 5.2.1.1. Record Setup

You can set up recording each channel individually

**Channel:** select the channel you want to set up 1 ~ 4

**Start Record:** enable or disable manual recording

**Frame Rate:** 3 ~ 30 fps

**Quality:** Lowest, Low, Normal, High, Highest.

**Resolution:** 320x240, 720x240, 720x480 or 320x288, 720x288, 720x576 for PAL system

**Prerecord:** select to enable or disable the pre alarm record. You can define pre alarm record time from 1 to 10 seconds

**Audio:** select to enable or disable audio

Post Record: select enable or disable the post alarm record, user can define post alarm record time from 1 to 30 seconds

**Data Retention:** define number of day of recorded data to keep in the hard disk, values vary from 0 to 30 days

**Overwrite:** 'On' means DVR will erase old data and record new data, 'OFF' means DVR will not overwriting the hard disk and stop recording when the disk is full

### 5.2.1.2. Ignition off

**Postpone time:** user can define after the ignition off how long it will keep recording. The values available are 30 sec, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 min

Normal, Motion, Sensor, Gsensor

### **5.2.1.3. Record substream**

**Framerate** : 1~ 7

**Quality** : Lowest, Low, Normal, High, Highest

**Keyframe**: 1 ~ 10 sec

## Device

### 5.2.1.4. Camera Setup

#### 5.2.1.4.1. PTZ SETUP

PTZ protocol : pelco p or pelco d

PTZ ID: 1 ~ 255

PTZ baud rate: 110, 300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200

#### 5.2.1.4.2. CAMERA SETUP

Select the camera you want to setup by clicking on the left of the camera number

**Camera Title:** you can rename the camera at your convenience maximum 20 characters

#### Color Setup

**Brightness** value 0 ~ 10

**Contrast** value 0 ~ 10

**Saturation** value 0 ~ 10

**Hue** value 0 ~ 10

**Mask:** You can define an area to cover in the camera for example bank atm, entrance access control keypad,

### 5.2.1.5. Storage

This section provides information regarding the storage device installed in your combo DVR such as brand, series number, size and enables user to format it

#### FORMAT PROCEDURE

Press format with the arrow

A message will display

**Are you sure to format?'**

Press Yes to start hard disk format once finished another message will display

**Format Success!!**

Press ok to return

### 5.2.1.6. IR setting

In order to control different DVR with one unique controller, or to avoid two DVR behave at the same time, it's necessary to setup id

**IR ID** values available: 1-1 → 1-16, 2-1 → 2-16, 3-1 → 3-16, 4-1 → 4-16

## 5.2.2. Event Setup



Mouse right click →



Advanced →



Event Setup



Please select the camera to setup by pressing the up or down arrow

Three events can be setup: VIDEO LOSS, MOTION and SENSOR

### 5.2.2.1. Video Loss

**Enable:** ON/OFF

**Camera:** select the canal to setup or all camera

**Dwell time:** define the length of the buzzer after each video loss 0 ~ 10 seconds

**Email:** can send an email to predefined address in case of the event

**Alarm out:** in case of video loss, DVR will send a signal via alarm out like a buzzer or flashing red light



Press save

to validate your choice or



to exit

### 5.2.2.2. Motion

**Camera:** select the canal to setup 1 → 4 or all camera

**Enable:** ON/OFF

**Dwell time:** define the length of the buzzer after each motion detection 0 ~ 9 seconds



**Email:** can send an email to predefined address in case of the event

**Alarm out:** in case of motion detection, DVR will send a signal via alarm out like a buzzer or flashing red light

**Event Record:** ON motion record enable, OFF motion record disable

**Event popup:** ON/OFF

**Sensitivity:** 1 (lowest sensitivity) ~ 5 (highest sensitivity)

Press save  to validate your choice or  to exit



#### Area Setup

You can use the mouse to select the area, then double right click on the mouse to display the options.

**SELECT ALL:** all screens will be under detection

**CLEAN ALL:** all screen will not be under detection

**SAVE:** validate your selection

**EXIT:** to leave the area setup menu

Transparent blocks represent the area that is not being detected while the green blocks are the area under detection.

### 5.2.2.3. Sensor (for TYPE A and TYPE B)

**Sensor:** 1 to 8

**Camera:** select the canal to setup 1 → 4 or all camera

**Enable:** setup the status of the sensor OFF / NC/ NO

**Dwell time:** define the length of the buzzer after each sensor trigger 0 ~ 9 seconds

**Alarm out:** in case of sensor trigger, DVR will send a signal via alarm out like a buzzer or flashing red light

**Event Record:** ON sensor trigger record enabled, OFF sensor trigger record disabled

**Event popup:** ON/OFF

### 5.2.2.4. Speed Event

**Enable:** ON/OFF

**Unit:** you can choose between KM/H or MPH

**Type:** High speed / Low speed

**Enable:** ON/OFF

**Threshold:** 1 ~ 300

**Dwell time:** define the length of the buzzer after each motion detection 0 ~ 9 seconds

**Email:** can send an email to predefined address in case of the event

**Alarm out:** in case of motion detection, DVR will send a signal via alarm out like a buzzer or flashing red light

### 5.2.2.5. G Sensor

**Enable:** ON/OFF

**Threshold** : OFF ~ 5g

**G value Max variation** : OFF ~ 5g

**Dwell time**: define the length of the buzzer after each motion detection 0 ~ 9 seconds

**Email**: can send an email to predefined address in case of the event

**Alarm out**: in case of motion detection, DVR will send a signal via alarm out like a buzzer or flashing red light

**Event Record**: choose the camera to record

## 5.2.3. Network Setup

### 5.2.3.1. Lan

**3G Quality** : User can define quality of video transmitted over 3G network (Lowest, Low, Normal, High, Highest.)

**Host Setting**: user can choose between STATIC IP, DHCP and OFF status

For static IP you need to key manually the IP, GATEWAY and NETMASK.

For DHCP, the DVR will retrieve the information from the network

### 5.2.3.2. Net Service

**Center IP**: CMS server IP address.

**Center Port**: default is 8787 but can be changed according to customer need

**Http Port**: default is 80 but can be changed according to customer need

**Streaming Port**: default is 554 but can be changed according to customer need

**Messenger Port**: default is 1999 but can be changed according to customer need

**DNS**: if the user specifies a dns, it will help the cms to find more fastly the ip of the dvr using 3g connection

**Warning**: make sure that these port are open in your router if you use a lan network

### 5.2.3.3. DDNS

**Enable DDNS:** ON/OFF

**Host Name:** your ddns host name.

**Service:** now support DynDNS

**Account:** ddns service account.

**Password:** ddns service password.

### 5.2.3.4. E-Mail

**SMTP Server:** E-mail service mail server.

**Port:** E-mail service port.

**SSL:** ON/OFF

**Sender:** sender mail

**Recipient:** recipient mail

**Enable SMTP Auth.(authentication):** some mail server need user authentication.

**Account:** mail service account.

**Password:** mail service password.

**E-mail test:** Due to the authorization problem, some mail server will not work properly. Please click the "E-mail test " button to test your mail server. If you don't receive the email, please contact with your MIS department or change another mail server and try again.

#### **5.2.3.5. 3G Network (only for TYPE A)**

**Enable:** ON/OFF

**Access Point Name (APN):** default is Internet.

**Access Number:** default is \*99#

#### **5.2.3.6. WIFI (only for TYPE A)**

**Enable:** ON/OFF

**SSID:** input your WIFI AP name.

**Key:** input your WIFI AP connect key.

## 5.2.4. Account

Enable or disable user authentication when DVR boot up

User can modify password and add information such as Mobile phone or Email

User can setup administrator and guest password

## 5.2.5. System tools

### 5.2.5.1. Time Setup

**Date:** Year- Month-Day

**Time:** Hour-Minute-Second

**Display format available:** Month/Day/Year, Day/Month/Year, Year/Month/Day

**Time format:** 12 hour or 24 hour

**Daylight Saving:** enable or disable, after user selects the time zone, if daylight saving is enable, the DVR will automatically adjust the time

### **5.2.5.2. Display**

**Select language**

**CVBS Height adjustment: 1 ~ 9**

**CVBS Width adjustment: 1 ~ 9**

You can enable or disable the following function by click or unclick them

- System time
- Channel title
- Recording
- Motion
- Alarm
- Network

### 5.2.5.3. Upgrade

After you received the new firmware which name is ***image.bin***, just copy it to a usb solid disk formatted in FAT32, insert in the usb port and click upgrade you will this following message

Message	Description
<i>waiting</i>	Starts the upgrade process
<i>Are you sure to upgrade ?</i>	The usb key is being initialized, the yes/no will appear after few second
<i>search file</i>	If press yes it will look for the file in the usb key
<i>upgrade system please wait</i>	
<i>1/4 (3/3)</i>	
<i>Upgrade complete. the system will reboot</i>	Press ok to reboot the device

### 5.2.5.4. Car Info Setup

User can add car info such as: device number, company name, driver name, car number

### 5.2.5.5. Import setting

User can import or restore setting

Message	Description
<i>waiting</i>	Starts the process
<i>Are you sure to import config</i>	The usb key is being initialized, the yes/no will appear after few second
<i>Import complete! The system will reboot!</i>	Press ok to reboot the device

### 5.2.5.6. Export Setting

User can export or backup setting

Message	Description
<i>waiting</i>	Starts the process
<i>Are you sure to export config ?</i>	The usb key is being initialized, the yes/no will appear after few second
<i>Export finish !</i>	Press ok to leave the export mode

Notice: The export file name is *Config*, you can rename it for archive purpose but you must rename it as *Config* if you want to use it to restore setting in your combo DVR

### 5.2.5.7. Default

This enables user to reset setting to default.

Message	Description
<i>waiting</i>	Starts the process
<i>Are you sure to reset default?</i>	Yes to validate, No to cancel
<i>Reset Default Finish!</i>	Press ok to reboot the system

## **5.2.6. System Info**

### **5.2.6.1. System info :**

Version of the firmware, Mcu version, sensor status

### **5.2.6.2. Network Info:**

DVR's IP address, Mac address, netmask, gateway

### **5.2.6.3. Storage info:**

status mention if the hard disk is correctly working, its model name and storage utilization

### **5.2.6.4. Car info:**

Device number, Company name, Driver name, Car Number

### **5.2.6.5. GPS info:**

Time, Longitude, Latitude, Speed, Height, Direction

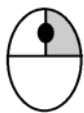
### **5.2.6.6. 3G info:**

Enable, signal, IP address, Net mask, Gateway

### **5.2.6.7. Wifi info:**

Enable, ssid, IP address, Net mask, Mac address, Gateway

## 5.3. Search



Mouse right click →



Search

### Backup

User can make a backup of specific period on any usb device such usb key, external usb hdd

### Time Search

Key in specific time to playback the data, select the camera and click **go search**

### Log List

Select the channel

Define start and end time.

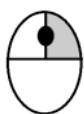
Type available: system, motion, sensor, video loss, network remote access

And click on Search it will display the results, and then select the event to play it back

### Net Service

User can search received message from the central by date

## 5.4. Backup



Mouse right click →





Backup

Insert your usb solid disk and

Select the channel you want to backup, define the time period and after the osd display your usb key free space memory, press **GO BACKUP !**

## 5.5. Sound

You can adjust the sound volume with  or  from 1 to 15

Select the channel you want to listen by selecting the channel or press mute  to disable sound

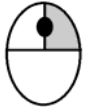
## 5.6. Display

User can choose between quad display or car display

## 5.7. PTZ

User can control the ptz during live display

## 5.8. Playback



Mouse right click →



Playback

User can playback last recorded file



Fast Rewind



Pause



Play



Fast Forward



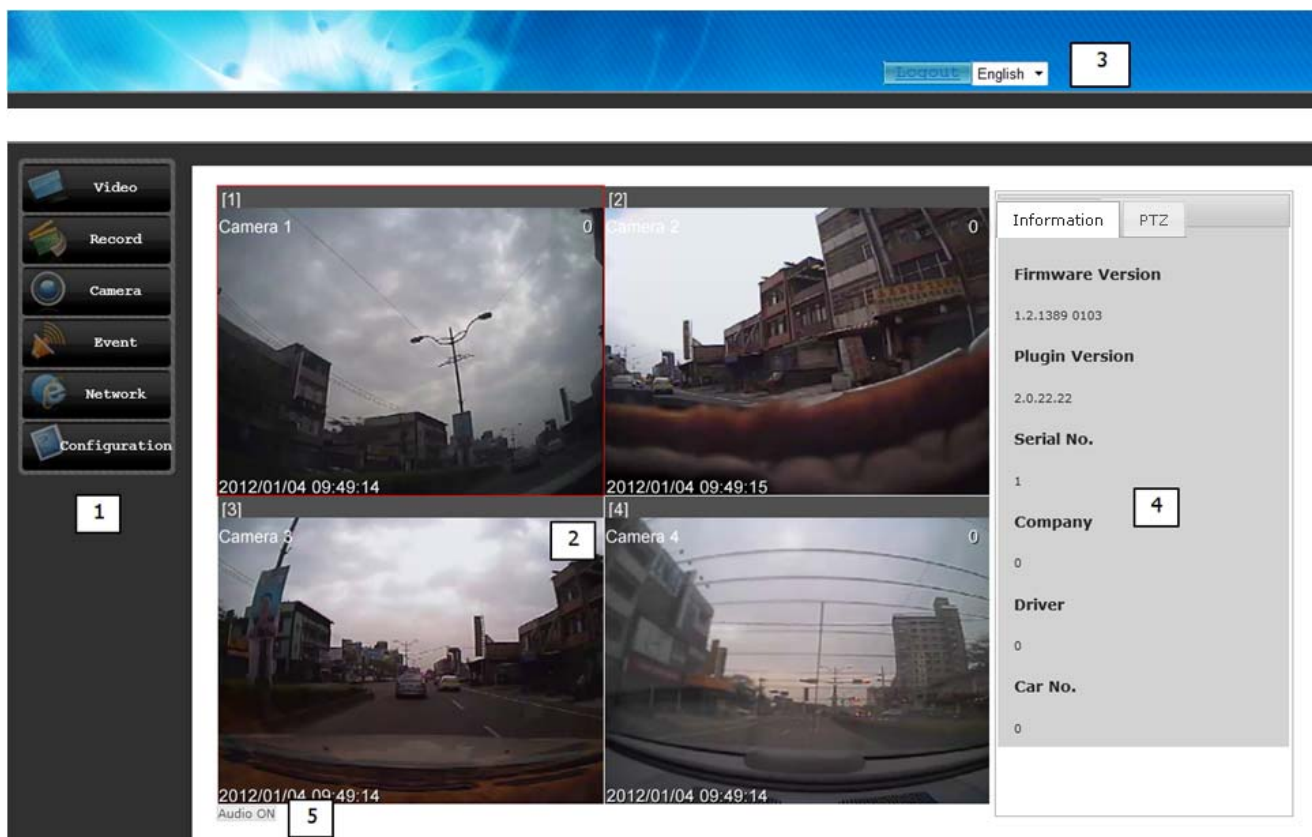
Slow forward: it will forward frame by frame



Stop and return to main display

## 6. DVR operation via browser

Live preview



After you log in, you will access to live picture , there are 5 areas:

**1** is all the function of the DVR which will be explain later in this guide

**2** is the main display of the camera, to see a camera in full screen, just double click on it. To return to quad mode, please go to VIDEO/LIVE

**3** is the log out function and language setting, you can switch between English and Chinese

**4** is the information regarding the system (firmware, plugin) and regarding the car (serial number, company, driver name, licence plate number), and also control PTZ

**5** is audio on/off

## OSD operation

### 6.1. Video

**Live** *please check page 11 for more information*

#### Playback

After you make sure that you have enabled video recording, you can playback a video.  
Select the date on the calendar




Then select the time you want to watch

time

11	:	50	:	36
----	---	----	---	----

Check on below line if it is the period you need

2011/12/23 11:50:36

If data are available a  will appear, then press PLAYBACK,

time

15 : 44 : 1

2011/12/27 15:44:01

End time

15 : 46 : 1

2011/12/27 15:46:01

Start Backup Stop Backup

if you press BACKUP then you have to specify the period then press START BACKUP  
you will have to specify the folder destination

The backup process in % will appear in each channel



When backup is finished, a confirmation message will display.

Then press Live display to return to normal operation

## 6.2. Record

▼ Record Configuration

Channel

1

2

3

4

ALL

Record

OFF

ON

Frames Per Second

30

Quality

Low

Normal

Highest

Resolution

CIF

HalfD1

D1

Audio

OFF

ON

► General Configuration

Apply

User can choose to record one specific channel or all channel.

User can enable or disable record.

Total framerate available for CIF and half D1 is 120fps and for D1 60FPS

If you have 4 cameras connected you can record at D1 resolution with 15 FPS per channel

If you have 2 cameras connected you can record at D1 resolution real time 30 FPS per channel

Quality level: you can select between low, normal and highest quality

Enable or disable audio recording on all channel

Record Configuration

General Configuration

Pre-record (sec)

10

Post-record (sec)

30

Data Retention (days)

0

Overwrite

OFF

ON

Apply

## General configuration

Prerecord 0~10 sec

Post record 0~30 sec

Data Retention days 0~30 days

Enable or disable overwriting on hard disk

## Ignition OFF

Postpone Time

OFF

30SEC

5MIN

10MIN

15MIN

20MIN

25MIN

30MIN

35MIN

40MIN

45MIN

50MIN

55MIN

60MIN

Record Mode

☒ Normal

☐ Motion

☐ Sensor

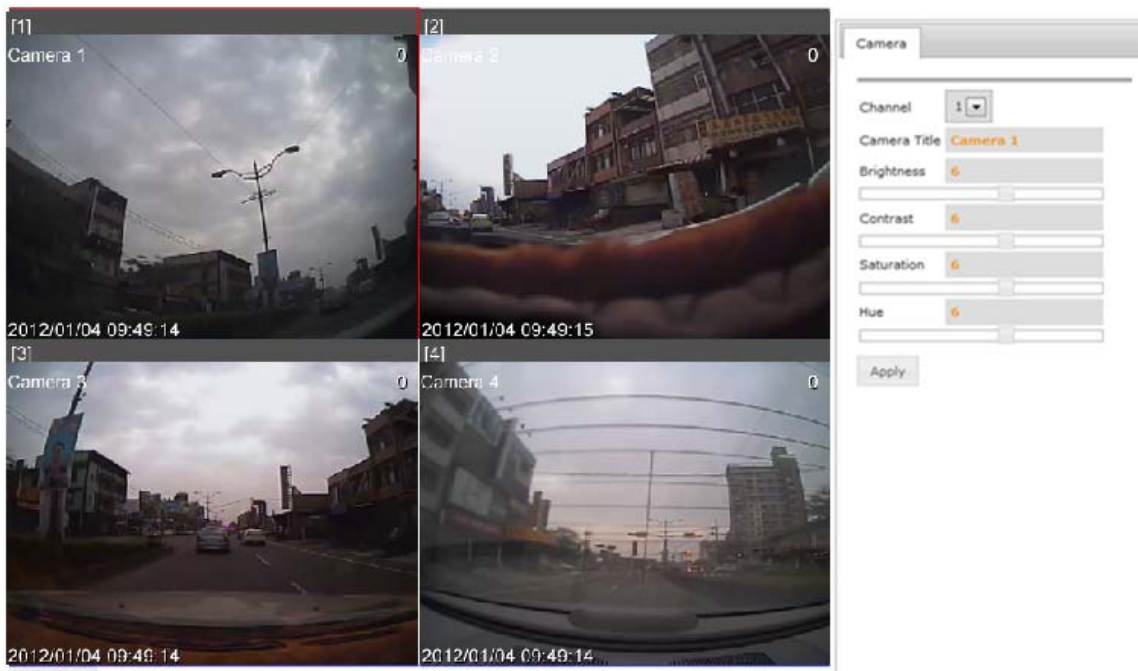
☐ G-Sensor

Apply

**Ignition off:** After you switch off the power, the user can setup ignition off time

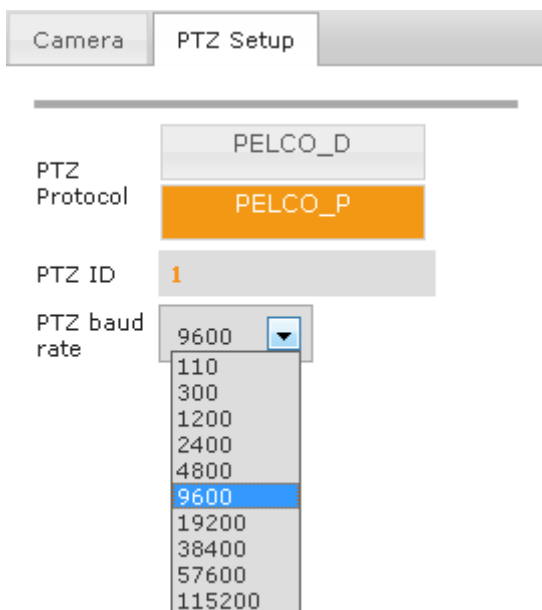
**Record mode:** you can select normal, motion, sensor and/or G-sensor record mode during after ignition off period. If the ignition off period is ended and that suddenly the car is subject to a move, the G sensor will be trigger and will activate the record.

### 6.3. Camera setting



User can change camera title

User can adjust camera brightness, contrast, saturation and Hue. Press apply to validate your choice



PTZ setup: in order to control the PTZ, user has to setup correct protocol, ID and baud rate

## 6.4. Event

### 6.4.1. VLOSS

#### VLoss

---

Enable	<input type="button" value="OFF"/>	<input checked="" type="button" value="ON"/>			
Channel	<input checked="" type="button" value="CH:1"/>	<input type="button" value="CH:2"/>	<input type="button" value="CH:3"/>	<input type="button" value="CH:4"/>	<input type="button" value="ALL"/>
Dwell	<input type="text" value="5"/>				
E-mail	<input checked="" type="button" value="OFF"/>	<input type="button" value="ON"/>			
Alarm Out	<input type="text" value="1"/>				

---

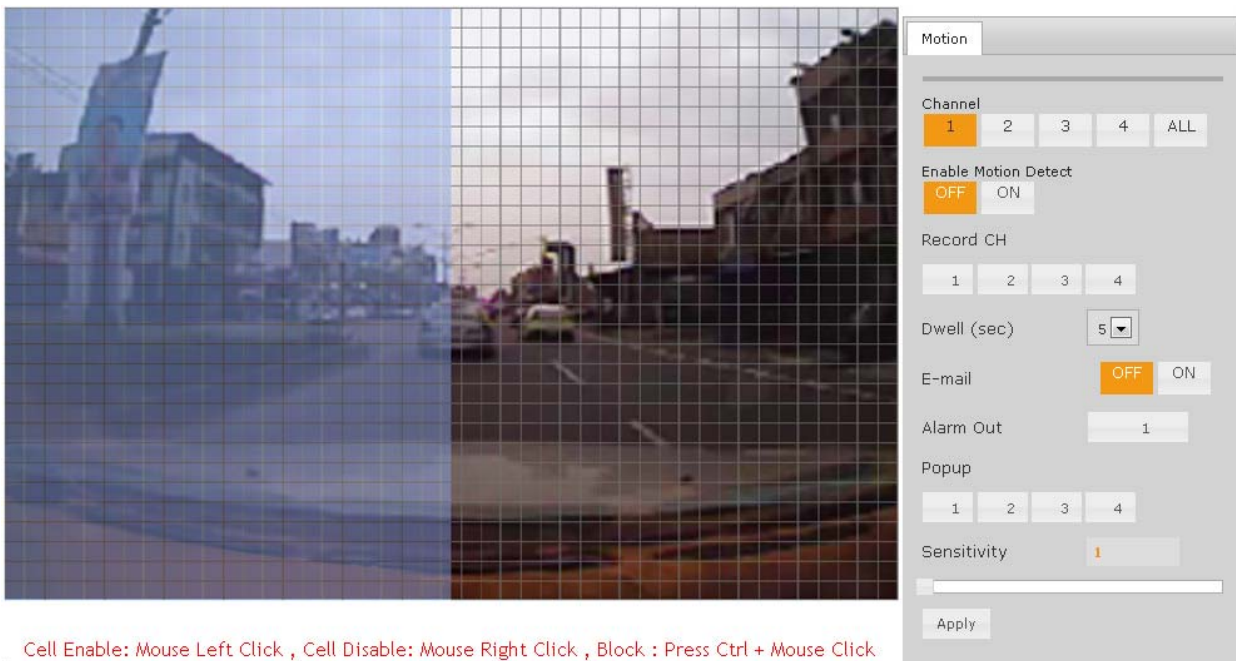
Select the channel you want to display video loss message.

Dwell time: 0 to 9 seconds

Email: disable or enable

Alarm out: if user wants send alarm out when video loss, click on the 1 so it has a click

### 6.4.2. Motion detection



Cell Enable: Mouse Left Click , Cell Disable: Mouse Right Click , Block : Press Ctrl + Mouse Click

**Motion**

Channel

Enable Motion Detect

Record CH

Dwell (sec)

E-mail

Alarm Out

Popup

Sensitivity

User can setup motion detection one by one or all at the same time

To select a cell: Mouse Left Click, / To deselect a cell: Mouse Right Click,  
 To select or deselect a block: Press Ctrl + Mouse Click  
 Blue area means selected /No color area means not selected  
 User can setup which camera to record in case of motion detection  
 Dwell time: 0 to 9 seconds  
 Email: disable or enable  
 Alarm out: if user wants send alarm out when motion detection, click on the 1 so it has a click  
 Popup: displays a selected camera when motion detection occurs  
 Sensitivity: 1 to 5  
 Press apply to validate your choice

### 6.4.3. Sensor (only for TYPE A and TYPE B)

#### Sensor

	1	2	3	4	5	
Sensor	6	7	8	ALL		
Enable	OFF	NC	NO			
Record CH	✓ 1	2	3	4		
Dwell(sec)	5 ▼					
E-mail	OFF	ON				
Alarm Out	✓ 1					
Popup	1	2	3	4		

Apply

**Sensor:** 1 to 8

**Enable:** setup the status of the sensor OFF / NC/ NO

**Record CH:** select which camera to record in case of sensor trigger

**Dwell time:** define the length of the buzzer after each sensor trigger 0 ~ 9 seconds

**Alarm out:** in case of sensor trigger, DVR will send a signal via alarm out like a buzzer or flashing red light

**Event popup:** ON/OFF

### 6.4.4. G sensor

## GSensor

---

Enable	<input checked="" type="button" value="OFF"/> <input type="button" value="ON"/>
Threshold	<input type="text" value="3 G"/> ▼
Max Variation	<input type="text" value="2 G"/> ▼
Dwell(sec)	<input type="text" value="5"/> ▼
E-mail	<input checked="" type="button" value="OFF"/> <input type="button" value="ON"/>
Alarm Out	<input type="text" value="1"/>

---

**Enable:** ON/OFF

**Threshold:** OFF ~ 5g

**G value Max variation:** OFF ~ 5g

**Dwell time:** define the length of the buzzer after each motion detection 0 ~ 9 seconds

**Email:** can send an email to predefined address in case of the event

**Alarm out:** in case of Gsensor detects a variation, DVR will send a signal via alarm out like a buzzer or flashing red light

### 6.4.5. Speed event

#### Speed Event

▼ Configuration

Enable

OFF

ON

Unit

KPH

MPH

► High Speed

► Low Speed

Apply

This page let user to enable or disable the speed event detection  
Unit can be kilometer per hour kph or mile per hour mph

User can enable or disable high speed detection, specify the highest speed threshold, its dwell time from 0 to 9 seconds, if send email or not and if enable the alarm out or not

▼ High Speed

Enable

OFF

ON

Threshold(KPH)

100

Dwell

5

▼

E-mail

OFF

ON

Alarm Out

1

Same setting applies for low speed detection

## 6.5. Network

### 6.5.1. Network Settings

#### Network Settings

---

Host Name	<input type="text" value="H264Server"/>
DHCP	<input checked="" type="radio"/> OFF <input type="radio"/> ON
IP Address	<input type="text" value="192.168.6.181"/>
Subnet Mask	<input type="text" value="255.255.0.0"/>
Default Gateway	<input type="text" value="192.168.6.254"/>

---

This side enables user to setup network in order to remotely connect to it for example with a notebook for maintenance.

If the network has a DHCP server, you can enable this function.

Please make sure that gateway and subnet mask are the same on both side.

## 6.5.2. Net Service

### Net Service

---

Server Ip	<input type="text" value="192.168.1.2"/>
Server Port	<input type="text" value="8787"/>
Http Port	<input type="text" value="80"/>
Streaming Port	<input type="text" value="554"/>
Msg Port	<input type="text" value="1999"/>
DNS	<input type="text" value="8.8.8.8"/>

---

If your network has a router, please make sure to open these ports in order to enable smooth access to the dvr via browser or cms software.

All these port can be customized according to your needs

## 6.5.3. DDNS service

### Dynamic DNS Settings

---

Enable DDNS	<input type="button" value="OFF"/>	<input checked="" type="button" value="ON"/>
-------------	------------------------------------	--

---

### Service Configuration

DDNS Service	<input type="text" value="DynDNS"/>
Host Name	<input type="text" value="dvr"/>
User Name	<input type="text" value="0"/>
Password	<input type="password" value="•"/>

---

Our mobile dvr supports DYNDNS service, user needs to apply for a hostname and have its own username and password registered at DYNDNS website

#### 6.5.4. Email

##### E-Mail Settings

---

SMTP Server	<input type="text" value="0"/>
Port	<input type="text" value="587"/>
SSL	<input checked="" type="radio"/> OFF <input type="radio"/> ON
Sender	<input type="text" value="0"/>
Recipient	<input type="text" value="0"/>
SMTP Authentication	<input type="radio"/> OFF <input checked="" type="radio"/> ON
Account	<input type="text" value="0"/>
Password	<input type="password" value="•"/>

Smtp server: we recommend to use gmail

Port: check with port your smtp server is using

SSL: enable or disable according to your smtp server

Sender: key in the email of the sender

Recipient: key in the email of the person who will receive notification in case of event.

SMTP authentication: enable or disable according to your smtp server if it's enable user need to provide the mail account and password

### 6.5.5. Mobile network setting

#### Mobile network

---

Enable 3G

OFF

ON

---

#### Configuration

Access Point Name(APN)

internet

Access Number

\*99#

Here you can enable or disable 3G.

Provide information of how to connect to the 3G network (please check your operator for dial up procedure)

### 6.5.6. WIFI setting

#### WIFI

---

Enable WIFI

OFF

ON

Here you can enable or disable the wifi

## 7. Configuration

### 7.1. Information

This section shows three type of information:

- Network such IP, http port, streaming port, MAC adress and gateway
- Wireless network such as connection type, IP and gateway
- Hard disk such brand size and occupation ration

#### 7.1.1. System

Network: displays current network setting and Mac address

HDD: displays hard disk brand, model number, size and occupation percentage

#### 7.1.2. Display

Language

English

繁體中文

User can choose between English and Traditionnal chinese

Status Setup

✓ Date & Time

✓ Record Icon

✓ Network Icon

✓ Channel Name

✓ Motion Icon

✓ Alarm Icon

User can select which items to display

## 7.2. Account

Account

admin

guest

User ID:

Password:

Re-Password:

Group:

Cell Phone:

E-Mail:

Remove

Add

Update

Two level of user can be define and unlimited account can be created

Guest can only see live picture

Administrator as full authority on the device

Cellphone and Email are just for reference and optional

### 7.2.1. Date and time

▼ Date Time Format

Date Format

YYYY/MM/DD

MM/DD/YYYY

DD/MM/YYYY

Hour Format

12H

24H

Select your preferred date format and hour format here

▼ Daylight Saving

Enable

OFF

ON

Enable or disable daylight saving, according to the time zone, it will automatically turns it on and off at the right time

▼ Time Setup

Synchronized

Sync PC

Time Zone

(GMT+08:00) Taipei

date

2011-12-28

time

14:16:25

Here you can manually setup your device time or synchronize with your computer time

### 7.2.2. Car information

Modify Serial number, Company name, Driver name and License number

### 7.2.3. Format

#### Format

Model Name	Capacity	Health	Usage	
TOSHIBA MK3276	320.0 GB	Usable	6	<b>Format</b>

User must format the hard disk before start recording

Factory reset

Once press this option a warning message will appear asking you if you want to reset, press YES to apply

**Factory reset**

⚠ Are you sure to reset ?

**system reboot , please wait...**

7 %

**Reset Default finish!**

100 %

Press ok

## 7.2.4. Log

### Log List

Start Time	<input type="text" value="2011-12-28 17:47:1"/>	<input type="text" value="17"/>	:	<input type="text" value="47"/>	:	<input type="text" value="1"/>	<input type="button" value="Search"/>
End Time	<input type="text" value="2011-12-28 17:47:1"/>	<input type="text" value="17"/>	:	<input type="text" value="47"/>	:	<input type="text" value="1"/>	<input type="button" value="Backup"/>
Channel	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>			
Type	<input type="text" value="System"/>	<input type="text" value="Event"/>	<input type="text" value="Error"/>	<input type="text" value="Operate"/>			

<input type="button" value="First"/>	<input type="button" value="Previous"/>	page <input type="text" value=""/>	<input type="button" value="Next"/>	<input type="button" value="Last"/>
--------------------------------------	---	------------------------------------	-------------------------------------	-------------------------------------

For troubleshooting purpose, you can browse the log

Select the starting and ending time, the channel concerned and use our 4 filters to reduce the number of event then press SEARCH. If you don't select channel, it will display system event.

<b>Search log please wait!</b>	
<input type="text" value=""/>	7 %

### Log List

Start Time	<input type="text" value="2012-05-24 00:00:00"/>	<input type="text" value="0"/>	:	<input type="text" value="0"/>	:	<input type="text" value="0"/>	<input type="button" value="Search"/>
End Time	<input type="text" value="2012-05-26 23:59:59"/>	<input type="text" value="23"/>	:	<input type="text" value="59"/>	:	<input type="text" value="59"/>	<input type="button" value="Backup"/>
Channel	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>			
Type	<input type="text" value="System"/>	<input type="text" value="Event"/>	<input type="text" value="Error"/>	<input type="text" value="Operate"/>			

<input type="button" value="First"/>	<input type="button" value="Previous"/>	page <input type="text" value="1/3"/>	<input type="button" value="Next"/>	<input type="button" value="Last"/>
--------------------------------------	---	---------------------------------------	-------------------------------------	-------------------------------------

Type	Information	Start Time	End Time	Description
Operate	Login	2012-05-26 15:41:41	2012-05-26 15:41:41	192.168.10.64
Operate	Logout	2012-05-26 15:41:22	2012-05-26 15:41:22	192.168.10.64
Operate	Login	2012-05-26 14:20:05	2012-05-26 14:20:05	192.168.10.64
Operate	Login	2012-05-25 21:21:56	2012-05-25 21:21:56	192.168.10.64
Operate	Login	2012-05-25 21:21:54	2012-05-25 21:21:54	192.168.10.64
Operate	Logout	2012-05-25 21:21:37	2012-05-25 21:21:37	192.168.10.64
Operate	Login	2012-05-25 20:25:36	2012-05-25 20:25:36	192.168.10.64
Operate	Login	2012-05-25 17:49:17	2012-05-25 17:49:17	192.168.10.64
Operate	Login	2012-05-25 17:03:52	2012-05-25 17:03:52	192.168.10.64
Operate	Host/Car Setup	2012-05-25 17:01:22	2012-05-25 17:01:22	192.168.10.64

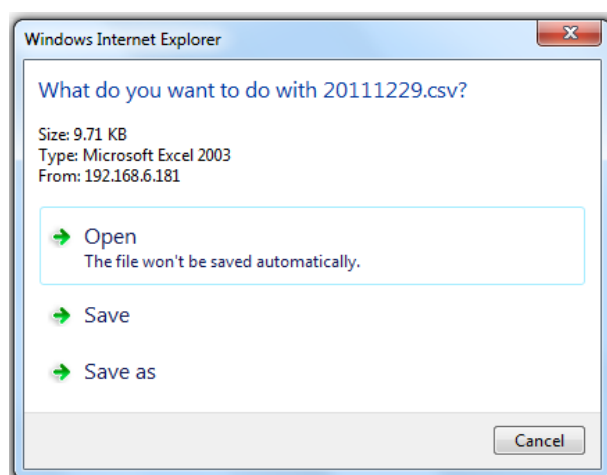
If you want to backup the log, press BACKUP,



Then press download

it will export all the events in one csv file

Choose **Save**



Then open the file with Microsoft Excel or any program supporting csv file

## 8. Vehicle Management Software (VMS) *works only for TYPE A*

Our VMS is composed :

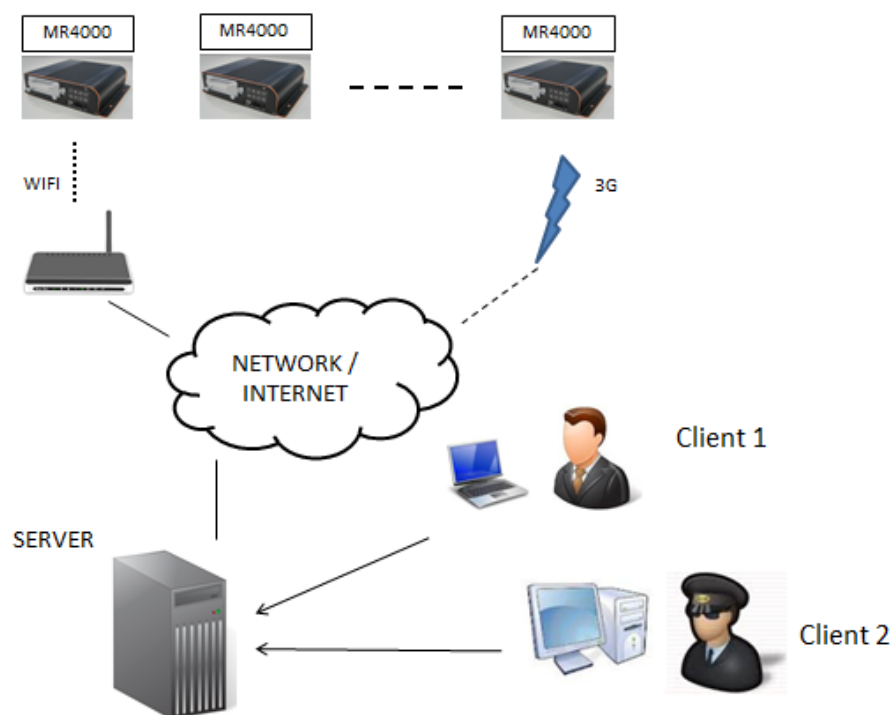
A client called MR VMS

A pc viewer called MR PLAYER,

A server software

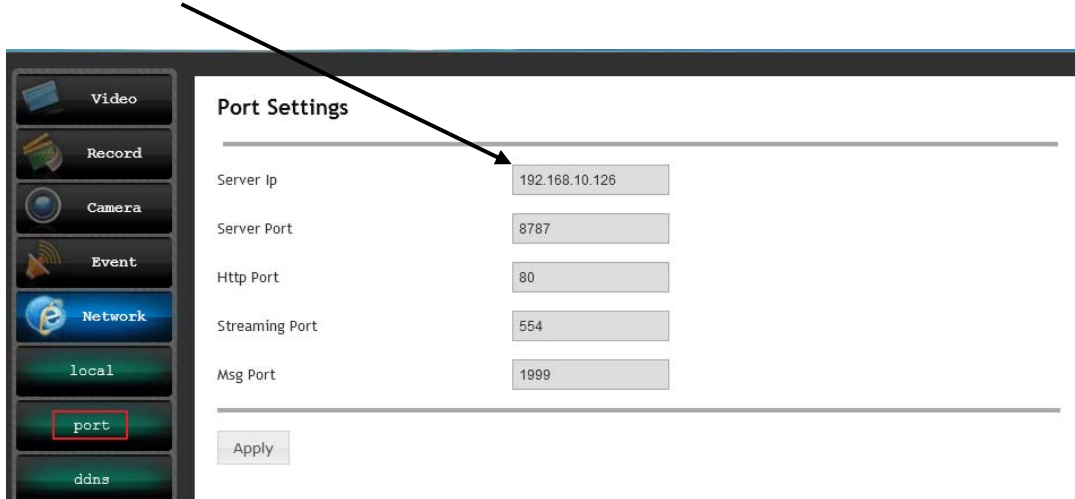
Mobile DVR send information to server via 3G network and any client can connect to server

System architecture



## 8.1. Server software installation

Server main purpose is to receive data from each mobile dvr, so user needs to tell to the dvr the **server IP**, open internet explorer and key in the dvr IP, then go to Network then Port



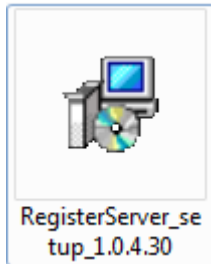
The screenshot shows a web interface for configuring a DVR. On the left is a vertical menu with icons and labels: Video, Record, Camera, Event, Network, local, port, and ddns. The 'port' option is highlighted with a red rectangle. An arrow points from this 'port' option to the 'Port Settings' section on the right. The 'Port Settings' section contains a table with five rows: Server Ip (192.168.10.126), Server Port (8787), Http Port (80), Streaming Port (554), and Msg Port (1999). Each value is in a text input field. At the bottom of the settings area is an 'Apply' button.

Port Settings	
Server Ip	192.168.10.126
Server Port	8787
Http Port	80
Streaming Port	554
Msg Port	1999

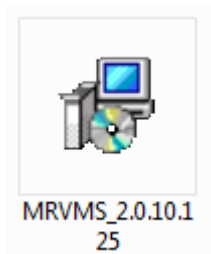
Apply

## 8.2. Client software installation

First install Register server software located in the cd on your computer and follow instructions



Then install the MRVMS software and follow instructions

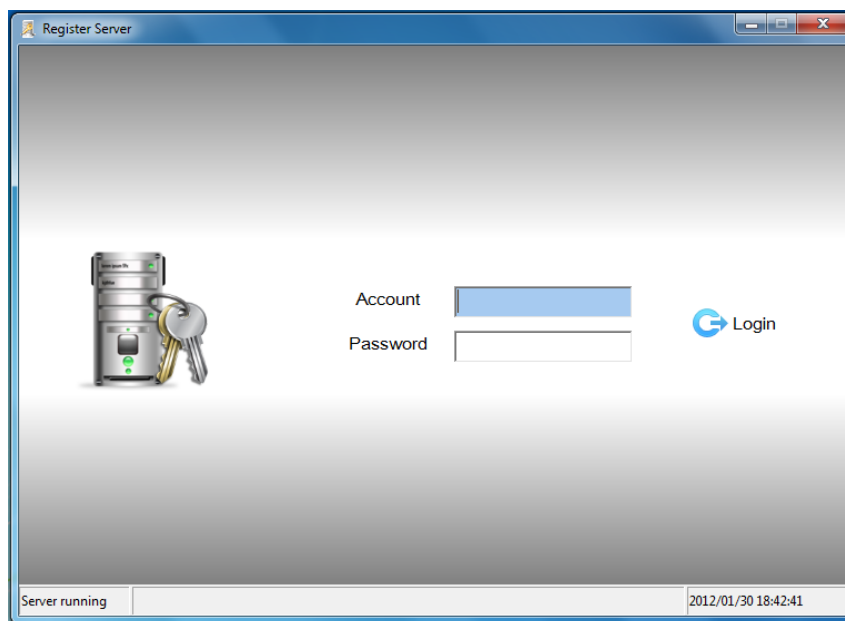


### 8.3. Operation

**Server side:** launch the application named register-server



Default account and password are admin / 1111



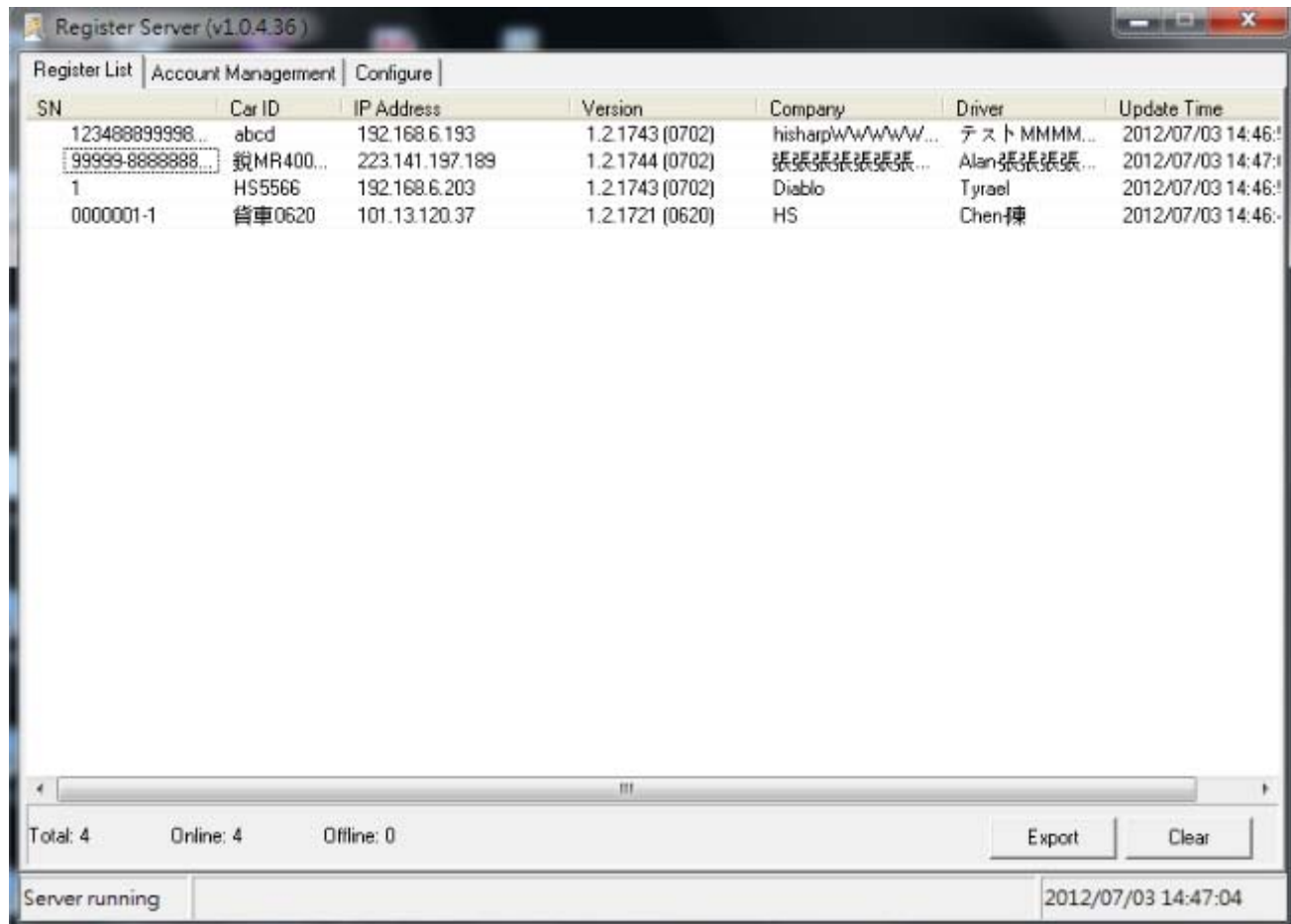
Then you will access to a page showing device connection status

At this page you can see each device serial number, Car ID, IP address, Update time and Status

Export button enables user to repatriate all car information into a text file.

Clear button enables clear the current list, the server will then updates automatically the mobile dvr that can be linked

If the dvr is in grey color it means that it's offline

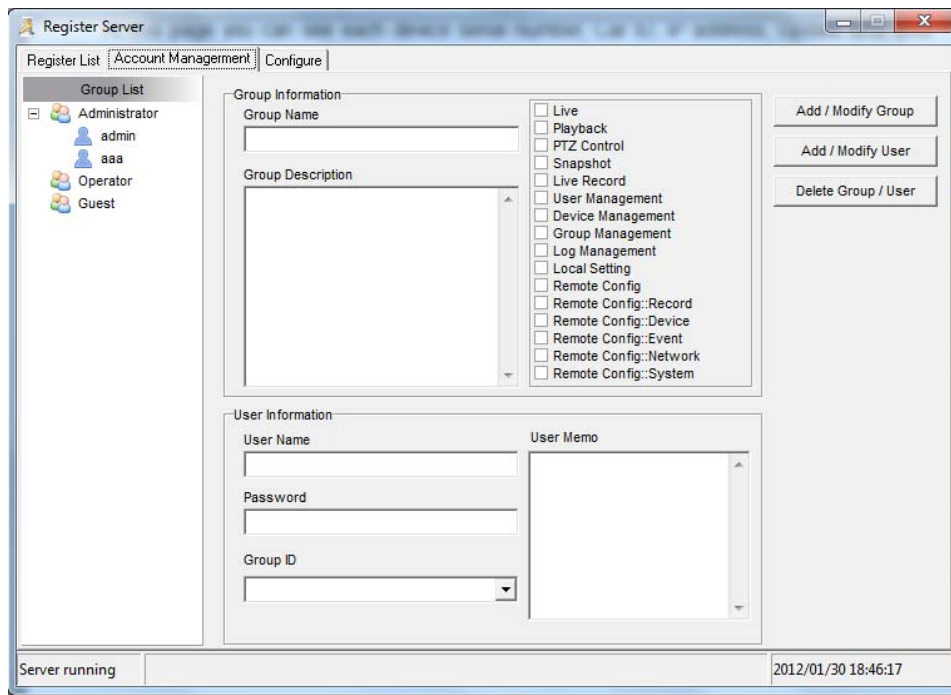


SN	Car ID	IP Address	Version	Company	Driver	Update Time
123488899998...	abcd	192.168.6.193	1.2.1743 (0702)	hisharpWwWwW...	テスト Mmmm...	2012/07/03 14:46:!
99999-8888888	銳MR400...	223.141.197.189	1.2.1744 (0702)	張張張張張張張...	Alan張張張張...	2012/07/03 14:47:!
1	HS5566	192.168.6.203	1.2.1743 (0702)	Diablo	Tyrael	2012/07/03 14:46:!
0000001-1	貨車0620	101.13.120.37	1.2.1721 (0620)	HS	Chen陳	2012/07/03 14:46:!

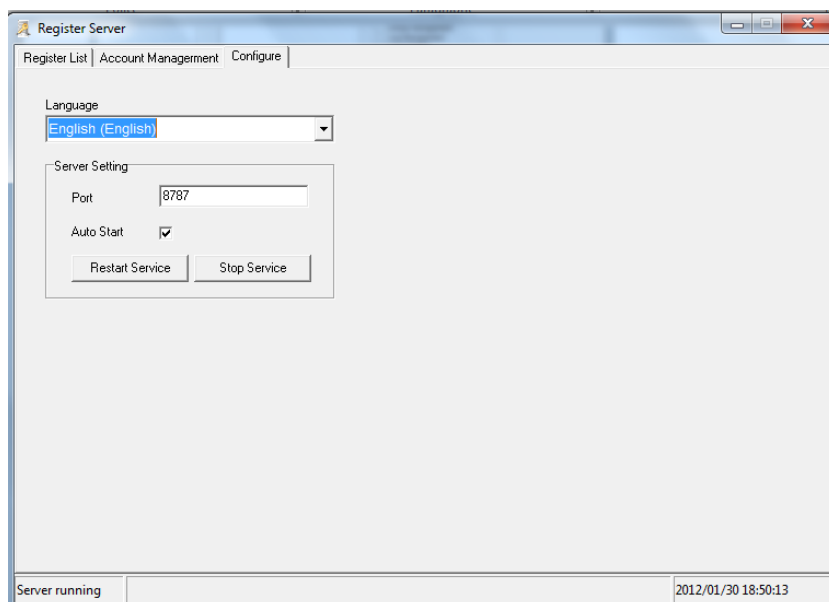
Total: 4    Online: 4    Offline: 0    Export    Clear

Server running    2012/07/03 14:47:04

Click on the second tab will let you access to account management page



There are 3 level of account, Administrator, Operator and Guest each can be customized on the right side. This concerns login from cms client,  
Click on the third tab to access to the language display setting you can choose between English and Chinese



Server setting: default port is 8787 , you need to double check on the mobile dvr that the port is the same otherwise the server wont be able to see the device

## Port Settings

---

Server Ip	<input type="text" value="192.168.10.126"/>
Server Port	<input type="text" value="8787"/>
Http Port	<input type="text" value="80"/>
Streaming Port	<input type="text" value="554"/>
Msg Port	<input type="text" value="1999"/>

---

Apply

Start / Stop the service: the default setting is set on enabled but you can manually stop the server

Client side: launch the application called HS VMS



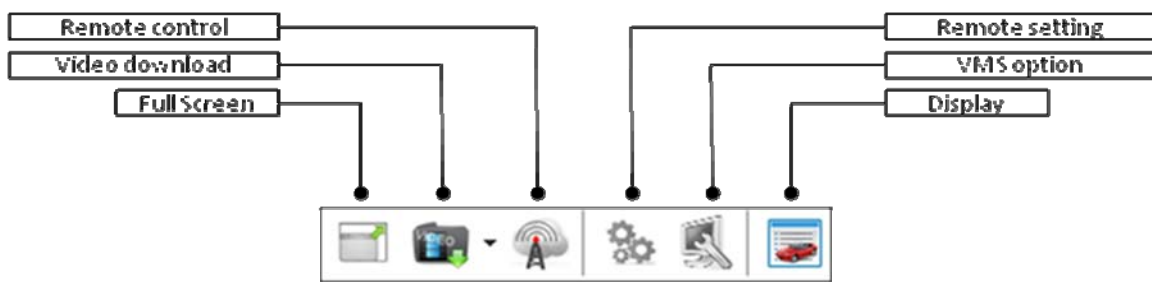
Default account and password are admin / 1111



Specify the server IP, Specify the server streaming port

Choose the program language interface between English and Chinese

## 8.4. Tool bar description



### 8.4.1. Full Screen

Displays the video in full screen on your monitor, to return to normal mode press ESC button on your keyboard

### 8.4.2. Video download

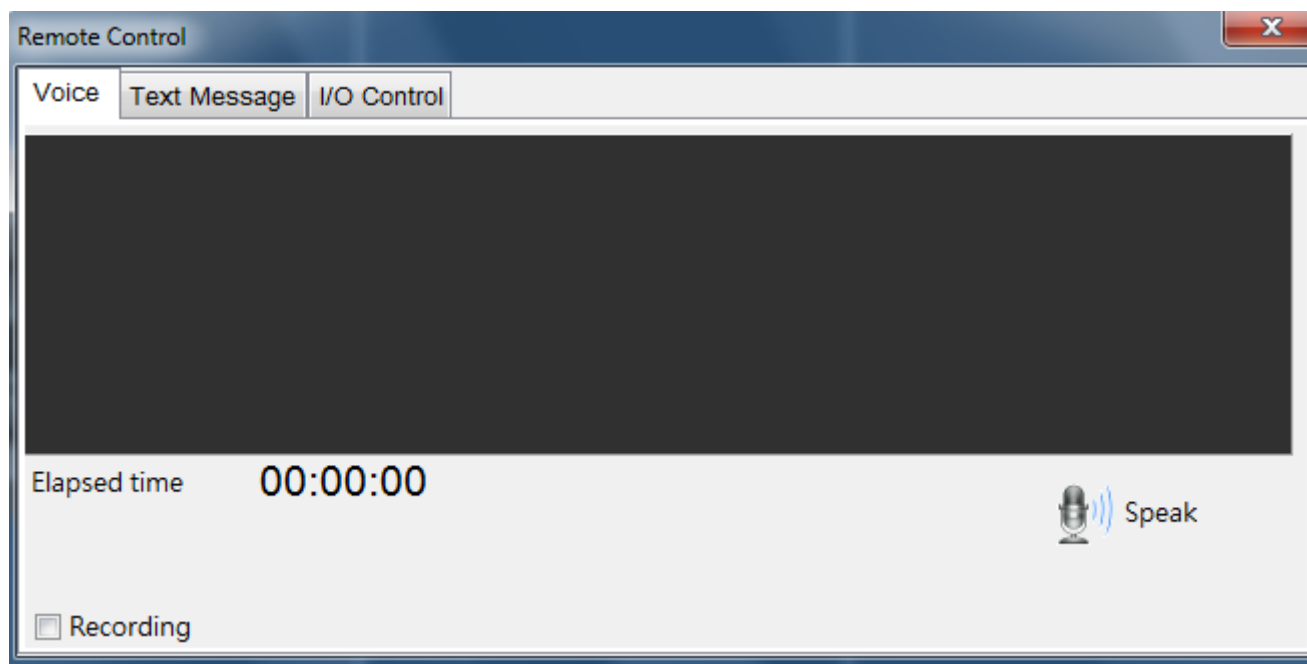
Download recorded data from the dvr remotely, you can choose between, 1, 5, 10, 30, 60 minutes or all the date (it may affect the bandwidth and slow the connection)

### 8.4.3.



### Remote control

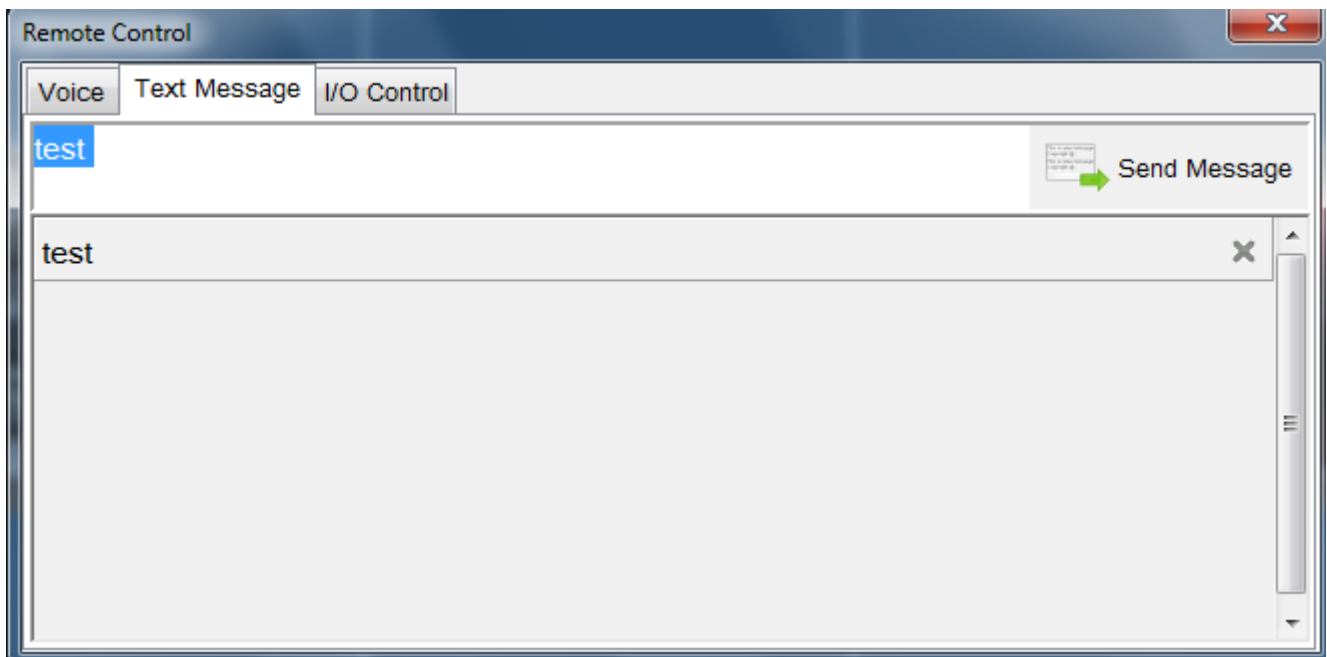
Remote functions



### Two way audio

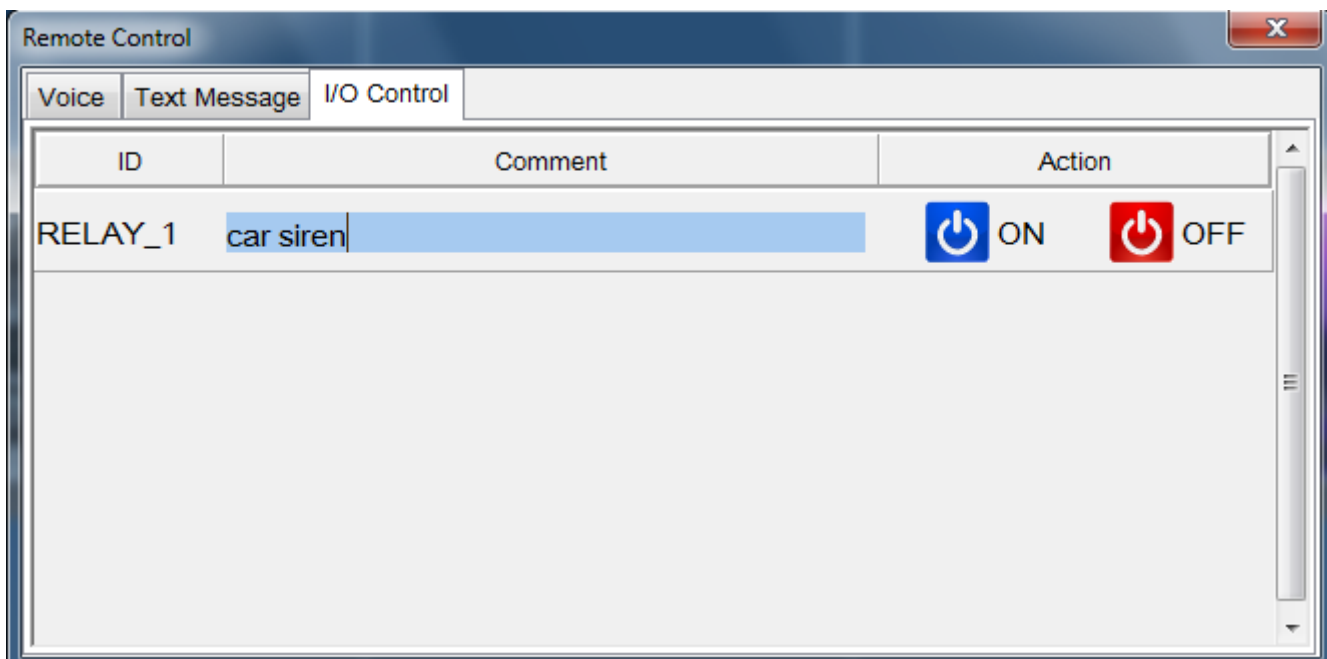
Maintain speak button to talk with your interlocutor or to the driver.

If you select recording, the conversation will be recorded in your computer



### Text Message

From the vms you can send a message to the driver to inform him of any important event or information, it will be display on the main monitor of the mobile dvr



### I/O control

As the mobile dvr has an alarm output, user can give description of what kind of device is connected to it in case there is alarm out triggered



#### 8.4.4. Remote setting

let you remotely setup mobile dvr features

all the functions are the same of the mobile dvr itself , to be able to access to the setting, the dvr must be connected.



#### 8.4.5. VMS option

Let you setup the snapshot path folder, live record path folder, split screen mode (1/4/9/16/36), and also event log number

VMS Option

System

Snapshot Path C:\Users\aloun\Documents

Live Record Path C:\Users\aloun\Documents

Split Screen Mode 16-Split Screen

Event Log Total Count 1000

Connect Timeout (ms) 30000

Save Cancel



#### 8.4.6. Vehicle display

Display or hide the vehicle list

4 type of display are available select the one according to your preference



Map View



Live View



Map View Mainly








Live View Mainly


Car list: the program will show connected device with additional information, you can create or delete group for better management and pull one device to a group


Vehicle List


Camera Setting





All Car List


 All Car List (5)


☐  HS5566

☐  TryMe


☐  abcd

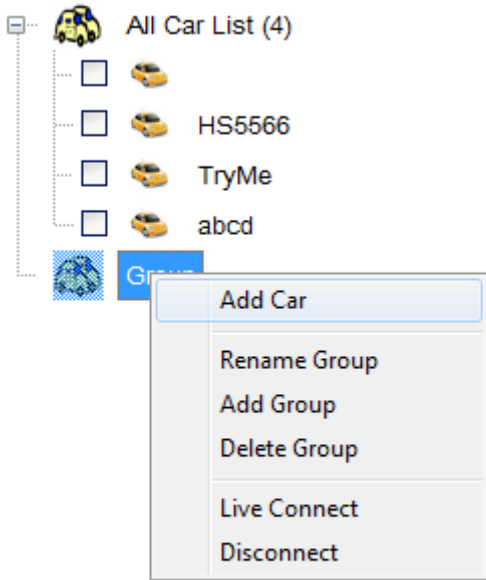
☐  貨車0620

☐  銳MR4000-張張

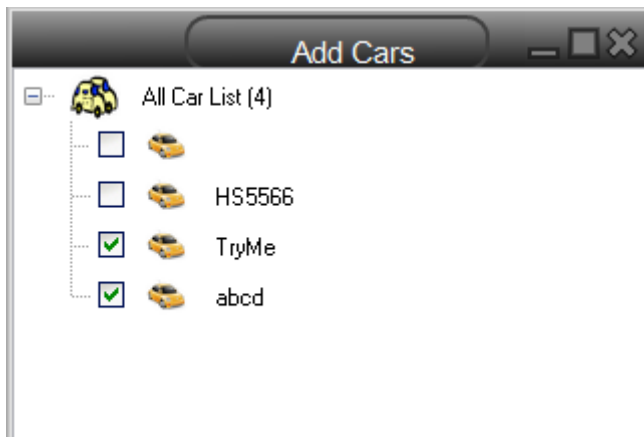
 Group

SN	1
Car Number	HS5566
IP	192.168.6.203
Messenger Port	0
Http Port	554
Stream Port	0
Company	Diablo
Driver	Tyrael
Version	1.2.1743 (0702)

Before to see live picture, you need to create a group. Click on  , a car icon will appear, right click on the mouse to display the functions

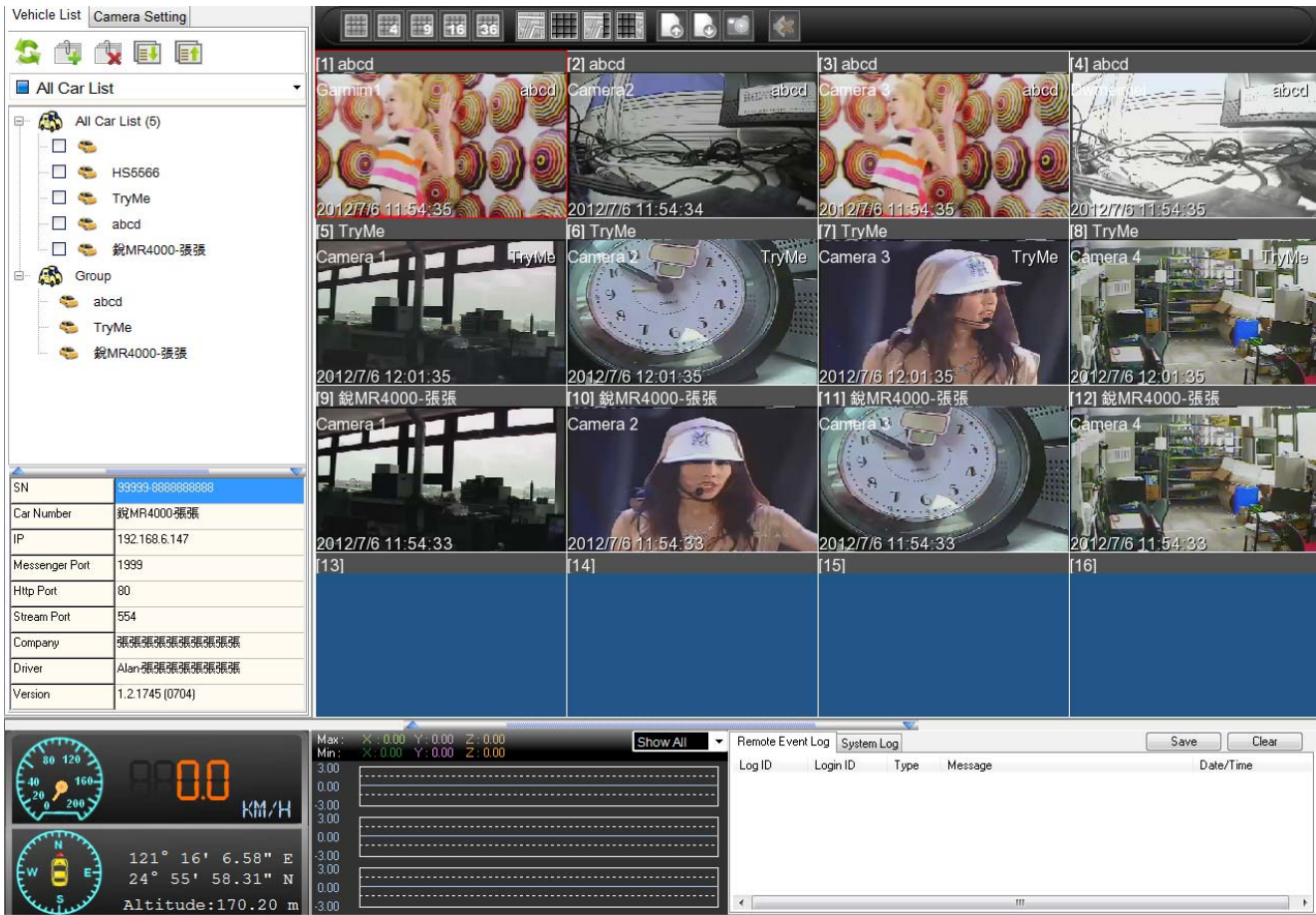


Add car: choose the car you want to add by selecting them



Then valid by pressing OK

Here you can see live picture with gps information



This section allows you to control the ptz camera and adjust the camera quality

Car List

Camera Setting

PTZ Control

▲

▼

◀

▶

■

−

+

−

+

−

+

ZOOM

FOCUS

IRIS

Speed

1

Preset

Preset 1

Set

Go to

Clear

Camera Parameter

Color Adjustment

Brightness

Contrast

Saturation

Hue

Gain

0

0

0

0

0

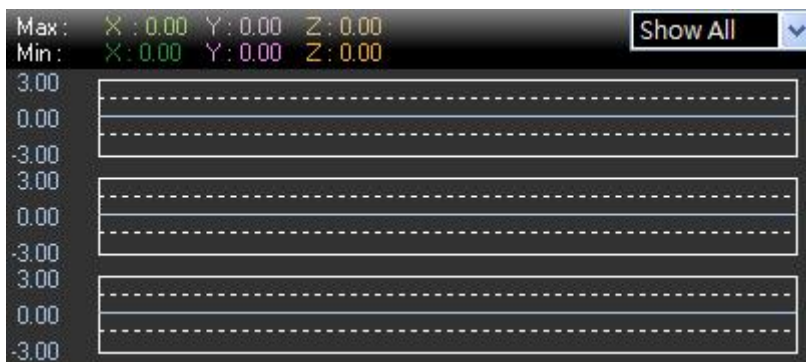
Reload

Apply

This figure show the g-sensor information



This figure shows the real time speed of the car



This section shows real time information such as event, vloss, relay out or motion detection

Remote Event Log

System Log

Save

Clear

Log ID	Login ID	Type	Message	Date/Time
EL00000001	admin	Notice	CH5 Video Loss	2012/07/10 15:47:26

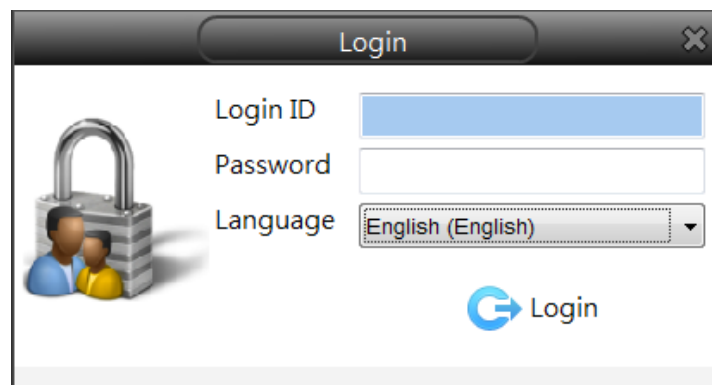
<

>

MR player application operation

Default id/password is admin/1111

At this stage you can select between English or Chinese interface



The image shows a login window titled "Login" with a close button (X) in the top right corner. On the left side, there is an icon of a padlock and two stylized human figures. The main area contains three input fields: "Login ID" (a blue-outlined text box), "Password" (a white text box), and "Language" (a dropdown menu currently showing "English (English)"). At the bottom right, there is a blue circular button with a white right-pointing arrow and the text "Login".

## 8.5. Program interface



1 is showing the position of the car according to Google map database (or soso map for China)

2 is showing Gsensor information and current speed

3 is displaying video by date

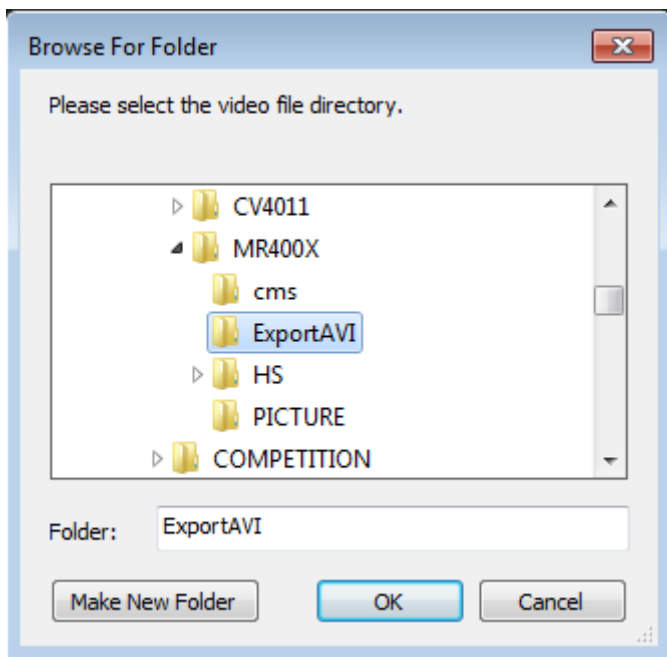
4 is displaying video and let user to control playback

There are two way to open a file:

### 8.5.1. Open AVI



To open a file press the first icon and find the folder you store the avi file



You will be able see the recorded files displayed by date

To play a file just double click on the date then a specific time



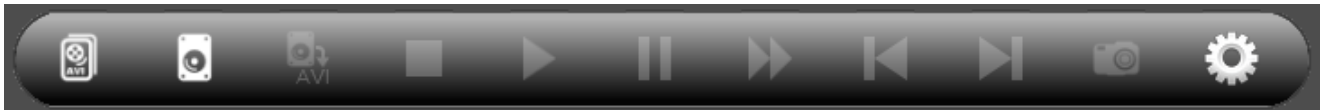
### 8.5.2. Open HDD












After you select the hard disk you will see this display



you can export the video into avi file by pressing the third icon

### 8.5.3. Control bar description



Icon	Description
	Open a avi file in a folder
	Open hard disk containing the video
	Convert a period from the hard disk into AVI format
	Stop the playback
	Playback
	Pause
	Fast Forward
	Playback previous file
	Playback next file
	Take snapshot of current video
	System setting

#### 8.5.4. Snapshot

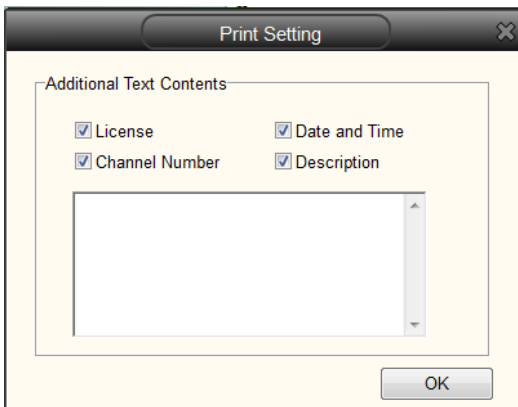


If you press the snapshot icon, a window will pop out



You can save manually or auto save the picture

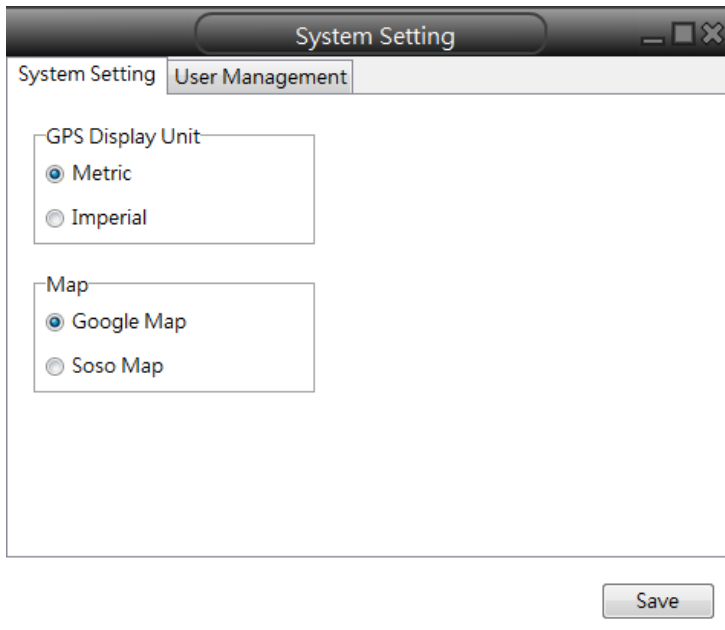
You can adjust print setting by pressing SETUP button, another window will come out



You can add in your picture print license number, plate number, date and time, and also description (by adding text)

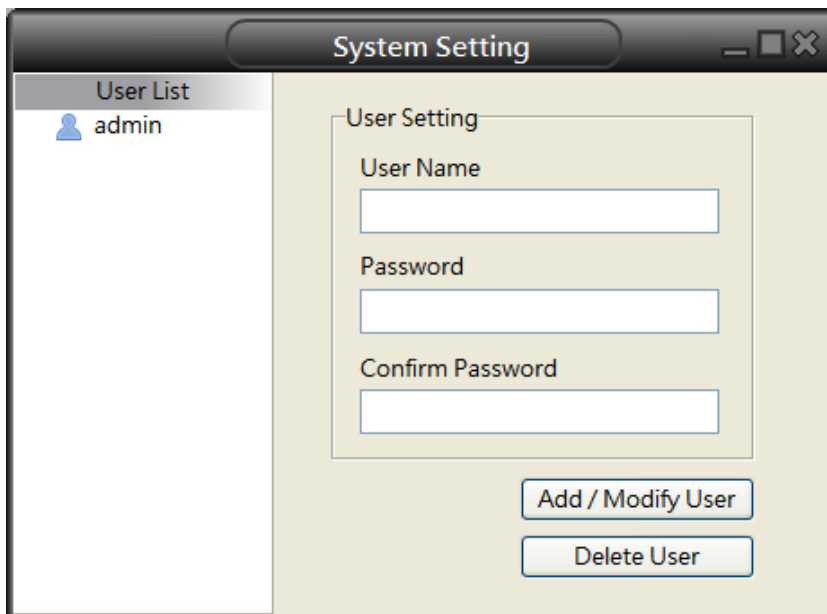
If you press PRINT button, the computer will send the picture to your connected printer.

### 8.5.5. Setting



The image shows a 'System Setting' window with two tabs: 'System Setting' and 'User Management'. The 'System Setting' tab is active. It contains two sections: 'GPS Display Unit' with radio buttons for 'Metric' (selected) and 'Imperial'; and 'Map' with radio buttons for 'Google Map' (selected) and 'Soso Map'. A 'Save' button is located at the bottom right of the window.

Here user can select GPS display unit and also which map use  
If you are in China, please select soso map



The image shows a 'System Setting' window with two tabs: 'System Setting' and 'User Management'. The 'User Management' tab is active. It contains a 'User List' on the left with a user named 'admin' and a 'User Setting' form on the right. The 'User Setting' form has three input fields: 'User Name', 'Password', and 'Confirm Password'. Below the form are two buttons: 'Add / Modify User' and 'Delete User'.

In this section you can manage your different account, by changing administrator password or add new account. There are no limits of number of account  
You can also delete user.

## Appendix A

### Extension cord for alarm trigger by voltage input

Please use the provided cable and connect to the back I/O board of the mobile DVR



Then please refer to the below drawing for trigger

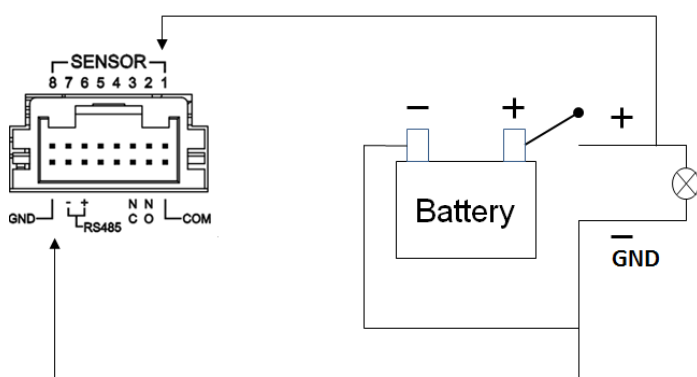
For example, we consider the steering column switch, we want to display the right side camera when the driver is enabling the steering switch to RIGHT position

#### Cabling instructions

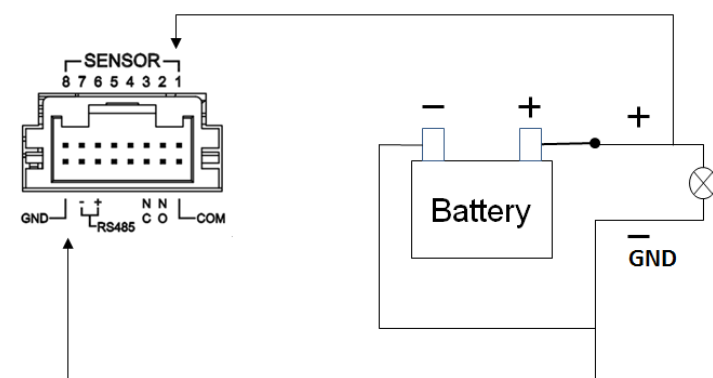
One wire is pulled from the flashing light positive side until the sensor in 1 of the mobile DVR

One wire is pulled from the flashing light ground side until the ground pin of the mobile DVR

When the driver is not enable the steering column switch, the battery positive wire and the flashing lamp wire are not linked

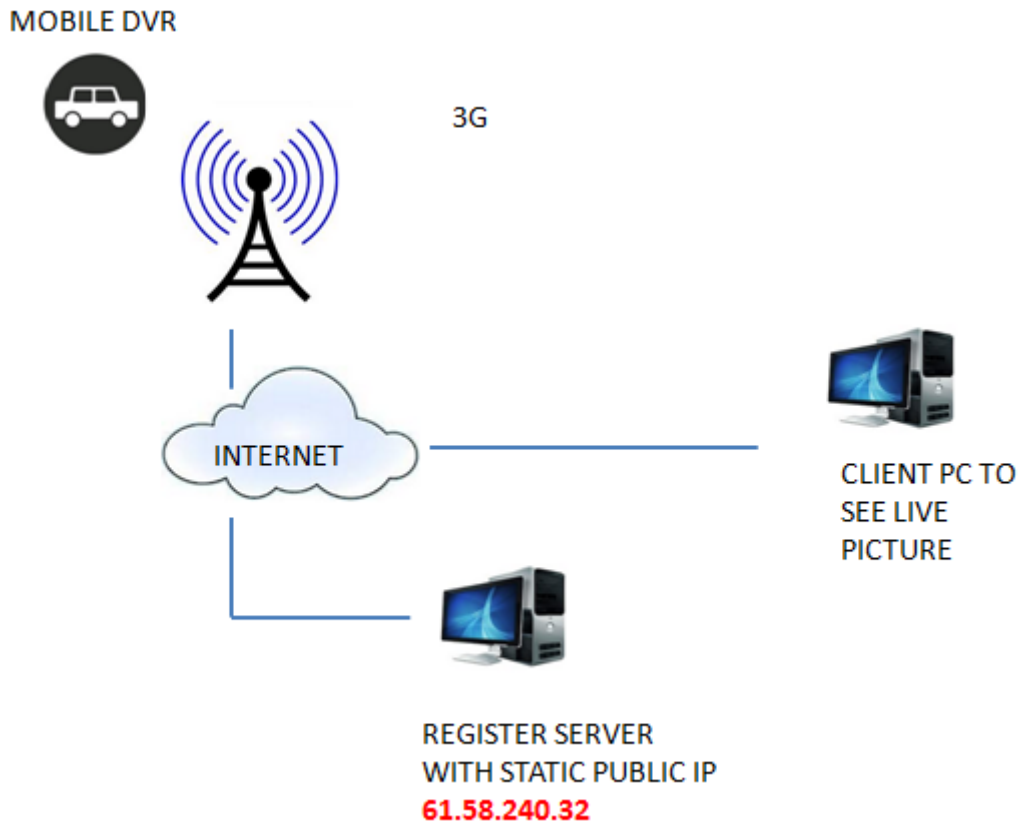


When the driver is enabling the steering column switch, the battery positive wire and the flashing lamp wire are linked, the right light is flashing, the power from the battery goes to the sensor in 1 pin to trigger and then user can have right camera in full screen on the monitor



## Appendix B

### Connection to the MR4000



#### STEP 1 SETUP THE SERVER PC

The mobile dvr use 3G to send the data

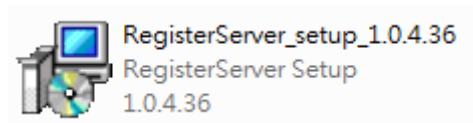
Please make sure the PC has static public IP

The public IP is **61.58.240.32**, this is the IP needed by the MR4000 also named as CENTER IP

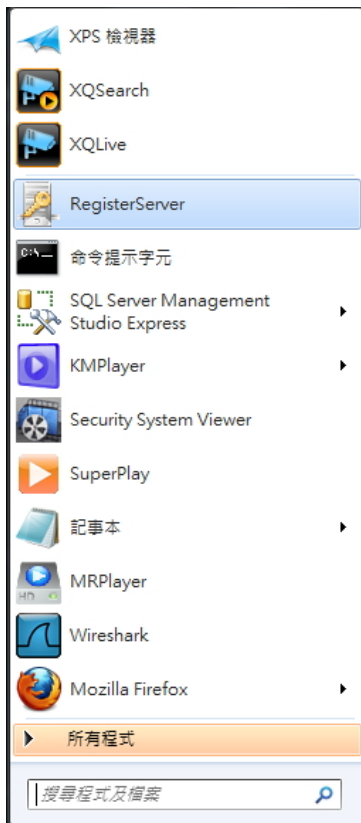
The **register server pc** will be used as a register server to receive all the information from the mobile dvr

The **client pc** will be use by the user for see live picture of the mobile dvr and other car information

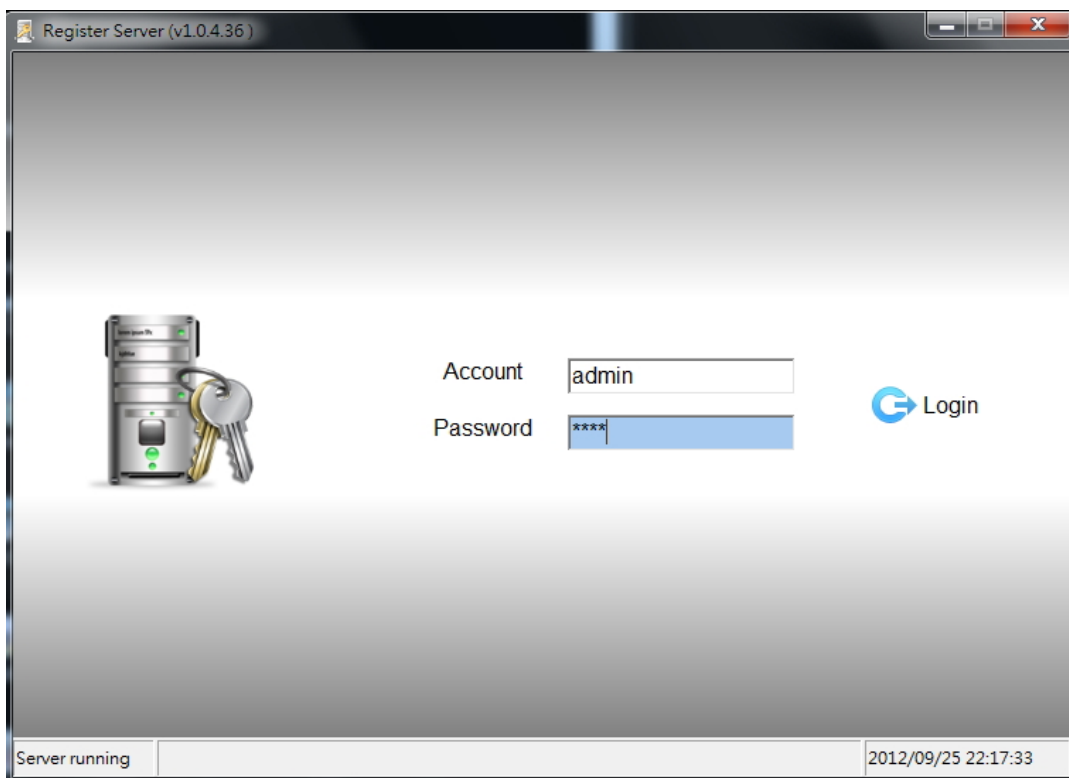
Then on SERVER PC, you have to install the software called Register server



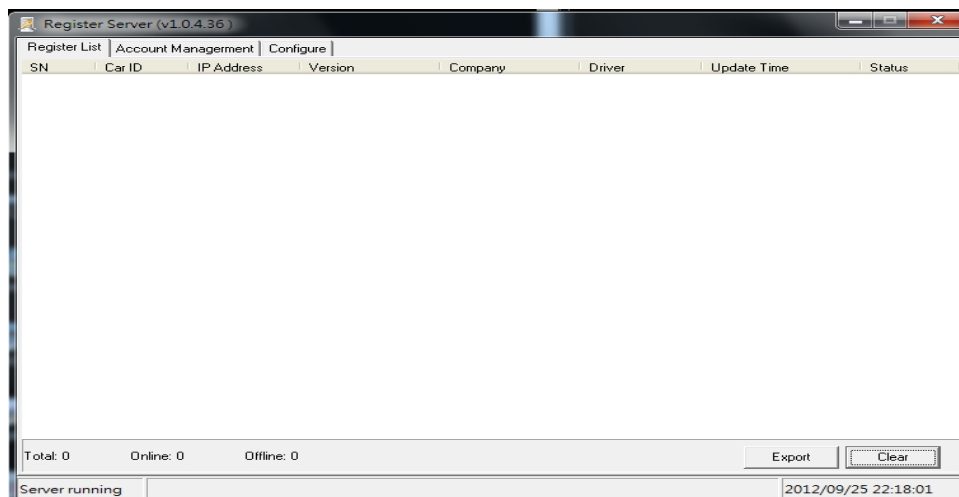
Launch the application REGISTER SERVER



Default account is admin Default password is 1111  
Then click on LOGIN



After login, the server will start running you will not see anything now

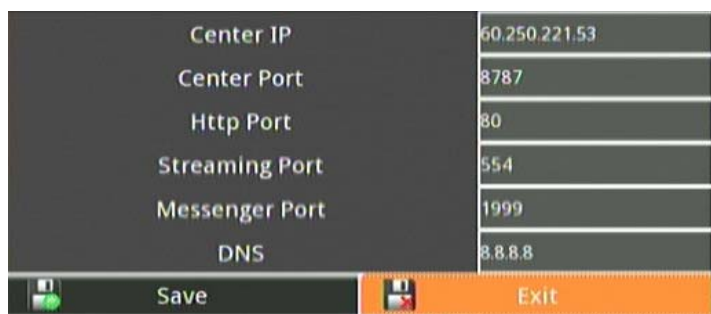


## STEP 2 SETUP THE MOBILE DVR MR4000

On the MR4000 after you insert the 3G SIM CARD inside

On the live display

Click on ADVANCED, → NETWORK→ NET SERVICE



Center IP: **60.250.221.53 for example**

The other ports no need to modify them

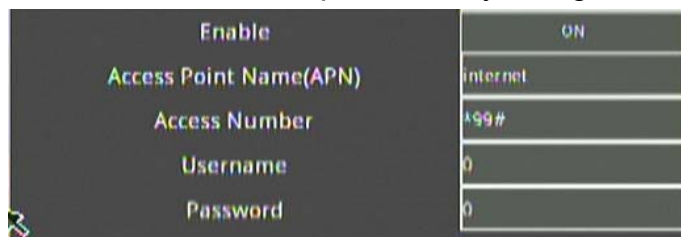
To turn on the 3G connection

On the live display

Click on ADVANCED, → NETWORK → 3G

Turn to ON and provide APN, access number, username and password information


For these information please ask your 3g internet service provider




To check if the 3G connection is established

On the live display

Click on ADVANCED, → SYSTEM INFO → 3G INFO

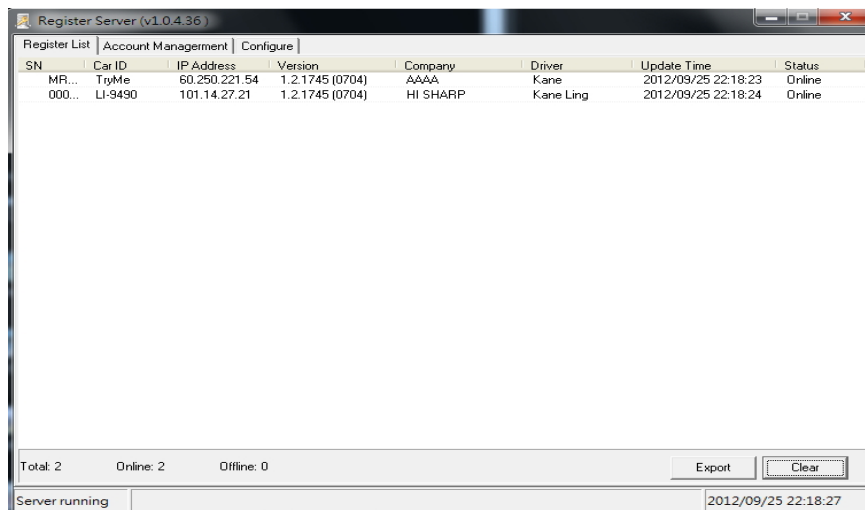
Enable	ON
Signal	
IP address	101.14.27.21
Netmask	255.255.255.255
Gateway	10.64.64.65

You can also check in the front of the mobile dvr that the icon  is green which mean the 3G connection is established

#### STEP 4 CHECK SERVER STATUS

Then return to your SERVER PC

In the register server main windows you will see devices appear with the IP address, software version etc



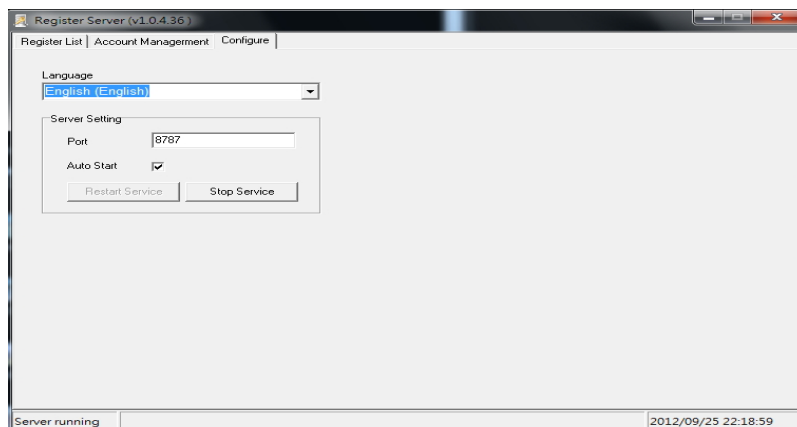
SN	Car ID	IP Address	Version	Company	Driver	Update Time	Status
MR...	TryMe	60.250.221.54	1.2.1745 (0704)	AAAA	Kane	2012/09/25 22:18:23	Online
000...	LI-9490	101.14.27.21	1.2.1745 (0704)	HI SHARP	Kane Ling	2012/09/25 22:18:24	Online

Total: 2    Online: 2    Offline: 0    Export    Clear

Server running    2012/09/25 22:18:27

If you want to stop the server, click on CONFIGURE and click on STOP SERVICE

Auto start means when your computer is turned on, it will automatically start the server software



Language: English (English)

Server Setting

Port: 8787

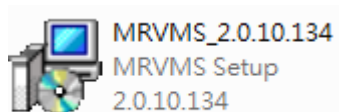
Auto Start: ☒

Restart Service    Stop Service

Server running    2012/09/25 22:18:59

## STEP 5 CONNECT TO MOBILE DVR WITH MRVMS

The client pc can be anywhere, you have to install the software called MRVMS



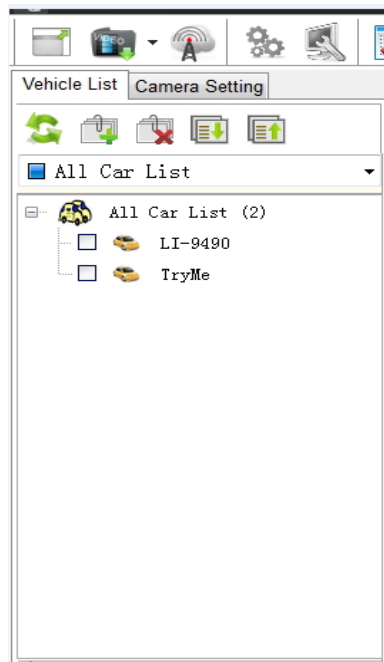
launch the application called MRVMS

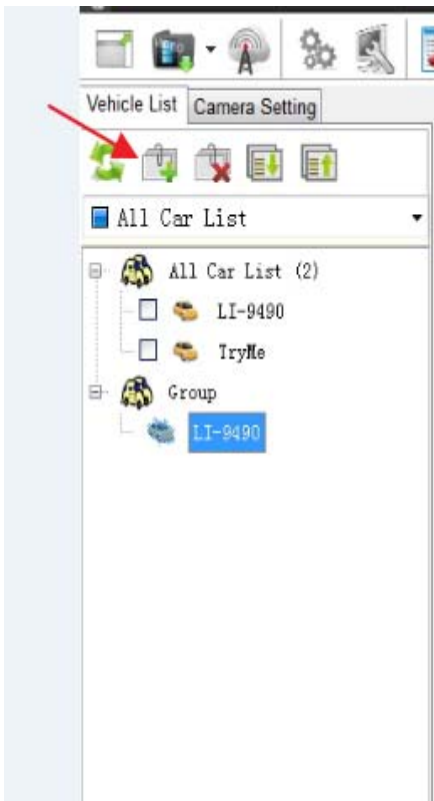


Default account and password are admin / 1111



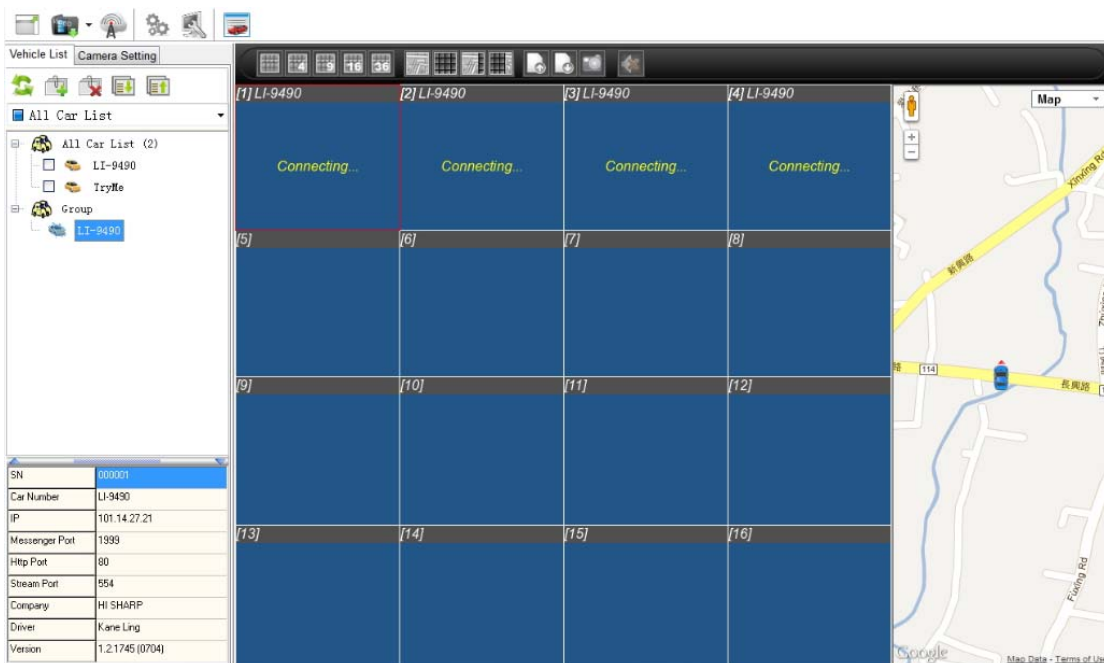
Specify the server IP here is **1.2.3.4**, default id is admin, default password is 1111  
You will access to the software interface , you can see on the left the mobile dvr online





Click on the second icon to create a group, then pull the LI-9490 with the left click mouse to the group.

To see live picture, move the li-9490 to the right screen first channel, it will show *connecting* then the picture will come out will the GPS localization on the Google map



## Notification

A new feature is available on firmware 1.3.2081\_1119

It means you can specify which stream that you want to enable or disable over the network, after closing either live video or playback video will not be available through the network. Default setting is all stream enabled.

On the mobile DVR, please go to ADVANCED SETTING/ NETWORK/ NET SERVICE

Select the channel stream you want to enable



On Internet Explorer

Net Service	
Server Ip	192.168.6.241
Server Port	8788
Http Port	80
Streaming Port	554
Msg Port	1999
DNS	8.8.8.8
Register Timing	<input type="radio"/> OFF <input checked="" type="radio"/> 10 (sec) <input type="radio"/> 30(sec) <input type="radio"/> 60 (sec)
Streaming	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4
<input type="button" value="Apply"/>	

30 BIS