SJ-AK49

High Definition and touch Camcorder

High definition 2CH Car DVR/Speed Camera /Radar Detector/Security-Tracker-Photo

Quick user guide

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Warranty Service and Responsibility

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The incorrect installation or utilization could cause damageto device or user. We shall not be liable for result, incidental damages or other losses that incurred by user inrelation with user's mistake to obey the information andinstructions contained herein.The product is designed to record, store, play and analyzesvideos caused by impacts but we do not guarantee theproduct records every event without missing. Furthermore, if the impact is too weak, the vibration sensor may not beable to detect the impact, which induces that the systemwill be unable to automatically start recording the video file.The information within this manual may change withoutnotice due to technical changes or upgrades.

Product Feature

- 140° super degree wide angle, the visual range is wider 15% than the other similar products in the electronic community.
- Humanity operation interface uses all-touch-control, you can operate video, photograph, mute switch, emergency protection enforcement files by fingers immediately; 2.4 Inches super wide screen, frame shade design, and good sharpness make all information and functions are just at a glance.
- Screen sleep mode function allows no interference from screen brightness.
- Equipped with 1/4"HD CMOS High quality PC components, it not only has the 1080P Full HD and 720P HD high resolution levels, but detects lighting changes between day and night, adjusting the ISO automatically, strengthen the quality of shooting.
- Using 5 Multi-layer glass lens, capturing images hyper-realistic; Exclusive glare hood design, improve photo quality.
- Equipped with function of digital zoom (zoom), supporting the operation of 4x optical zoom support for video and photos Model All operations.
- Built-in 3G-SENSOR Gravity sensor, detecting X Shaft, Y Axis and Z Axis 3 Stereo spatial variation of gravity automatically, providing emergency video automatic protection; when being hardly hit,

G-Sensor detect and switch on film protection automatically, recording key files by full guarantee.

- Supporting optional outer type GPS locating speed camera detector, it can display locations, on the screen and voice release speed camera, maximum speed limit, speed and coordinate the information, strengthening vehicle detection protection capacity, and reducing speeding fines.
- Function of automatic loop recording, can overwrite old files automatically.
- Function of seamless video recording, ensures that records images complete and no leaks seconds.
- Function of delaying start can prevent electropulsing would damage the product at the moment while car starting, improve service life.
- Starting recording is with car starting automatically, and delaying turning off automatically to ensure the completeness emergency record.
- Providing video mode and playback mode synchronized the image output, it can be used with car audio equipment.
- Supporting maximum 32GB Micro SD Card. (Please choose grade over 4GB Class 6)
- Built-in microphone and speaker can record clear audio quality.
- The product uses RoHS unleaded manufacturing process and passed Taiwan BSMI, CE, FCC International safety certificates.

- Speed Camera Detector

  Italerts you kinds of speed cameras. Radar Detector and database are built-in L869. GPS system starts to work after being turned on. The front panel displays your direction and GPS time.

- Vehicle monitoring system

  Highly sensitive GPS chip andlocalization sensors can trace your position and send the location where you are to the cellphone or IP address.

- Anti-theft system

Ultrasonic wave and G-sensor detect unusual invasion, break of car window and tow. Front lens take pictures and store in Micro SD Card which is built-in, after warning mode being started. L869 is different from the other speed camera detector, it can provide you a more detailed situation in your car.

Caution

- Please set up all the function options before you start to drive the car, in order to assure drive safety, please avoid operating while driving.
- Please keep the lens clean, do not touch the lens by something contains oil or water, that would cause the lens become dirty and blurred, so the quality of recording will be lower. We recommend that you clean the lens by wiping clothe to keep the high quality of recording don't clean the le ns by tissue or paper, so you can protect your product from scratch.
- Please keep the camera lens clean substances such as grease or moisture d o not use finger sticking the lens, which can result in dirt and produce a haz y fog lens or a halo effect, resulting in shooting quality; we recommend that you periodically wipe the lens with a lens cloth, to maintain the quality of sh ooting high definition clarity and do not wipe with toilet paper or paper the l ens in order to avoid scratching the lens glass.
- Please use the Micro SD Card (at least more than 4GB, recommended u sing above Class6). For the first time using the Micro SD card, please format it, make sure that the memory card would be used properly on the product.
- In order to assist the recording sharpness of the video, please maintain it and always wipe the interior sheathing paper.
- If your vehicle is not usually used, and long-term exposure at outdoor, it is recommended that you remove this product back in the indoor and insta lled again in car to extend product life.

Apearance

1	2.4 Inches Touch screen	6	Cradle slot
2	USB	7	Second shot Jack
3	Power on/off	8	Micro SD card slot
4	AV OUT	9	GPS
5	LED pilot lamp		

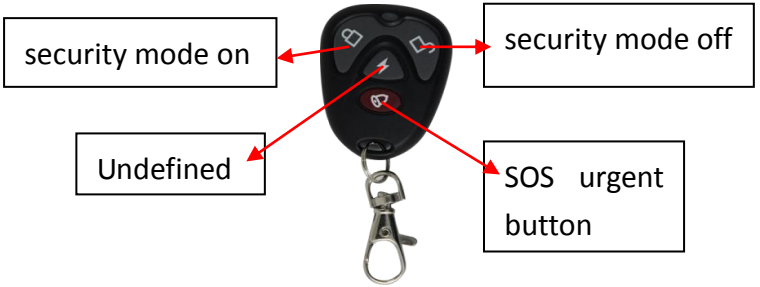
Hardware

1. Use tool to take out SIM card socket

2. Insert the SIM card, with the chip side on the top. Please remember to remove the PIN code in your SIM card before setting.

3. Set Micro SD card in your SJ-L869. The Micro SD card supports up to 2G.

Learning the remote control



1. Hold the LK key on the interface of SJ-L869 for 5 seconds until L/K being light on.
2. Press any key of the remote controller.
3. The device buzz four times, when it has learnt the controller.Up to 4 remote controllers supported.

Remote Controller buzz table

Type	Beep frequency
The device can receive no more remote control(Received over four pieces)	1 time
The remote control received successfully	4 times
The remote control have already been set	1 time

Reset the default settings

When the device was shut down, press the reset key on the device until hearing beep for 3times. It will be reset the default settings.

Cradle	Motor power c ord	Rear lens	Lens extension cable
RFremote-co ntrol	Car Charger	USB extension cable	User CD

Begin using the product

Once the packaging is opened, insert SD Card, the product can be directly connected to get in to start with using the power cord.
Please choose the appropriate SD Card (recommended to use 4GB, access speed above Class6). Following the indicated direction, insert the SD Card to the card slot until you hear a loud "click" sound, complete installation. If you would like to remove a card, just push the SD Card inside to the card slot light, it will automatically eject to remove. (Video, photo and playback file during playback, please do not removed SD card, that may cause files be corrupted, it also may cause the host not work normally)

Install Car Holder

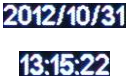
Attached car holder can be adsorbed on the front windshield, to fix the product, please follow the following steps for fixing car holder and the product.

A. Insert the buckle of the car holder into the back fixed slot. (As shown in the picture below)
B. After completing the foregoing step, it is recommended that adsorbed on th e front windshield behind the rearview mirror.
C. After you confirm the location, press the fixed frame of the sucker down, and check that all components and sucker are firm again.

Screen function information - Video recording mode

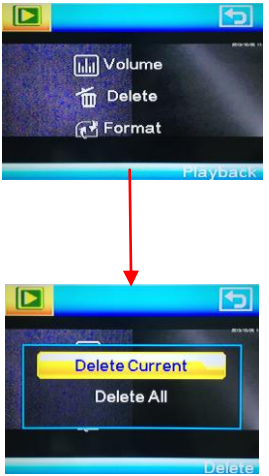
Tap the center of the screen for stop or start the recording function

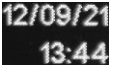
	Video recording mode		Enter the main menu
	Recording indicator (blinking)		Single / dual screen
	The current file properties (protection, write-protected, or General)		Recording sound function
	Recoding Time		File lock

	Focal Distance		Current filing date and time
	GPS		Motion Detection
	Manual Digital Zoom Zoom in / Zoom out		

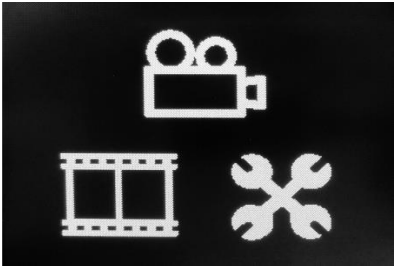
Screen capabilities information - file playback mode

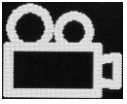
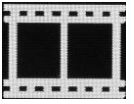
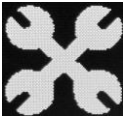
Playback - Delete



	File playback mode		Previous/Rewind
	Current file number		Next/ Fast Forward
	File Locked		Play / stop
	Enter main menu		Play/Pause
	Current archive video resolution		Delete options
	Current filing date and time		

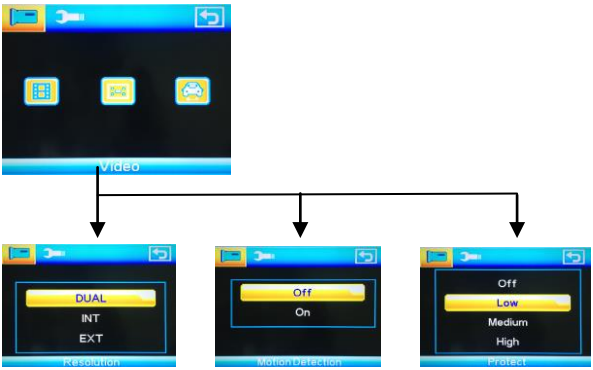
Main Menu



	Rec mode		Playback
	Setup		

System setup

(1) Video set

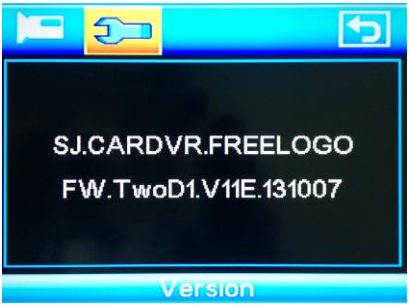


Lens Selection: Two lenses、front lens and rear lens.	Motion Detection: When device detected a movement in front of the lens, it will record for a minute if that is turn on	Protect: Adjust the sensitivity of G-sensor and it will detect the strength of the car's collision

(2) General setup

Version

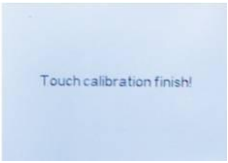
After the firmware version show up, click the screen to go back to setup menu. (Depending on the actual version)



Touch Calibration

The following steps can be corrected if the touch screen is not accurate.

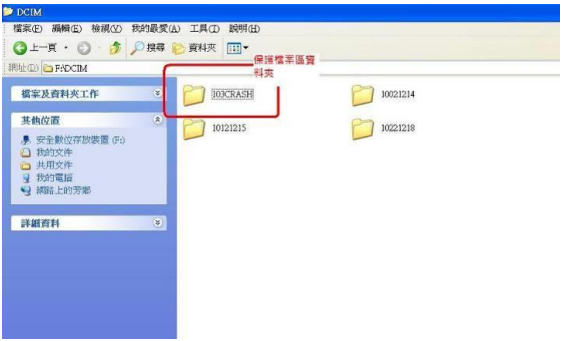
Step 1 Step 2 Finished



An emergency force to protect

This device has G-sensor automatic collision detection, to start the function of file re-recorded protection, and provides user manual touch emergency protecti on; if you press the function keys in the video recording mode, there is a ke y graphic appears at the top left corner of the screen. Emergency protection fi le length is "the recording video length now + 30 seconds after triggered the protection mechanism"

The fie will not be covered by recycle recording and it’ ll save in its own s ubstantive file folder-「CRASH」 (As shown below)



G-Sensor Gravity sensor: automatically detects collisions with vehicles forced to protect files

In the system set up > video settings options,G-sensor (accelerometer) feature defaults to "" (Which means open and is a general sensitivity), the practical effect is as follows:

(1) Automatically record unexpected events, log files, file protection mechanism set out in the former.

(2) Sensitivity may change according to the condition, such as high or low sensitivity, to facilitate the induction value changes automatically detects the collision.

Link TV output video audio

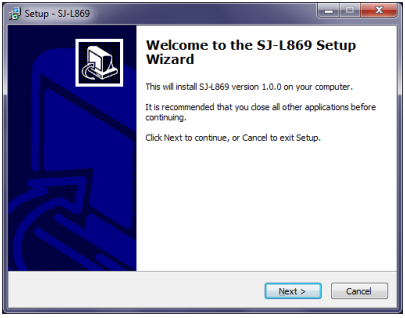
AV audio output cable (optional), based on the following icon to connect, be noted that the link is completed, the host is no picture will be displayed on the screen.

Installation Steps

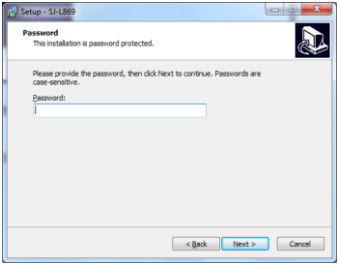
1. Execute the Setup file in CD

, open the setup interface, and click Next.

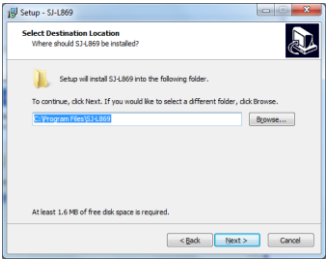
2. Executethe Setup file in CD, open the setup interface, and click next.



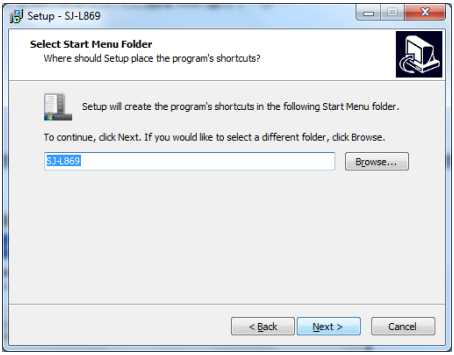
3. Enter the password 「sja」 with lowercase and click Next.



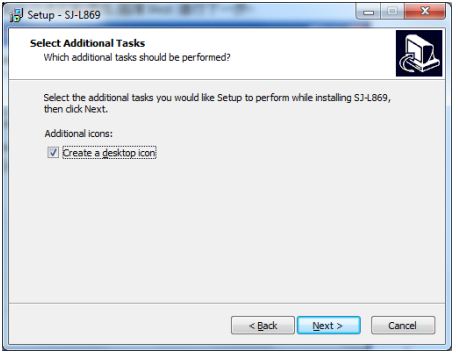
4. You can also select the destination location and click Next.



5. Install it inthe following Start Menu folder, You can designate any name you like, set it as SJ-L869, and click Next to continue.

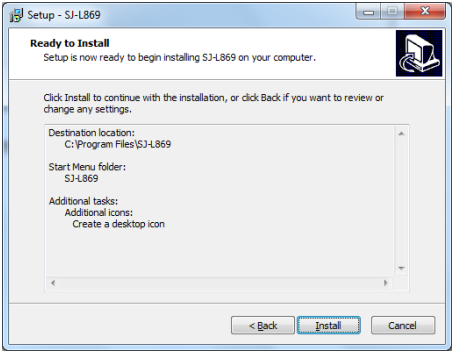


6. Create desktop icon, and click Next.

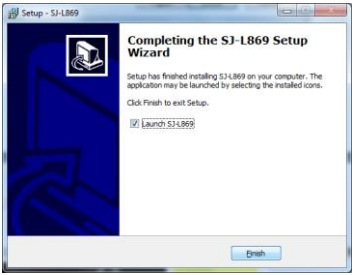


7.

Click install to continue with the installation.

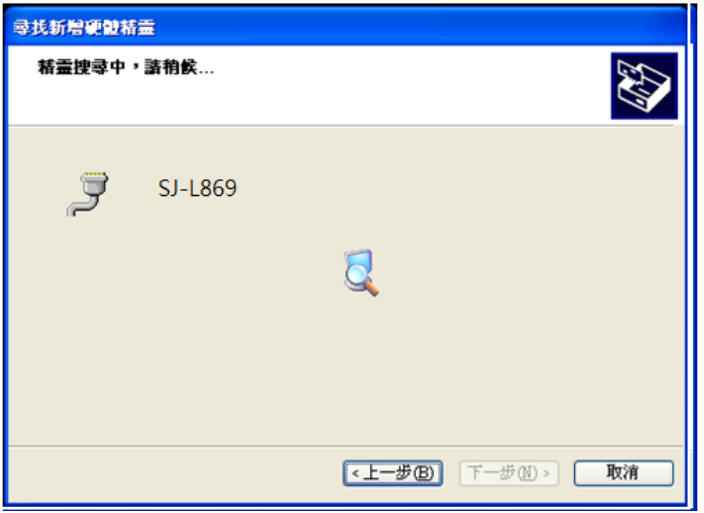


8. Click Finish to exit Setup.



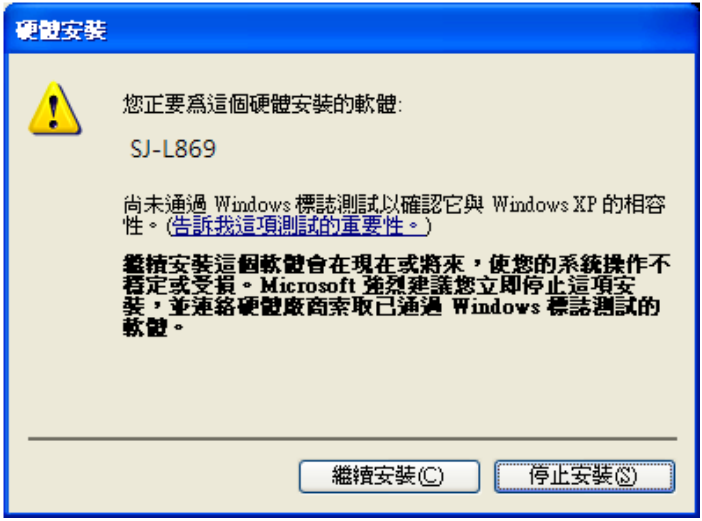
9. Link the set-up port of SJ-L869 by USB extension cable, the computer would search Driver automatically. Click automatic set-up software to continue.

10. Waiting for searching.

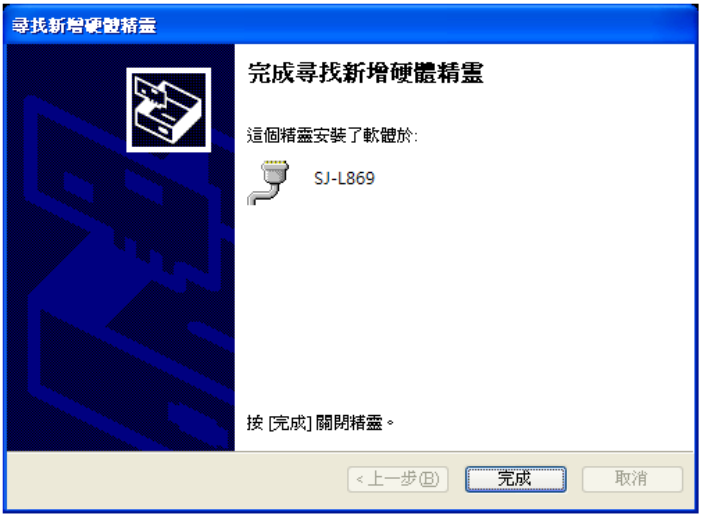


11. Select SJA-SJ-L869 in the list and click Next.

12. Click keep setting.

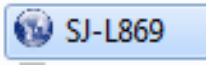


Click Finished, you can find the execution files on desktop, click it to enter the setting

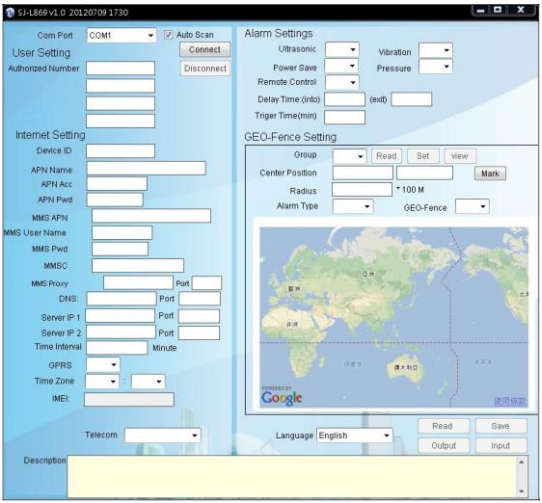

尋找新增硬體精靈
完成尋找新增硬體精靈
這個精靈安裝了軟體於:
SJ-L869
按 [完成] 關閉精靈。
< 上一步(B)
完成
取消

Software Setting

Please install the file of dotNetFx40 in the CDif you can use software settings.

Run the “SJ-L869.exe” 

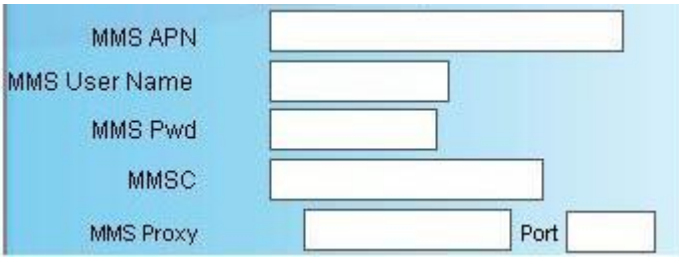
Connect the USB extension cable to SJ-L869 and your computer.



Multimedia Message Setting

SOS、siren will send a multimedia message to the phone number you register.
You have to finish the multimedia register. The message setting is different according to different telecommunications

Please acquire the correctsetting with the SIM card telecommunications.



How to Set

1. Click “Connect”

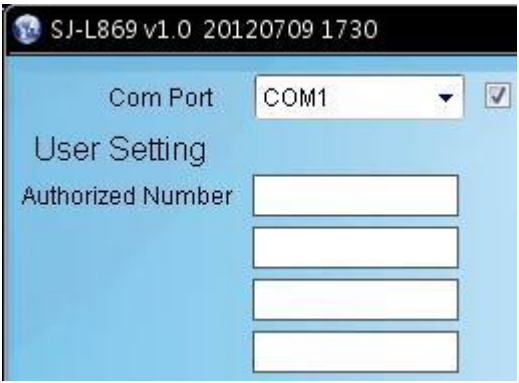
2. Key in the SIM card settingmobile number in authorized number No.2 /No.3/No.4
3. Click “Set” to save your personal setting
4. Click “Disconnect”

※You can click the list to find the SIM card telecommunication and use the setting built in multimedia message setting.

Authorized Number

Security alarm、SOS alarm、Low battery alert SMS and SD Card warning SMS will be sent to the authorized number

Only authorized number can change the L869 setting via SMS. The unauthorized number will not get any reply from L869



How to set

1. Click “Connect”
2. Enter your mobile phone number

3. Click “Set” to save your personal setting
4. Click “Disconnect”

SOS number table

Function	顺序
Ultrasonic/ Air pressure / Vibration	Send to the 1st.2nd.3rd.4th authorized number
SOS-message	Send to the2nd.3rd.4th authorized number
Without Micro Card	Only send to the 1st authorized number
Low battery warning	Only send to the 1st authorized number
APN setting error	Only send to the 1st authorized number

SOS – Send MMS Message

Press SOS button on the remote controller to make vide call to authorized number.

The L869 will call to second authorize number first.

If second authorized number does not pick the phone, L869 call next (third) authorized number.

Priority call: Authorized number NO.2-> NO.3-> NO.4 X 3 rounds

After pressing SOS button, the L869 will take two pictures.First, Send MMS message included picture to SOS number.Second, sending a message included Google Map link, the user can see the pictur e taken by AK49 and location in real time.

GPS real-time position tracking via mobile

Send SMS to the L869get the location map.

Send LOCATION to the L869

L869 reply a SMS "TRACKING PLEASE WAIT" message first then send second SMS message which is including map link to the user

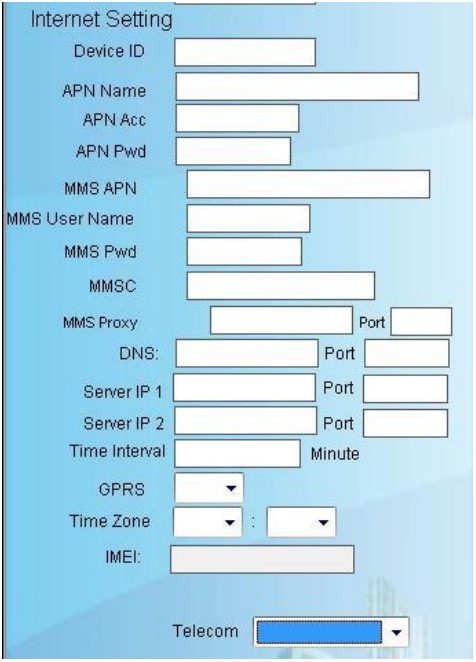
※It can only request the location of L869 by SMS of SOS reply number.

GPS real-time position tracking via server

L869 sends data to the remote server by GPRS continuously.

User can see the real-time status of SJ-869 on the server

※Before it work, please confirm that the CPRS of your SIM card has been activated with the telecommunication.



How to set

1. Device ID

2. Name an ID for the device. The device ID will be show on Server.

   2-12 bits upper and lower case English letters allowed.

3. APN Name

   Input APN of the SIM card to activate the GPRS.

   Please contact your SIM card provider to get the APN.

4. APN Acc/Pwd

   Put in APN Username and Password of the SIM card to activate the GPRS.

   Please contact your SIM card provider to get the APN Username and Password

5. DNS (Domain Name System)

Put in your DNS name of the server. Device will send the GPS data to the server.

If DNS link is failed or column is empty, device auto-connect to Server IP_1

Device server connection priority DNS > IP 1 >IP 2

6. Server IP_1

Set an IP address and port for your server.

If Server IP_1 link is failed or input column is empty, device auto-connect to Server IP_2

Device server connection priority DNS > IP 1 >IP 2

7. Server IP_2

Set the backup IP address and port for your server. The server IP_2 will assign an IP address to the device, when it received a connect request.

Device server connection priority DNS > IP 1 >IP 2

8. Time Interval

Define the time interval of the GPRS transmission.

Setting range is from 001 to 120 Minutes EX: 001 . Send data to server per one minute

If you don’ t know the setting of APN, account and password in your SIM card, you can try to click the setting built-in the list of telecommunication.

Security Alarm

Press the “Security key” on the remote controller to activate the security system

If one of security sensor has been triggered, the L869 will send a picture to authorized number to notice the car owner while detecting any unusual invasion. Authorized number pick the phone call and press key “5” to confirm the call to see the video

How to set

1. Connect
2. Start the sensor you want to use, ultrasonic,air pressure orvibration.
3. Save setting

※You have to complete MMS Message Setting before Alarm Settings.

Security Alarm sensitivity

You can change the sensitivity of the sensor by adjusting the VR

Right turn is sensitivity high, Left turn is sensitivity low

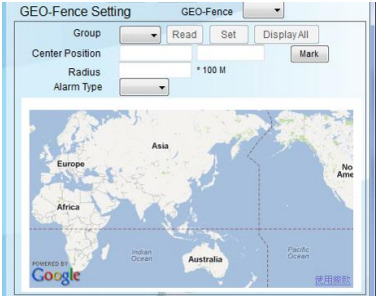
Time Zone

Set your time zone in your area

Geo-Fence

GEO-Fence is a virtual perimeter for a real-world geographic area. You can set 5 GEO-Fences for the L869. Geo-fence can be a predefined set of boundaries by user; the boundaries could be set from 100 meter to 25.5 KM.

If you come into or out of the Geo-fence (boundaries), L869 will send a message "GEO-Fence ALARM" by SMS to user. Also, it sends alert to remote server if GPRS is available



How to set

1. Click to connect
2. Enable Geo-Fence

   ON: Activated the GEO-Fence function

OFF: Disable the GEO-Fence function

3. Select the Group 1- 5

4. Choose your location on the Map

Map Zoom in

Double click mouse left key or Mouse scroll wheel forward

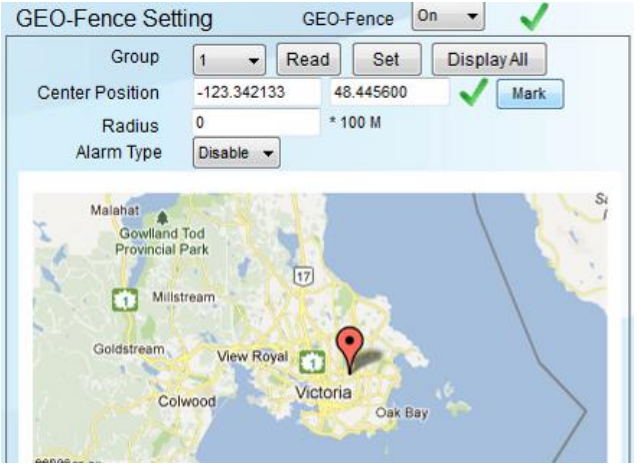
Zoom out

Double click mouse right key or Mouse scroll wheel backward

5. Mark your location

Click a location that you wanted on the map, and you can see a red balloon on it.

Click “Mark” key to request the latitude and longitude of the marked position on the map and display at Center Position column.



6. Define the Radius of your location

   Define the radius of marked position

   Define range from 0 to255 (per 100 M).

   Put 3 digital numbers to define the radius of the GEO-Fence.

   EX: 100 = 10 Km

7. Alarm Type

Disable: Disable this group

Enter: when enter this area alarm

Leave: when leave this area alarm

8. Set

Set the GEO-Fence range

9. Click view

Display all group setting to ensure you get the all Geo-fence you needed

10. Click the set Save

Cellular Positioning

When L869 is indoor or the GPS signal is too weak, L869 will use base station to position and send based station information to the ALARM number. Use the based station position, it will be a range area not a position location.

Low-voltage alert

The Low battery SMS will be sent to first Authorized number.

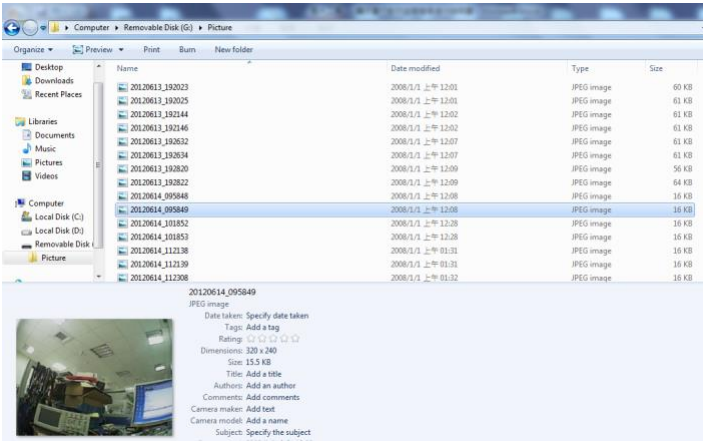
L869 detect the voltage of the battery to make sure device work well. When the voltage of the battery is low, L869 sends the SMS immediately to alert the authorized user.

Photo shot

Photo shot

When SOS or Alarm activated, the external cameras will totally take two photos.

You can find your photo in Picture folder in the micro SD card



※When the micro SD card memory is 80 % full, the L869 will send a SMS message to the first authorized number.

SMS Configuration

Authorize number

Security alarm、SOS alarm、Low battery alert SMS and SD Card warning SMS will be sent to authorized number

SMS: AUTHOR:number

Use “/” to input more number. 4 sets maximum

EX: AUTHOR:0912345678/0923456789/0913673079/0913654679

L869 reply AUTHOR:0912345678/0923456789/0913673079/0913654679 ok

Location

Check the current location the L869. L869 will send a Google Map link to the SMS sender

SMS: **LOCATION**

L869 reply **“TRACKING PLEASE WAIT”** and Google Map link

Security alarm on

Activate Security mode.

SMS: ALARM ON

L869 reply: ALARM ON ok

Security alarm off

Deactivate Security mode.

SMS: ALARM OFF

L869 Reply: ALARM OFF ok

ReSeT

Erase the setting of the L869

SMS: ReSeT

AK Reply: ReSeT ok