

**GSM/GPS**  
**Car Tracking Alarm**

**USER MANUAL**

Ver: 1.16

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Ver : CAT5: HW-V1.3 SW-V1.16 EN

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# INTRODUCTION

## Functions and Features

### Application:

Protect all type of cars, trucks, taxi, jeeps as well as other automobiles.

### Position and tracking

#### ◆ Dual location:

Locate the vehicle through both GPS positioning and GSM base station

- ◆ Query location address by mobile-phone or on computer.
- ◆ Real-time or pre-set time tracking by SMS/GPRS;
- ◆ Global tracking : Web-based center with Google-earth or Google-Map support and clear satellite image view

### Anti-theft functions

- ◆ Door open/ Acc on/car vibration/car moving /power down Alert
- ◆ Alert will be reported to the preset phone by auto-dial and SMS.
- ◆ Switch on/off the engine remotely by phone/SMS

### Anti-robbery functions

- ◆ Built-in Emergency Alert(SOS) button
- ◆ Monitor the sound in the car remotely
- ◆ Stop the engine or cut off oil supply remotely

### Simple Operation

- ◆ Voice system and SMS remote control
- ◆ Lock the door automatically when arming and unlock when disarming.  
The user can choose between unlock or dis-unlock when ACC switches off.

### Other useful functions

- ◆ With backup battery:  
After Power Off Alert, the back-up battery will supply power.
- ◆ Auto-arming function: choose on/off.
- ◆ The sensitivity of the vibration sensor can be adjusted
- ◆ Lights flash and sound reminder

## Technical Specification

- > GSM Working Frequency: 850(Optional) /900 /1800 /1900MHz
- > GPS(SiRFstarIII chipset) : Frequency: L1, 1575.42 MHz.  
Minimum signal tracked: -159dBm
- > Temperature: Working Temp -20°C ~ +60°C
- > Humidity: 20—95%
- > Cable type  
GSM Antenna: Gain: 3dBi Cable Length: 3-5meters Connector: SMA  
Portable antenna: Gain: 2dBi Height: 5cm Connector: SMA
- > GPS Antenna: Voltage: 3V Cable Length: 3-5 meters Connector: SMA
- > Remote control: Working frequency: 315Hz/433MHz.  
Code: 1527/2240 study code  
Working Voltage: 12V (27A 12V dry battery)  
Control Distance: 20-100M
- > Mainframe Power supply: 12 or 24V DC
- > Backup battery: Poly-Li battery, 600mAh 3.7V
- > Mainframe Dimension: 125x108x26mm
- > Weight: G.W.:1.45Kg/set (including accessories)  
Package dimension: 285\*250\*90mm  
Export carton dimension: 520\*295\*480mm (10PCS)

## Safety Instructions

- > Please do not use the device in the areas where wireless device are prohibited.
- > Please use the accessories in the package, such as the antennas and relay. Don't use accessories produced by other manufacturers or different models. We will not be held responsible for any problems caused by using accessories of other manufacturers.
- > Please install the system by professional.

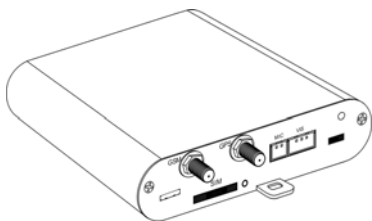
# ACCESSORIES

## User Necessaries





1. 1-3 mobile phones (**Note:** with SMS functions.)
2. A GSM SIM card for the devices(SMS/GPRS functions and enough balance)

## Basic components


1. Main Unit



2. Remote control: Maximum 3pcs

-  Arm/lock the car, when arming the fore-lights flash and siren rings once
-  Unarm/ unlock the car. when disarming the fore-lights flash and siren rings twice; if arming by  silent arming key, the siren will not ring.
-  Silent arm key. Press it, the device switches into armed mode without siren ringing.

On silent arm mode, if the alert is triggered, the siren will not ring.

-  Search for the car: activate car lights and siren to search for car. the siren will ring for 3 beeps.

3. GSM antenna



4. GPS antenna



5. Vibration sensor  
(Adjustable sensitivity)



6. Microphone (Monitor)



7. Siren



8. 20 PIN connection wire



9. LED indicator



10. Stop Relay

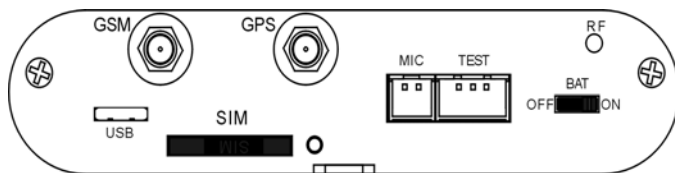


11. SOS button



## INSTALLATION

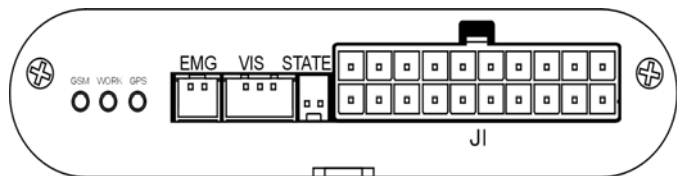
### Panels & Sockets



**GSM:** GSM Antenna    **GPS:** GPS Antenna    **RF:** RF-Antenna

**USB:** load-down data    **SIM:** SIM Card Slot    **MIC:** Monitor

**TEST:** Socket: for factory use only    **BAT:** Backup Battery Switch

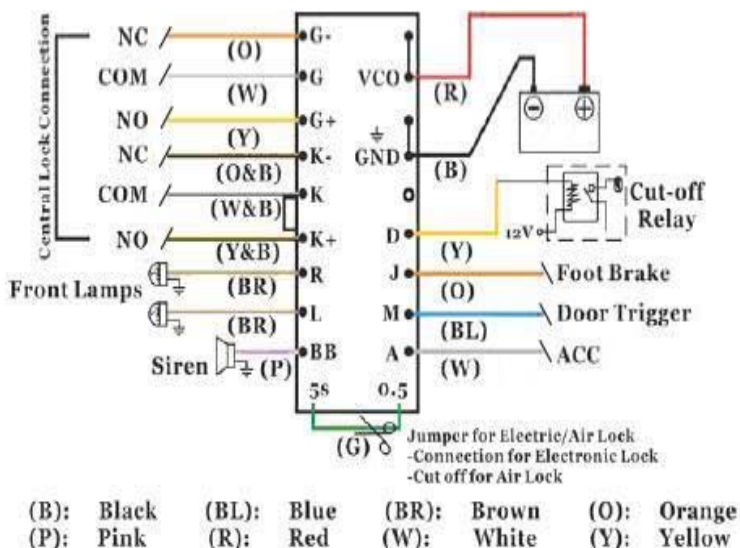


**EMG:** SOS Button      **VIS:** Vibration Sensor      **STATE:** LED Light

**J1:** 20PIN Connection wire socket

## Installation Process

### 1. Connect the Central Lock to 20 PIN connection wire



**1.1 Central lock :** Choose installation of different central lock and connect to G-, G, G+ and K-, K, K+ of the 20pin controlling wires

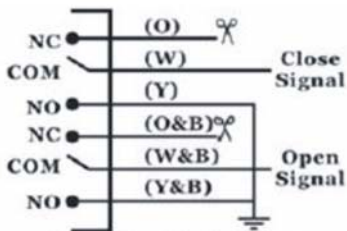


Fig1: Negative Trigger

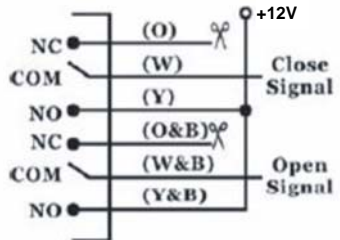


Fig2: Positive Trigger

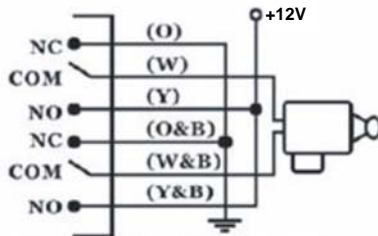


Fig3: Negative & Positive Trigger

## 1.2 Connect to detecting signal

- (1) J---Foot brake wire
- (2) M---Door trigger wire
- (3) A---ACC (Igniting switch)

## 1.3 Connect to controlling signal

- (1) R,L ( 1PIN each ) ---Left/Right lamps wires
- (2) BB ---Siren
- (3) D-----the yellow wire of Relay;  
12V+ --- the white wire of the relay.

Cut the On/Start/Oil line --- connecting two green wires in

**Note:** Three connection mode :( after sending "stop")

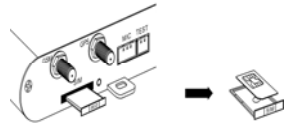
1. Into start line: after turning off engine, can't start again.
2. Into ON line: engine turning off right-away
3. Into OIL line: engine turning off after 1-3mins.

## 1.4 Power supply: VCO and GND --- Power supply

**Note:** Green wire---- (spare)



**2. SIM Card:** press the yellow button to open the slot and put the sim in.



**3. GSM**---GSM Antenna Installation

**4. GPS**--- GPS Antenna Installation

**5. MIC**--- Microphone (monitor) installation

**6. EMG**--- Connect SOS button wire

**7. VIS**--- Connect Vibrator sensor

**8. STATE**---Connect the LED wire

**9. Plug** the 20PIN into J1, the “WORK” light starts flashing.

**10. Slide** the battery switch to “ON” position

**11. Fix:** After installation, check installation of all wires, fix them firmly.

## Instructions before Use

### 1. LED indication:

After installation and power on, the system shows the status:

GSM LED: Flashing fast: indicates that GSM have not registered

Flashing slowly: indicates that GSM works well.

GPS LED: It is on indicating that GPS signal is available.

WORK LED: It flashes to indicate work normally.

**2. Factory default setting:**

|                                |         |
|--------------------------------|---------|
| Recipient:                     | Non     |
| User Password:                 | 1234    |
| Status:                        | Unarmed |
| Time Zone:                     | +/-0000 |
| Shake Alert:                   | On      |
| Unlock while ACC turning off : | On      |
| Auto-arm:                      | On      |
| Power alert:                   | On      |
| Move Alert:                    | Off     |
| Over Speed Alert:              | Off     |

**3. Battery:** Auto-charge when it connects to power supply.

**4. GSM/GPS ANT:** Place the ANT in suitable area to get signal well.

# OPERATIONS

## SMS Operation:

User can setup, control the system and query the status of the car by sending SMS command via any mobile-phone.

The pre-set recipients will receive the alert SMS and call.

## SMS Format: \***[User PASSWORD]**\***[COMMAND]**#.

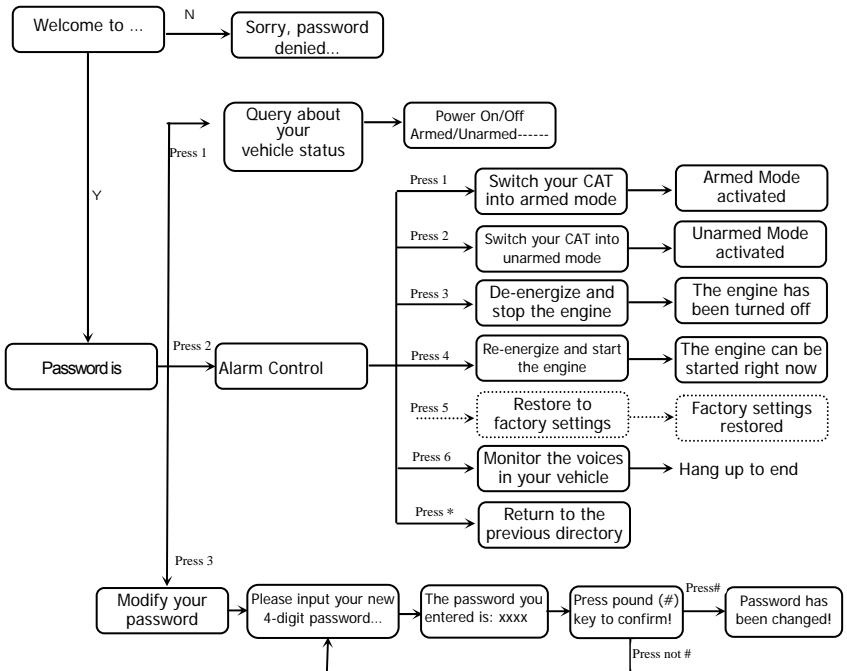
**Note:** > User Password is 4 digits or letters in SMS and is abbreviated to: UPWD

> Send commands by **any** mobile phone via UPWD

> the command can be **capital or lower case** letters

**VOICE OPERATION:** Dial the device; after 4 beeps, you can operate the device by following the voice prompt.

**Note:** The password of Voice operation is the same as in SMS operations.



## 1. Alarm Setup

### 1.1 Set up recipient A, B and C

Send the SMS to the device:      Set successfully, the reply SMS:

\*UPWD\*AXXXXXX\*BXXX  
XXXXX\*CXXXXXXXXX#

Armed/Unarmed;A:XXXXX,  
B:XXXXXXXXX,C:XXXXXXXX;

**Change or Cancel recipients:** re-set new recipients.

**Note:** ① A, B, C indicates the recipients A, B, C.

xxxxx...indicates the recipients' mobile phone number. Max: 20 digits.

② "+country code" should be added when SMS format requires

SMS Format: + Country Code + mobile phone number.

③ Recipient number is blank if you do not set up it.

**Exp:** Recipient A,C setup: \*1234 \*A+8613666504824\*B\*C+8613666502528 #  
(+86 refers to China code; 136xxxxxx refers to Recipients mobile number)

### 1.2 Set up Time-zone

Send the SMS to the device:      Set successfully the reply SMS:

\*UPWD\*GMT+/-xxxx#

GMT+/-xxxx Setup OK!

**Note:** '+' is east zone; '-' is west zone

**Exp:** East 8 zone (GMT+08:00), the SMS should be \*1234\*GMT+0800#


West 3:30 zone (GMT-3:30), the SMS should be \*1111\* GMT-0330#

## 2. Basic Operations

### 2.1 Arm the Device:

- ◆ On armed mode, the state LED is on.
- ◆ While arming, the doors are auto-locked.

#### A. Arm the system manually:

> Press  key on the remote control, the siren sounds once.

> Press '🔔' key: the device switches into armed mode. But the siren is turned off. if alert is triggered, the siren will not ring.

- B. Auto-Arm:** If Auto-arm function on and system status is unarmed, the door is closed and ACC off, the system will switch to armed mode automatically after 2mins.  
For convenience to operate, the auto-arm function can be turned On/Off by SMS.

**Auto-arm off:**

Send the SMS:

**\*UPWD\*Aoff#**

SMS replies:

**Auto-arm off !**

**Auto-arm on:**

Send the SMS:

**\*UPWD\*Aon#**

SMS replies:

**Auto-arm on !**

**Note:** > On unarmed mode, if someone in the car with the door closed and ACC off, the system will auto-arm.

> When auto-arm is valid, the vehicle accidental auto-armed at some place of poor GSM signal, you may not open the door via SMS or phone voice.

**C. Arm by SMS:**

Send the SMS:

**\*UPWD\*S#**

SMS reply:

**Armed;ACC:on/off;Door:close/open;LAC:xxxxx;CID:xxxxx;Time:xx-xx-xx xx:xx:xx Speed:xxxkm/hS/Nxx.xxxx W/Exxx.xxxx**

**D. Arm by Voice Operations:** Refer to: **Voice Operations**(page 9)

**Note:** > If door is opened, the system **can be** armed; then "Door open alert" will be triggered.

> The doors are auto-locked when arming the system.

> On armed status, the engine can not be started.

## 2.2 Disarm the Device:

- ◆ On unarmed state, the state LED is off;
- ◆ While disarming, the doors are auto-unlocked.

### A. Disarm manually:

Press '■' key on the remote control, the device is disarmed.  
The siren will sound twice.

### B. Disarm by SMS:

Send the SMS:

**\*UPWD\*C#**

SMS replies:

Unarmed;ACC:on/off;Door:close/open;LA  
C:xxxx;CID:xxxx;Time:xx-xx-xx xx:xx:xx  
Speed:xxxkm/h S/Nxx.xxxx W/Exxx.xxxx

### C. Disarm by Voice Operations ( Refer to: Voice Operations)

- Note:** > On Unarmed Mode, if the door is open, the R/L lamps light **5secs**.  
> If ACC-on, pressing the footbrake to lock the doors once every time opening the car door.

## 2.3 Modify Password

### A. By SMS:

Send the SMS to the device:

**\*UPWD\*Exxxx#**

Set up successfully, it replies:

**Password has been changed!**

**Note:** xxxx refers to the new PASSWORD. It is composed of 4 ASCII codes.  
Factory default: 1234.

### B. By Voice Operations: Please refer to Voice Operations

## 2.4 Shake Alert ON/OFF

### Off:

Send the SMS to the device:

**\*UPWD\*N#**

Set up successfully, it replies:

**Shake Alert Off!**

**On:**

Send the SMS to the device:

**\*UPWD\*H#**

Set up successfully, it replies:

**Shake Alert On!**

**2.5 Unlock On/Off:**

On 'Unlock on' state, while ACC is off, the door of the vehicle auto-unlock;

On 'Unlock off' state, when ACC is off, the door of the vehicle doesn't unlock.

**Off:**

Send the SMS to the device:

**\*UPWD\*UL0#**

Set up successfully, it replies:

**Auto Unlock Door Off!**

**On:**

Send the SMS to the device:

**\*UPWD\*UL1#**

Set up successfully, it replies:

**Auto Unlock Door On!**

**2.6 Power Off Alert on Unarmed On/Off:**

Power Off alert is valid on armed state, But can choose Power Off Alert On/Off on unarmed mode:

**Off:** ( Power off alert is valid only on armed status.)

Send the SMS to the device:

**\*UPWD\*PW0#**

Set up successfully, it replies:

**Power Off Alert Valid  
On Armed**

**On:** ( Power off alert is valid at any time.)

Send the SMS to the device:

**\*UPWD\*PW1#**

Set up successfully, it replies:

**Power Off Alert on !**

## 2.7 Immobilize / Relieve

### 2.7.1 STOP the car after sending command

#### A. Enforced-off by SMS

Send the SMS to the device:

Set up successfully, it replies:

**\*UPWD\*STOP#**

**Engine will be turned off!**

**Note:** > After "stop" command valid, the On/Start/Fuel wire will be cut off.  
> To restart your engine, you will have to Relieve 'STOP' command.

#### B. Immobilize by phone :( Refer to **Voice Operation**)

### 2.7.2 Delay to stop the car

Sending SMS:

Set up successfully, it replies:

**\*UPWD\*STOPD#**

**Engine will be turned off!**

**Note:** When the command is sent, the car will not stop. After engine off, can not be restarted again; To restart your engine, you will have to send Re-energize SMS command to the device.

### 2.7.3 Re-energize By SMS:

A. Send the SMS to the device:

Set up successfully, it replies:

**\*UPWD\*K#**

**Relieve 'STOP' & Unarmed!**

B. Relieve by phone: (Refer to Voice Operations)

## 2.8 Move Alert on/off :

On armed Mode, if the car moves over a certain range, the device will send a 'Move alert' SMS to the recipients.

### On:

Send the SMS to the device:

Set up successfully, it replies:

**\*UPWD\*MOVExxx#**

**MOVExxx Alert On!**

**Note:** xxx : 300~999. It indicates that the alert range is a circle, the center of which is the parking position and the radius is xxx meter.

### Off:

Send the SMS to the device:

\*UPWD\*MOVE000#

Set up successfully, it replies:

MOVE Alert Off!

## 2.9 Over Speed Alert On/Off

Over speed Alert: when this function is on, if the car drives over the speed limit, alert SMS will be sent to recipient A.

### On:

Send the SMS to the device:

\*UPWD\*SPDxxx,SS#

Set up successfully, it replies:

Over Speedxxx Alert On!

**Note:** xxx: 020~999, min speed is 20Km/H; max speed is 999 Km/H.  
If xxx is less than 020, "Over speed Alert" will not be triggered  
ss: 01~99min, indicates the interval of speed detecting.

### Off:

Send the SMS to the device:

\*UPWD\*SPD000#

Set up successfully, it replies:

Over Speed Alert Off!

## 2.10 Resume to Factory Default

### A. By SMS:

Send the SMS to the device:

\*UPWD\*V#


Set up successfully, it replies:

Factory Default Restored!

### B. By phone :( Please refer to **Voice Operations**)

**Note:** the command **can not** change the state of "power off alert"

## 2.11 Search for car

A. Press  key on the remote controller. Your car light will flash and the siren will ring seconds.



## B. By SMS:

Send the SMS to the device: \*UPWD\*T#

**Note:** After sending the command, the device will not reply SMS to you, the siren will ring and your car lights will flash for seconds.

## 2.12 Wrong Message

- ◆ The password is wrong, the device will send the prompt SMS:

Key incorrect, Please confirm!

- ◆ When SMS command is invalid, you will receive the prompt SMS prompt:

Invalid command, please confirm!

## 3. Query

### 3.1 Recipients Query

Send the SMS to the device:

\*UPWD\*Y#

SMS reply:

Armed/Unarmed;A:XXXXXX,  
B:XXXXXXXXXX,C:XXXXXX;

### 3.2 Status Query

#### A. Status Query by SMS:

Send the SMS to the device:

\*UPWD\*X#

GPS is available, SMS replies:

Armed/Unarmed;ACC:on/off;Door:close/open;Power:on/off;LAC:xxxxx;CID:xxxxx;Time:xx-xx-xxxx:xx:xxSpeed:xxxkm/h;S/Nxx.xxxx W/Exxx.xxxx

- GPS fails to work, SMS replies: NO GPS

#### B. Query by voice operations :(Refer to Voice Operations)

The voice system will tell you the status.Armed/Unarmed; Power status; ACC: On/Off; Door: open/close and GPS state

### 3.3 GPS Data Query

#### A. GPS Data Query: (Format: Degree/ Minute/Second)

Send the SMS to the device:

\*UPWD\*GPSM#

SMS reply:

Time:xx-xx-xx xx:xx:xx Speed:xxxkm/h;S/Nxxdxmxxs W/Exxxdxmxxs

#### B. GPS Data Query: (Format: Degree)

Send the SMS to the device:

\*UPWD\*GPSD#

SMS reply:

Time:xx-xx-xx xx:xx:xx Speed:xxx km/h S/Nxx.xxxx W/Exxx.xxxx

#### C. GPS Data Query: (GPS Standard Format)

Send the SMS to the device:

\*UPWD\*GPS#

SMS reply:

\$GPRMCxxxxxxx

#### D. GPS Data with Google link Query

Send the SMS:

\*UPWD\*GPSW#

SMS reply:

[http://maps.google.com/maps?f=q&hl=en&q=\(-\)xx.xxxxx,\(-\)xxx.xxxxx&ie=UTF8&z=16&iwloc=addr&om=1](http://maps.google.com/maps?f=q&hl=en&q=(-)xx.xxxxx,(-)xxx.xxxxx&ie=UTF8&z=16&iwloc=addr&om=1)


**Note:** The link can be used for address query on mobile-phone or computer.

#### D. GPS fails to locate, replies query by the last valid GPS data:



SMS reply:



NO GPS!Time:xx-xx-xx xx:xx:xx Speed:xxxkm/h S/Nxx.xxxx W/Exxx.xxxx

## 4. Other Functions

**4.1 Restart the device:** Press and hold  key on the remote control for 20 seconds to restart the system.

#### 4.2 Lock/unlock door

- > ACC off: > Press  key to arm/lock the door;
- > Press  key to disarm and unlock.

- >ACC on: > Press  key to lock the door(s)
- > Press  key to unlock the door(s)
- > Jam on the footbrake to lock the door once every time of opening the door;

>ACC turning off: can choose Auto-unlock or not.

**4.3** On armed state, the engine can not be started.

**4.4** When the car door is opened on unarmed, the R/L lamps will light 5secs to prompt.

## ALERT REPORT

### 1. Alert type

| Status     | Armed   | Unarmed          | No limit                                |
|------------|---|------------------|---|
| Alert type | Shake Alert<br>Door –open Alert<br>ACC-On Alert<br>Move-on Alert<br>Power-Off Alert | Over speed Alert | Highjack Alert (SOS)<br>Power-Off Alert |

### 2. Alert Report Mode

Spot response: The GSM LED starts flashing to indicate alerts. The car light will flash and the siren will ring.

SMS report: Recipients will receive alert SMS.

Voice report: The device will auto-call recipients to report alert.

### 3. Alert Report (Note: Rec A, Rec B, Rec C stand for recipient A, B and C)

**3.1 Shake and sensor Alert:** On Armed Mode, when the Vibration is activated, alert will be reported to Recipient **A** via SMS, car lights will flash and the siren will ring.

| Shake Alert | Format  | Rec A | Rec B | Rec C |
|-------------|---|-------|-------|-------|
| Locale      | Armed Mode: voice and light caution<br>Mute Alarmed: No voice and light                               |       |       |       |
| SMS         | <b>Shake Alert;</b><br>LAC:xxxxCID:xxxx;Time:xx-xx-xx xx:xx:xx<br>Speed:xxxkm/h S/Nxx.xxxx W/Exx.xxxx | √     |       |       |
| Phone       | No  |       |       |       |

- Note:** > If the car shake continuously, alert will be sent every 30s.  
> The sensitivity of the vibration sensor can be adjusted.

### 3.2 Emergency Alert (SOS)

In emergency, having pressed the hidden SOS button, the alarm is activated and the SOS alert is sent directly to the recipients.

Firstly, Alert SMS will be sent to A, B, C; and then auto-call B; If B is not reachable, the device will continue to call recipient C.

| Highjack Alert | Format   | Rec A | Rec B | Rec C |
|----------------|--|-------|-------|-------|
| Car Locale     | Siren and lamps do not ring.   |       |       |       |
| SMS            | <b>Highjack Alert;</b><br>LAC:xxxxxCID:xxxx;Time:xx-xx-xx xx:xx:xx<br>Speed:xxxkm/h S/Nxx.xxxx W/Exxx.xxxx | √     | √     | √     |
| Phone Call     | <b>Highjack Alert</b>  |       | √     | √     |

### 3.3 Door-open Alert:

In Armed Mode, if the door is opened, the Alert will be activated.

| Door-open Alert | Format   | Rec A | Rec B | Rec C |
|-----------------|--|-------|-------|-------|
| Car Locale      | Siren and R/L lamps caution for 5~6 sec or until persistence trigger removed or system disarmed            |       |       |       |
| SMS             | <b>Door open Alert;</b><br>LAC:xxxxxCID:xxxx;Time:xx-xx-xx xx:xx:xx<br>Speed:xxxkm/hS/Nxx.xxxx W/Exxx.xxxx | √     | √     | √     |
| Phone Call      | <b>Door-open Alert</b>   | √     |       |       |

### 3.4 ACC On Alert:

In Armed Mode, if the engine is started, the Alert will be activated.

| Engine-on Alert | Format   | Rec A | Rec B | Rec C |
|-----------------|--|-------|-------|-------|
| Car Locale      | Siren and R/L lamps caution for 5~6 sec or until persistence trigger removed or system disarmed          |       |       |       |
| SMS             | <b>ACC on Alert;</b><br>LAC:xxxxxCID:xxxx;Time:xx-xx-xx xx:xx:xx<br>Speed:xxxkm/h S/Nxx.xxxx W/Exxx.xxxx | √     | √     | √     |
| Phone Call      | <b>ACC On Alert</b>  | √     |       |       |

### 3.5 Power-off Alert:

| Power-Off Alert | Format  | Rec A | Rec B | Rec C |
|-----------------|---|-------|-------|-------|
| Locale          | No  |       |       |       |
| SMS             | Power-off Alert;<br>LAC:xxxxxCID:xxxxx;Time:xx-xx-xx xx:xx:xx<br>Speed:xxxkm/h S/Nxx.xxxx W/Exxx.xxxx | ✓     | ✓     | ✓     |
| Phone           | Power-off Alert   | ✓     |       |       |

**2.6 Move Alert:** On Armed Mode, it takes effect when someone moves away from the parking lot the pre-set range:

| Move Alert | Format   | Rec A | Rec B | Rec C |
|------------|--|-------|-------|-------|
| Locale     | No   |       |       |       |
| SMS        | Move Alert;<br>LAC:xxxxxCID:xxxxx;Time:xx-xx-xx xx:xx:xx<br>Speed:xxxkm/h S/Nxx.xxxx W/Exxx.xxxx | ✓     | ✓     | ✓     |
| Phone Call | Move Alert   | ✓     |       |       |

**Note:** Move Alert will have to be switched on every time when the device is armed.

**3.7 Over speed Alert:** On driving, when the speed is over the speed limit, CAT will send Alert SMS to Recipient A

| Over speed Alert | Format   | Rec A | Rec B | Rec C |
|------------------|--|-------|-------|-------|
| Car Locale       | No   |       |       |       |
| SMS              | Over speed Alert;<br>LAC:xxxxxCID:xxxxx;Time:xx-xx-xx xx:xx:xx<br>Speed:xxxkm/h S/Nxx.xxxx W/Exxx.xxxx | ✓     |       |       |
| Phone Call       | No   |       |       |       |

## 4. Alert Management

**4.1 Interrupt Alert:** Press  key on the remote control to cancel alert.

**4.2 Monitor Alarm:** In Alert status, after the device sends alert SMS to the recipients, it will call automatically the recipient, and the recipient can press “#” to monitor the car.

**4.3 Cut off power (fuel):** When the burglar drives your vehicle away, you can stop the vehicle by SMS ('STOP' command) or by the voice prompt of the phone. (Refer to Voice Operations)

**WARNING:** This command might be very dangerous when the car is MOVING! Please BE CAUTIOUS to activate this function!

## APPENDIX

### 1. Problem and Solutions

| PROBLEMS                                 | Cause  | SOLUTIONS  |
|--|--|--|
| Remotes are locked or don't work         | the 27A battery or lose code   | > Replace with new battery<br>> Re-code the remote   |
| Password lost                            |  | >Get from the Carrier  |
| SIM card can not be accessed to network: | > No balance in SIM card.<br>> Install unsuccessfully<br>> Confirm GSM network frequency . | >Install SIMcard well<br>> Keep balance  |
| Weak GSM signal                          |  | > Increase sensitivity of antennas<br>> Check the GSM ANT connection.<br>> Put it at suitable position |
| No GPS signal                            | > Probably caused by location and weather  | > Check your antenna connection.<br>> Put it at suitable position                                      |
| No SMS received                          | > Network is busy<br>> SMS is delayed<br>> Weak signal                                     |  |
| Alert is not reported                    | >Confirm the power supply(12/24V) of the vehicle<br>>Temperature is too low                | >The device and power must be matching<br>> Work Temp over -20°C                                       |

### 2. Alert SMS Format

| Alert mode | Switch On / Off  | Alert Format                                   |
|------------|--|--|
| Shake      | Armed<br>ON: *PWD*H# ←→ Shake alert on!<br>OFF: *PWD*N# ←→ Shake alert off!                                  | Shake Alert<br>SMS to A                        |
| Door Open  | Armed  | Door open Alert<br>SMS to:A.B.C; Phone call A  |
| ACC ON     | Armed  | Engine on Alert<br>SMS to:A.B.C; Phone call A  |
| High-jack  |  | Highjack Alert<br>SMS to:A.B.C; Phone call B,C |
| POWER OFF  | Armed / or no limitation<br>*PWD*PW1# ←→ Power Off Alert On<br>*PWD*PW0# ←→ Power Off Alert valid on armed.  | Power-off Alert<br>SMS to:A.B.C; Phone call A  |
| MOVE ALERT | Armed<br>ON: *PWD*MOVExxx# ←→ Movexxx alert on!<br>OFF *PWD*MOVE000# ←→ Move alert off !                     | Move Alert<br>SMS to:A.B.C; Phone call A       |
| OVER SPEED | During driving<br>ON: *PWD*SPDxxx,ss# ←→ Over SPDxxx alert on !<br>OFF: *PWD*SPD000# ←→ Over SPD alert off ! | Overspeed Alert<br>SMS to A                    |

### 3. Operation SMS Command

| Function             | Command   | Reply   |
|----------------------|---|---|
| Recipient<br>A.B.C   | *PWD*Axxxxxxxxx<br>*Bxxxxxxxxx<br>*Cxxxxxxxxx#                    | Armed( UnArmed);A:xxxxxxxxB:xxxxxxxxC:xxxxxxxx<br>(Add '+' and nation code according to needs)  |
| Time Zone            | *PWD*GMT+/-:xxxx#   | GMT+/-:xxxx SETUP OK!   |
| New PWD              | *PWD*Exxxx#   | Password has been changed!  |
| Arm                  | *PWD*S#   | Armed;ACC:on/off;Door:close/open;LAC:xxxxx;CID:xxxxx;Time:xx-xx-xx<br>xx:xx:xx Speed:xxxkm/hS/Nxx.xxxx W/Exxx.xxxx  |
| Disarm               | *PWD*C#   | Unarmed; ACC:on/off;Door:close/open;LAC:xxxxx;CID:xxxxx;Time:xx-xx-xx<br>xx:xx:xx Speed:xxxkm/hS/Nxx.xxxx W/Exxx.xxxx   |
| Stop Car             | *PWD*STOP#  | Engine will be turned off!  |
| Cancel STOP          | *PWD*K#   | Relieve 'STOP' & Unarmed  |
| Factory default      | *PWD*V#   | Factory Default Restored!   |
| Recipient Query      | *PWD*Y#   | Armed(UnArmed);A:xxxxxxxxB:xxxxxxxxC:xxxxx  |
| Car status<br>Query  | *PWD*X#   | Armed/Unarmed;ACC:on/off;Door:close/open;Power:on/off;LAC:xxxxx;CID:xxx<br>xx;Time:xx-xx-xxxx:xx:xxSpeed:xxxkm/h;S/Nxx.xxxx W/Exxx.xxxx / NO GPS  |
| Auto-armed<br>On/Off | *PWD*AON#<br>*PWD*AOFF#   | Auto-arm ON!<br>Auto-arm Off!   |
| Unlock<br>On/Off     | *PWD*UL1#<br>*PWD*UL0#  | Auto unlock door on !<br>Auto unlock door off !   |
| GPS data<br>Query    | *PWD*GPS#   | \$GPRMCxxxxxxxx   |
|                      | *PWD*GPSD#  | Time:xx-xx-xx xx:xx:xx Speed:xxxkm/h S/Nxx.xxxx W/Exxx.xxxx   |
|                      | *PWD*GPSM#  | Time:xx-xx-xx xx:xx:xxSpeed:xxxkm/h;S/Nxxdxmxxs W/Exxxdxmxxs  |
|                      | *PWD*GPSW#  | <a href="http://maps.google.com/maps?f=q&amp;hl=en&amp;q=(-)xx.xxxxxx,(-)xxx.xx&lt;br/&gt;xxxx&amp;ie=UTF8&amp;z=16&amp;iwloc=addr&amp;om=1">http://maps.google.com/maps?f=q&amp;hl=en&amp;q=(-)xx.xxxxxx,(-)xxx.xx<br/>xxxx&amp;ie=UTF8&amp;z=16&amp;iwloc=addr&amp;om=1</a> |
| No GPS               | NO GPSTime:xx-xx-xx xx:xx:xx Speed:xxxkm/h S/Nxx.xxxx W/Exxx.xxxx |   |

### 4. Remote Control RF code Setup

