

GPS Vehicle Tracker

User Manual

For Car, Motorcycle, Truck, Bus etc



Please read the manual carefully before use, so that you can install the device correctly and activate it quickly on the internet. The outlook and true color are subject to the actual product.

1 . Accessories :



Power cable
(standard accessories)



screw & screw cover
(standard accessories)



MIC Cable
(Optional)



SOS Cable
(Optional)

2. Technical parameter

- 1) .GSM : 850/900/1800/1900 Quad band
- 2) .GPRS: Class12, TCP/IP
- 3) .Working Voltage : 9-40V DC
- 4) .Working current : $\approx 22\text{mA}$ (12vDC)
- 5) .Working current : $\approx 12\text{mA}$ (24vDC)

6).GPS locating time : Cold start≈38s (Open sky)

Warm start≈32s

Hot start≈2s (Open sky)

7).GPS Precision : 10m (2D RM)

8).Working temperature : -20°C ~ +70°C

9).Working humidity : 20% ~ 80%RH

10).Measurement : 87 (L) ×43 (W) ×14 (H) mm

3.Out look



4. Device status indicators

GPS LED Indicator - Yellow	
Solid yellow	Searching GPS signal
Flashing	GPS working normally
OFF	Sleep mode

GSM LED Indicator - Blue	
Solid Blue	No GSM signal or SIM card not be recognized
Flashing quickly (interval 0.1s)	GSM data transporting
Flashing slowly (interval 2s)	GSM working normally

Power LED Indicator - Red	
Solid Red	Working power from vehicle
Flashing (interval 1s)	Device low battery
OFF	Working power from device built-in battery

5. Installation

5.1 Prepare installation

- (1) Product Check. Open the packing box and check the device's model and accessories. If the model is wrong or the accessories not complete, please contact the dealer.
- (2) Choose SIM card. Please take dealer's advice as reference before insert SIM card.
- (3) SIM card installation. Open the device cover and SIM card holder. Then insert the SIM card and push back its holder (as follows).



- (4) Put back the front cover and screw it up.
- (5) Connect the device to the 9-24V power supply. (the red LED constant glow)
- (6) Install the device in the hidden place of the car ;

The SIM card must be with GPRS function and enough credit. If your SIM card need input PIN code when power on, please refer to the mobile phone user manual to cancel it

5.2 Installation

The GPS tracker must be installed by professional person:

- (1) Please install the device in the hidden place as followings :
 - Under Front windshield ;
 - In the front instrument panel ;
 - Under back windshield ;
- (2) Avoid being placed with signal radiators like reverse sensor ;
- (3) The device has built-in GSM and GPS antenna. Please ensure the receiving side of the device is face up and without metal cover.

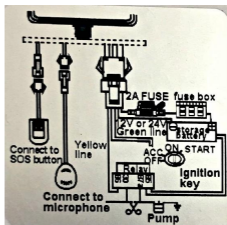
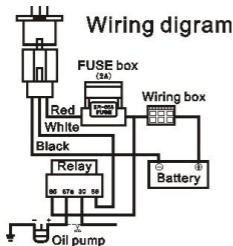
Note : The metal cover will lessen the GPS signals receiving.

6. Device wiring requirements

6.1 The device power supply is DC 9-100V. The red line is positive pole while the black line is negative pole.

6.2 The negative pole of power supply connects with ground or the metals. Please do not connect with other ground lines.

6.3 After finished the power supply wire connection, please plug the power supply wire into the device.



Optional MIC and SOS wiring diagram

7. The Device Working

7.1 Power on: The device will be powered on when detect the current. Then the three LED indicators will light on continuously. The device will upload the data to the online platform (The uploading data default interval is 10seconds). When the car is in static state for a long time, the device will switch to energy saving mode .

7.2 Power off : Pull off the power wire to power off the device.

8. User Settings

(1)Set Admin Number		
SMS Text Command	Parameter	Sample
Add Number	710#number# 711#number#	710#13500135000# 711#13800138000#
Delete Number	D01# D02#	D01# D02#
Command Description	<ol style="list-style-type: none">1) Admin number can control the oil, power and resume factory settings2) Admin number can receive the alarms call and text of vibration, over speeding, out geo-fence, etc3) SIM must display the income call number to control oil and power.4) Only two number can be set as admin number.5) Resend the command to change admin number .	
Command Feedback	Successful Setting : Add admin account 1 OK!	

(2) Check Admin Number		
SMS Text Command	Parameter	Sample
Check	901#	901#
Command Description	View the device admin number directly.	
Command Feedback	Successful Setting : Admin1:13500135000, Admin2:13800138000	

(3) Set Authorization Number		
SMS Text Command	Parameter	Sample
Add Number	101#number# 102#number# 103#number#	101#13500135000# 102#12345678912# 103#12345678913#
Delete Number	D11# D12# D13#	D11# D12# D13#
Command Description	1) Authorization Number used to control oil by SMS 2) Only three number can be set as authorization Number 3) Before change the authorization Number should delete previous number first.	
Command Feedback	Successful Setting : Add Authorization account 1 OK!	

(4) Check authorized number		
SMS Text Command	Parameter	Sample
Check	C10#	C10#
Command Description	Check the device authorization number directly.	
Command Feedback	Successful Setting : Authorization 1 : 13500135000 Authorization 2 : 12345678912 Authorization 3 : 12345678913	

(5)APN		
Text command	Parameter	Sample
APN Setting	802#username# password	1 : 802#internet#123#123# 2: 802#internet#
Command Description	APN differs according to the local telecommunication operators. For example : If APN request password , please refer to Sample1, Sample 2 for no password.	
Command Feedback	Successful Setting : apn setting OK !	

(6) Set / View SERVER HOST		
SMS Text Command	Parameter	Sample
SERVER HOST Parameter	803#SERVER # port#	803#58.61.154.231#7018#
View SERVER	CIP#	1) CIP#
Command Description	Change the IP and port when move to a new server port : 10~65535. 1 is domain and 0 is IP ;	
Command Feedback	SERVER Successful Setting : The setting of HOST NAME is successful ! HOST: SERVER PORT: 7018 CIP# Successful Setting : IP: 58.61.154.231 Port: 7018	

(7) TIMMER (Set data uploading time interval while car is MOVING)		
SMS Text Command	Parameter	Sample
TIMEER setting	730#uploading interval#	730#20#
Command Description	Time setting scope : 10~3600 seconds ; 20 means time interval, the default value is 15 seconds !	
Command Feedback	Successful Setting : Set upload move ITV 20 seconds,OK !	

(8) Alert on/off		
SMS Text Command	Parameter	Sample
Alert on Command	911#	911#
Alert off Command	910#	910#
Command Description	This command is used to set the alert on/off, in case of unknown movement or shake.	
Command Feedback	911# Successful Setting : Defence setting, OK! 910# Successful Setting : Cancel Defence setting, OK!	

(9) STATIC (Set data uploading time interval while car is STATIC)		
SMS Text Command	Parameter	Sample
STATIC	SUP# time interval#	SUP#5#
Command Description	Time scope : 1~1440minutes ; The device has 3D transmission and the default time interval is 5 minutes.	
Command Feedback	Successful Setting : Set upload still ITV 5 Mins, OK !	

(10) Cancel the continuous uploading		
SMS Text Command	Parameter	Sample
NUP	NUP#	NUP#
Command Description	This command is used to cancel sending data to the platform. If need to restore the uploading, need to reset TIMEER or STATIC Parameter	
Command Feedback	Successful Setting : Close upload gps information OK !	

(11) RELAY (Remote cut off fuel/power)		
SMS Text Command	Parameter	Sample
RELAY Parameter1	222#	222# cut off fuel and power
RELAY Parameter2	333#	333# recover fuel and power
Command Description	<ol style="list-style-type: none"> 1) RELAY control the ON/OFF of the vehicle relay; 2) Only admin number can set this parameter. 3) Only cut off the oil circuit while vehicle driving speed below 20KM/H or in static state. 4) When send the command, the vehicle speed is over 20KM/H, device will reply "please waiting" 	

Command	222# Successful Setting : Oil is cut off !
Feedback	333# Successful Setting : Oil is restore !

(12) GMT		
SMS Text Command	Parameter	Sample
GMT	801#location, time#	801#E8#
Command Description	The default time zone is Beijing time. If need change, please operate according to the above command.	
Command Feedback	Successful Setting: time zone ok!	

(13) VIBRATION		
SMS Text Command	Parameter	Sample
VIBRATION Alarm Parameter	123#2#,alarming way#	1) 123#2#1# 2) 123#2#2# 3) 123#2#3#
Set the vibration alarm time interval	V123#1#	V123#1#
Cancel vibration alarm	456#	456#
Command Description	Vibration sensitivity level is from 1 to 5 , 1 is the most sensitive and 0 is close. Alarming ways: 1 calling, 2: text , 3: call and text . Must set the admin number and receiving number.	
Command Feedback	Successful Setting:	

	shock setting, OK! way: 1 shock interval setting, 1 Mins, OK! noshock setting, OK!
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(14) OVER SPEED ALARM SETTING		
SMS Text Command	Parameter	Sample
SPEED Parameter	SSA#120# alarming way#	SSA#120#1#
Command Description	Speed range: 60-220, if not inside this range, the alarm off. Alarming way 1: call, 2: text , 3: call and text . Must set the admin number and receiving number.	
Command Feedback	Successful Setting : Speeding Alarm setting , OK!	

(15) RESET		
SMS Text Command	Parameter	Sample
RESET	930#	930#
Command Description	Reset the device	
Command Feedback	Successful Setting : Reset system, ok!	

(16)FACTORY RESTORE		
SMS Text Command	Parameter	Sample
Parameter	940#	940#
Command Description	Restore the factory setting, only admin number can set.	
Command Feedback	Successful Setting : Factory, OK !	

(17) LANGUAGE SETTING		
SMS Text Command	Parameter	Sample
LANG Parameter	LANG1# LANG0#	LANG1# LANG0#
Command Description	Set the language of command feedback, LANG1 is Chinese, LANG 0 is English	
Command Feedback	Successful Setting : Set language, OK !	

(18) WHERE (Optional)		
SMS Text Command	Parameter	Sample
WHERE	988#	988#
Command Description	Check the longitude and altitude and other information of the device	
Command Feedback	Reply with longitude and altitude, speed and IMEL.	

(19) URL		
SMS Text Command	Parameter	Sample
WHERE	666#	666#
Command Description	Check the location link of Google map	
Command Feedback	GPS!Lat:22.66349 long:114.22066, speed:000.0 T:04/19/19 13:47 Location URL: http://maps.google.com/maps?q=N22.540885,E113.95265	
(20) PARAM (Device details)		
SMS Text Command	Parameter	Sample
PARAM	886#	886#
Command Description	The command is to check the settings or the default parameter.	
Command Feedback	IMEI:351190012535936 APN : cmnet IP: 58.61.154.231 PORT: 7018 LANGUAGE: English TIMEZONE: E8 NUMBER INFOR SOS: 13500135000 ADMIN1: 13500135000 ALARM WAY: 1 BAT VOL: 12.73V	

(21) STATUS

SMS Text Command	Parameter	Sample
STATUS	902#	902#
Command Description	Designed for checking the device's working status.	
Command Feedback	IMEI: 353327022096317 Basic information VERSION: 61M-Q3_T3-HS-SLW-XY_V2.6_190402 RSSI_LEVEL: 83 APN: cmnet IP: 58.61.154.231 PORT: 7018 PROTOCOL: TCP/IP GPS information GPS moving report intervals: 20sec static report intervals: 5min GPS : UNFIXED GPS Satellites: 0 NUMBER INFOR SOS : 13632835118 ADMIN1: 13632835118 ALARM WAY: 3 BAT VOL: 12.73 V	

Optional functions of one way calling and SOS		
SMS Text Command	Parameter	Sample
One way calling	SSS#	SSS#
Command Description	Designed for checking the device's surrounding status. After send the text "SSS#" to the device SIM card number, the device will immediately call back to you.	
SOS	Press the SOS button for more than 3s, device will call the admin number immediately in circles until the call will be picked up. Note: Should set the admin number by setting "710#number#" or "711#number#" first.	

9. Trouble shooting

9.1 The device is unused or offline on the web server platform

9.1.1 First, please check the three LED working state. If possible, call the device's SIM card number to check:

- ① If the call can not connect to device and feedback the device is not in the GSM service area, please get the GSM signal first.
- ② If reminding the device SIM card is out of fee, please top up the SIM card.
- ③ If calling can connect to device, means the SIM card still have fee inside, please check with the SIM card operator that the GPRS function has been opened or not.

- ④ If the call can not connect to device and feedback the device was powered off, please take the device back to analysis as below:
- a) If the Red LED and blue GSM LED are solid light on, please check the installation status of SIM card, if installation no problem, change a new SIM card to retest.
 - b) If the Red LED is off, please check the power terminal wiring is disconnected or the power line end fuse is blown. Also can use a multimeter to measure the voltage of the main power 2P connector. If the voltage is normal, please send the device to the factory for repair.

9.1.2 Please check there is how many offline devices in the same area, in order to judge whether its the SIM Card operator's network problem or not.

9.2 When GPS cannot receive the signals, please drive to a open sky place, and ensure there is no metal cover on the device.

9.3 When the device cannot receive the GSM signal, please check the SIM card installation. If the GSM signals cannot reach your location (such as the basement), please drive to a open sky place.

9.4 The red LED can not power on. Check fuse, if its broken, please replace the fuse.