

GPS tracking system User's manual

Model No: VC-368GGT

****Please read this manual carefully before you installing & using this product****



▲ Installation instruction:

◆ Product assembly listing

1. Mainframe x1;
2. GSM Antenna: 900/1800Mhz x1;
3. GPS Antenna: 3V DC x1;
4. 12Pin cable with SOS button & LED status lights x1
5. Relay, 12V DC/40A, x1
6. Manual x1

Services IP address: 203.80.253.134

◆ Circuit Installation:

1、 Mainframe diagram:



2、 Circuit installation instructions

Series No.	Color	Function	Series No	Color	Function
1	Red	+12V power supply input	7	Purple/White	Lock signal detect
2	Green	Help test/connect to SOS button	8	Brown &White	Unlock signal detect
3	Green/Yellow	Help test/connect to SOS button	9	Brown	Turning lights signal detect
4	Grey/White	LED signal output“+“	10	Yellow	Engine power cut off output
5	Blue	Car door open/close (detect)/connect to the GND car door is open	11	White	ACC state (on/off detect)
6	Black	LED signal output “_“	12	Black	- 12V power supply input

▲ **Setting**

In order to install this VC-368GGT, Vtec’s suggestion is, please get the advice from the technician or the professional. All the VC-368GGT specifications are clearly stated in this user manual.

After installed the 12 pins plug and inserted the SIM card, please pull out the Psw (Psw is too prevent the wastage of battery, pull in= battery off, pull out Psw = battery on)

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◆ In order to know the VC-368GGT working status, please refer to LED flashing condition.

1. LED keep lighting over 10 seconds: VC-368GGT failure activated or SIM card wrongly input. Please re-insert the Psw and pull out once again.
2. LED flashes once in every 8 seconds: GPS signal is successfully received, GPRS is deactivated, VC-368GGT is under normal working status
3. LED flashes twice in every 8 seconds: GPS signal is successfully received, GPRS is activated, VC-368GGT is under normal working status
4. LED flashes 3 times in every 8 seconds: No GSM signal has been received. Please double check the GSM antenna and SIM card
5. LED flashes 4 times in every 8 seconds: No GPS signal, GPRS is deactivated. Please double check the GPS antenna
6. LED flashes 5 times in every 8 seconds: No GPS signal. GPRS is activated. Please double check the GPS antenna
7. LED flashes in every 8 seconds: Alarm off
LED flashes in every 3 seconds: Alarm on
8. LED keeps flashing: SOS button has been pressed. VC-368GGT has sent out the SOS details to the center
9. LED is under off status: No power supply to VC-368GGT

◆ Simple setting and Usage

SMS Setting the devices to easy description:

Sending SMS: Means the use mobile phone can receive & send messages normally (SIM card have the balance)

SIM card No—VC-368GGT SIM card no

Center password--654321

ID—VC-368GGT code (every device will have only one ID code)

IP address--203.80.253.134

GPRS connects point--GPRS connect point is the APN (access point name). This GPRS connects point is provided by the GSM network supplier

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1. Tracking mode

Sending SMS: Send MDSA654321 to the SIM card no. You may receive the reply text message from VC-368GGT: !WT83L1088C2922V. !WT83L1088C2922V means tracking mode successfully set. GSM signal status is 22.

- After activated this tracking mode, VC-368GGT won't detect the car up-lock and down-lock
- If the tracking/tracing times have been set with 20 seconds, VC-368GGT will automatically sends the car details to the center

2. Alarm mode setting

Sending SMS: Send MDSS654321 to the SIM card no. You may receive the reply text message from VC-368GGT: !WT83L1088C1822V. !WT83H1088C18 means alarm mode successfully set. GSM signal status is 22. You may either set this alarm mode or the above tracking mode, both of the modes can't be set together.

- After activated this alarm mode and GPRS function, every ACC_ON in after 5 seconds, and every ACC_OFF in after 3 seconds, VC-368GGT will automatically sends the car details to the center.
- If the tracking/tracing time have been sets with 10 seconds, and if VC-368GGT is in alarm on status, VC-368GGT will automatically sends the car details to the center in every 20 minutes.
- If ACC_OFF and if VC-368GTT is in alarm off status, VC-368GGT will automatically sends the car details to the center in every 80 seconds.
- If ACC_ON and if the car speed is < 20Km/H, VC-368GGT will automatically sends the car details to the center in 60 seconds.
- If ACC_ON and if the car speed is 40Km/H, VC-368GGT will automatically sends the car details to the center in 40 seconds.
- If ACC_ON and if the car speed is 60Km/H, VC-368GGT will automatically sends the car details to the center in 20 seconds.
- If ACC_ON and if the car speed is > 60Km/H, VC-368GGT will automatically sends the car details to the center in 10 seconds.
- If ACC_ON and if the car speed is >80Km/H, VC-368GGT will automatically sends the car details to the center in 5 seconds.

3. Alarm upgrade mode setting (if your car have other alarm system)

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VC-368GGT can perfectly matches with your current car alarm. If open the car door or ACC_ON under the alarm on status, VC-368GGT will automatically sends your car details to the center.

4. Center Phone no setting

Sending SMS: Send MGCN654321S1T13266888628V to the SIM card no. You may receive the reply text message from

VC-368GGT: !WT83L1088BA;;;O13266888628;V;654321G203.80.253.134;;P2020;3030;CMNET; O13266888628 means center phone no is successfully set. For further information, please refer to point no 10.

5. IP address setting (203.80.253.134 has been set as default)

Sending SMS: Send MGCN654321G1T203.80.253.134P2020;3030V to the SIM card no. You may receive the reply text message from

VC-368GGT: !WT83L1088BA;;;O13266888628;V;654321G203.80.253.134;;P2020;3030;CMNET;V. 203.80.253.134 means IP address setting successfully. For further information, please refer to point no 10.

6. Open GPRS function

Sending SMS: Send MGOK654321T25WCMNET to the SIM card no. You may receive the reply text message from VC-368GGT:

!WT83L1088;GPS:A,TX:OK,GMT:+8;GSM:22;GPRS:OPEN,Link:OKV
GPRS:OPEN,Link:OKV means GPRS function is successfully opened.

****25 means server detects VC-368GGT online times
(Server detects VC-368GGT in every 25 seconds)**

**** CMNET means, the APN (GPRS connect point)**

7. Close GPRS function

Sending SMS: Send MGOF654321 to the SIM card no. You may receive the reply text message from VC-368GGT:

!WT83L1088;GPS:A,TX:OK,GMT:+8;GSM:22;GPRS:CLOSEV. GPRS:CLOSEV means GPRS function is successfully closed. If VC-368GGT is under the tracking/tracing situation, the tracking/tracing function will be automatically canceled.

8. Center password setting

Sending SMS: Send CN654321S765432V to the SIM card no. You may receive the reply text message from

VC-368GGT: !WT83L1088BA;;;O13266888628;V;765432G203.80.253.134;;P2020;3030;CMNET;V. 765432 means the password is successfully changed.

****6 digits are the maximum**

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9. Private user password setting

Sending SMS: Send CN654321N123456V to the SIM card no. You may receive the reply text message from

VC-368GGT: !WT83L1088BA;;;O13266888628;V123456;654321G203.80.253.134;;P2020;3030;CMNET;V. 123456 means the password is successfully changed.

****6 digits are the maximum**

10. Center no, IP and Password setting Inquiry

Sending SMS: Send CX654321 to the SIM card no. You may receive the reply text message from

VC-368GGT: !WT83L1088BA;;;O13266888628;V123456;654321G203.80.253.134;;P2020;3030;CMNET;V

83L1088 means VC-368GGT ID code.

O13266888628 means, the no behind “O” is the center no

V123456; 654321 means, the no behind “V” are the private user password and center password ****123456—private user password, 654321—center password**

G203.80.253.134 means, the no behind “G” is the server IP address

P2020;3030 means, the data receive port, 2020 means TCP port, 3030 means UDP port
CMNET means, the APN (GPRS connect point)

11. Change the VC-368GGT ID code

Sending SMS: Send MDOM654321A1099 to the SIM card no. You may receive the reply text message from

VC-368GGT: !WT83L1099BA;;;O13266888628;V;654321G203.80.253.134;;P2020;3030;CMNET;V. 83L1099 means that the ID code is successfully changed.

**** You can only change the last 4 digits**

12. Cut engine

Sending SMS: Send CK654321 to the SIM card no. You may receive the reply text message from VC-368GGT: !WT83H1088C0922V;!WT83H1088C09. It means that cut engine is successfully. GSM signal status is 22.

13. Recovered car engine

Sending SMS: Send CZ654321 to the SIM card no. You may receive the reply text message from VC-368GGT: !WT83L1088C1022V;!WT83L1088C10. It means that the recovered car engine is successfully. GSM signal status is 22.

14. Alarm on setting

Sending SMS: Send CD654321 to the SIM card no. You may receive the reply text message from VC-368GGT: !WT83L1088C0122V;!WT83L1088C01. It means that the alarm on setting is successfully. GSM signal status is 22. After the alarm on setting, LED

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flashes in every 3 seconds. Under this alarm on condition, no matter you opened car doors or ACC-ON, VC-368GGT will automatically sends your car details to the center.

15. Alarm off setting

Sending SMS: Send CG654321 to the SIM Card no. You may receive the reply text message from VC-368GGT: !WT 83L1088C0222V. It means that the alarm off setting is successfully, GSM signal status is 22. After the alarm off setting, LED flashes in every 8 seconds.

16. VC-368GGT Positioning inquiry

Send DS654321 to the SIM card no. You may receive the reply text message from VC-368GGT, the details are as below:

[ID:83L1088;N:2304.8088;E:11358.8090;SPEED:035KM;MODE:AUTOALARM;ACC:ON;DOOR:CLOSE;GPS:A,TX:OK,GMT+8;GSM:22;GPRS:OPEN,LINK:OKV](#)

Explanation

[83L1088](#)--VC-368GGT ID code

[N:2304.8088;E:11358.8090](#)--Longitude & latitude data, latitude first, followed by longitude

[SPEED:035KM](#)--Car current speed is 35KM

[MODE:AUTOALARM](#)--VC-368GGT working mode status

[ACC:ON](#)--Detect on, ACC-OFF detect off

[DOOR:CLOSE](#)--Door Close; car door close. Door open; car door open.

[GPS:A](#)--GPS: A Indicate current position data. V: indicate the previous position data

[TX:OK](#)--TX: OK. Indicate GPS normal working. NG indicate GPS antenna have problem.

[GMT+8](#)--GMT+8: Time difference is +8 hours.

[GSM:22](#)--GSM:22 GSM signals status is 22 .maximum is 32, 0 indicate no signal.

[GPRS:OPEN](#)--The status of GPRS is open, if close: GPRS: close.

[LINK:OK](#) --means that VC-368GGT is connected with GPRS server; [Link:NG](#) means that VC-368GGT is disconnected with GPRS server.

17. Center location inquiry:

Sending SMS: Send DG654321 to the SIM card no, VC-368GGT will automatically sends the SMS to the center with the car current location & working status. You will receive the text message with your car details (street name, building name and etc) through the center. GSM receiver is needed for this function.

▲ Other Instructions:

1. SOS button is attached, after press; the LED will flash rapidly, it means that the help messages have been delivered to the center. If you press the 2nd help signals, you need the wait until the LED is stops flashing (it is around 4 seconds).
2. Please activate the SIM card GPRS function in order to use our VC-368GGT. The alarm upgrade mode (if your car have other alarm system), it can matches with our VC-368GGT.

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- 3. In order to use our VC-368GGT, you have to activate the SIM card GPRS function, and make sure that you can access to the internet.
- 4. The maximum voltage is 9~25V DC.
- 5. VC-368GGT is using the tri-band frequencies which is 900/1800/1900MHz. If you need the quad band frequencies, please inform us early.
- 6. Please make sure that the SIM card is always in credit.

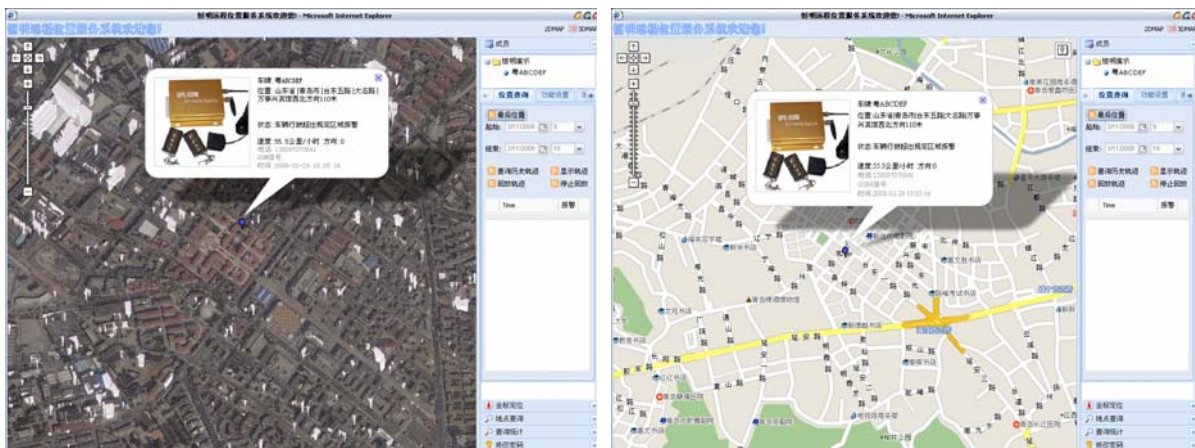
▲ Software Instructions

Below are the functions for the integration of VC-368GGT and software

- 1. Real time tracking/tracing with details (road name, building name)
- 2. 1 year history checking
- 3. Over-speed and 14 Geo-fencing areas
- 4. Km/H and fuel used status
- 5. Cut engine and recover engine
- 6. Positioning function
- 7. 1000 cars can be control at the same time

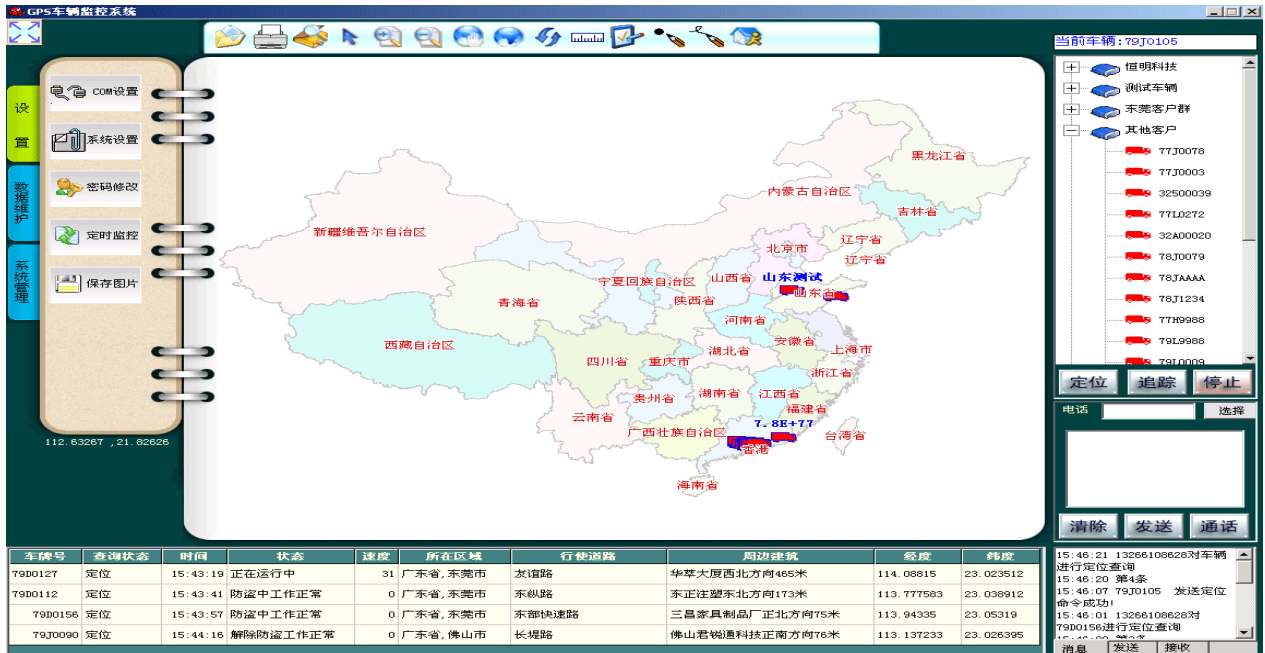
We have 2 solutions, which are Web based and PC based

Web based--real time tracking/tracing, username & password, data store in server



PC based--not real time tracking/tracing, no username & password, data store in hard disk

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▲ Products Features:

GSM module (SIMCOM SIM300C) features

Feature	Implementation
Frequency Bands	<ul style="list-style-type: none"> •Tri-Band GSM/GPRS 900/1800/1900MHz •Or Quad-Band * 850/900/1800/1900MHz
Transmit Power	<ul style="list-style-type: none"> •GPRS multi-slot class 10 •GPRS mobile station class B •Compliant to GSM phase 2/2+ <ul style="list-style-type: none"> -Class 4 (2W @ 850/900MHz) - Class 1 (1W @ 1800/1900MHz)
Dimensions	50*33*6.2mm
Weight:	12 g
	<ul style="list-style-type: none"> •Control via AT commands (GSM 07.07,07.05 and SIMCOM enhanced AT Commands) •SIM application toolkit •Supply voltage range 3.4...4.5V
Power supply	<ul style="list-style-type: none"> •Low power consumption •Normal operation temperature: <ul style="list-style-type: none"> -20 ° C to +55 ° C •Restricted operation temperature: <ul style="list-style-type: none"> -30 ° C to -25 ° C and +55 ° C to +80 ° C •Storage temperature <ul style="list-style-type: none"> -40 ° C to +80 ° C
Fax	Group 3,class 1
DATA	•GPRS class 10:max.85.6 kbps(downlink)

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	<ul style="list-style-type: none"> •PBCCH support •Coding schemes CS 1,2,3,4 •CSD up to 14.4 kbps •USSD •Non transparent mode •PPP-stack
SMS	<p>Specifications for SMS via GSM/GPRS</p> <ul style="list-style-type: none"> •Point-to point MO and MT •SMS cell broadcast •Text and PDU mode
Voice	<ul style="list-style-type: none"> •Tricodec <ul style="list-style-type: none"> ----Half rate(HR) ----Full rate(FR) ----Enhanced Full rate(EFR) •Hands-free operation • (Echo cancellation)
Drivers	<ul style="list-style-type: none"> •Microsoft Windows Mobile. RIL Driver •MUX Driver
Interfaces	<ul style="list-style-type: none"> •Interface to external SIM 3V 1.8V •60 Pins Board-to-board connector •Two analog audio interfaces •Keypad interface •LCD interface •RTC backup •AT commands via serial interface •Dual-serial interfaces •Antenna connector and antenna pad •Charge interface •Compatibility •AT cellular command interface
Approvals	<ul style="list-style-type: none"> •FTA •Local Type Approval •CE

GPS Tracking Device Features

Network	GSM/GPRS
Operating Frequency of GSM	850/900/1800/1900Mhz
GPS chip	SIRF Star III high performance GPS chipset
GPS sensitivity	-159dBm
GPS accuracy	10m

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Gps Channel	20 channel satellites
Time To First Fix	Reacquisition 0.1s Cold status 45s Warm status 35s Hot status 1s
Power Supply	DC 9—25V input
Operating Current	<2.5A (Depending on the internet on which it works)
Current of Static State	<70mA
Battery	Built-in 3.7V 700mAh Ni-Mh battery
size	82(L)x64(W)x38(H) mm
Weight	1.0kg
material	aluminium
Operation Temp.	-25°C to +60°C
Humidity	5%--95% non-condensing

Technological advancements, products constantly updated, Vtec have the reservation right to change or modification of the performance or function of the products but not notice further

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