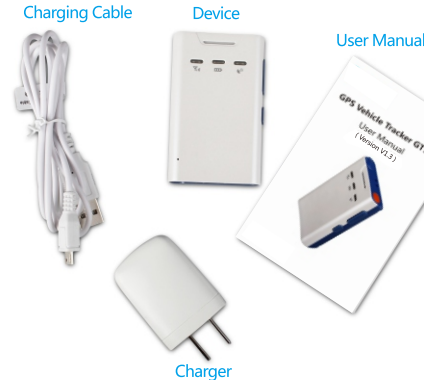120*70mm,105克铜版纸

Introducing Your Device

Learn about your device's layout, indications and specifications.

1. Inside the Box

Charging Cable   Device
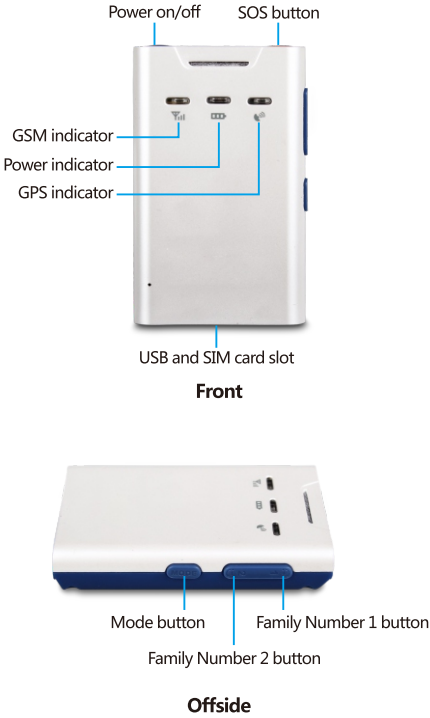User Manual

Charger

Pictures are for indication and illustration purposes only.

NOTE:
After opening the packing box, please check if the accessories are complete. If there is anything missing, please contact your distributor.

2. Overview

2.1 Introduction

Power on/off   SOS button

GSM indicator
Power indicator
GPS indicator

Front

USB and SIM card slot

Mode button   Family Number 1 button
Family Number 2 button

Offside

2.2 LED Indication

1. Power status indicator (red)

Status	Indication
Quick flashing (interval 0.3s)	Low battery
Slow flashing (interval 2s)	Fully charged
Slow flashing (flash 0.1s after every 3s)	Normal working
Continuously in bright	Charging
Continuously in dark	No battery / troubleshot

GPS signal indicator (blue)

Status	Indication
Slow flashing (interval 2s)	Searching GPS signal
Slow flashing (flash 0.1s after every 3s)	GPS signal has been acquired successfully
Continuously in dark.	GPS in sleep mode / not working

GSM signal indicator (green)

Status	Indication
Quick flashing (interval 0.3s)	GSM initialization
Slow flashing (flash 1s after every 3s)	Receive GSM signal normally
Slow flashing (flash 0.1s after every 3s)	GPRS online
Continuously in bright	Calls in /calls out / in the calls
Continuously in dark	No GSM signal or no SIM card inside

2. Armed
When the terminal is armed, all the 3 LEDs (red / green / blue) will be flashing circularly; all LEDs will be off without other operation on the terminal within 20s.

3. Buttons instruction

No.	Button	Graphic	Function Introduction Operation	Function
1	SOS button	SOS	Press	SOS alarm
			Press during calls	Hang off
2	Family Number button 1		Press and hold	Call the family NO.1
			Press when calls coming in	Answer
			Press during calls	Turn on the volume
			Press and hold during calls	Change to speaker mode
3	Family Number button 2		Press and hold	Call the family NO.2
			Press when calls coming in	Answer
			Press during calls	Turn down the volume
			Press and hold during calls	Change to speaker mode
4	Mode button		Press twice in a row	Arm/disarm
			Press and hold	Send location to platform automatically once
5	Power ON/OFF		Press and hold	Power on/off

3. Installation

3.1 Install/Remove GSM SIM card

(1) Turn off the terminal
(2) Open the USB rubber plug

(3) Put the GSM SIM card in the SIM card slot until you hear the "click" sound.
(4) Please turn the terminal off before you remove the SIM card.

WARNING:
Turn off the terminal before removing the SIM card. It is not allowed to remove SIM card from device while it is connected with external power supply.

3.2 Power ON/OFF

Press and hold the "ON / OFF" button to turn on the device.

3.3 Charge battery

When the red LED light is flashing quickly, it means the battery is low. Charging is required. And please charge it before usage for the first time.

(1) Connect the charger to power;
(2) Open the rubber plug;
(3) Connect the charger into the USB slot;
(4) This process may take 4-6 hours. During this period, it is normal that the terminal, battery and the charger turn hot.
(5) If the red LED is continuously bright, it means it is charging. If the red LED is flashing slowly, it means it is fully charged.

WARNING：
The terminal must be charged by standard charger from your distributor in a ventilated place at 0°C-4°C. Using unauthorized charger is dangerous and against the warranty terms.

4. Parameters setting

4.1 Set APN

Please send SMS command to SIM card number of the terminal to set up the APN parameter. The terminal will reply "OK" automatically after setting successfully.
Send SMS command: APN,APN name#
e.g: APN,internet#

NOTE:
In some countries, the APN may have user name and password; you need to send SMS command as following:

Send SMS command: APN,APN name,user name,password#
e.g: APN,internet,CLIENTE,AMENA#

4.2 Set DNS

Please send SMS command to the SIM card number of terminal to set up the DNS parameter. The terminal will reply "OK" automatically after setting successfully.
Send SMS command: SERVER,1,DNS,Port,0#
E.g: SERVER,1,gpsdev.tracksolid.com,21100,0#

4.3 Add Family Numbers via SMS command

(1) Add two Family Numbers
Send SMS command: FN,A,Phone Number1,Phone Number2# (A means adding numbers)
e.g. FN,A,13510***360,1351***85136#

(2) Add one Family Number
To add the first Family Number, please send SMS command: FN,A,Phone Number1#
e.g. FN,A,13510***360#
To add the second Family Number, please send SMS command: FN,A,Phone Number2#
e.g. FN,A,. 1351***85136#

4.4 Delete Family Numbers via SMS

Send SMS command: FN,D,1,2# (D means deleting the number)
1,2 means sequence numbers
OR
Send SMS command: FN,D,Phone Number#

4.5 Add/delete Family Numbers via platform

You can set family numbers via the platform after the terminal is connected to the platform.

4.6 Call Family Numbers

Long press Family Number buttons can call preset numbers. Short press SOS button can hang off the call.

NOTE:
You can feel the terminal vibrates slightly, when the call is answered by family number.

4.7 Answer phone calls

You can pick up the call by short pressing one of Family Number buttons, turn on the speaker by long pressing one of Family Number buttons, or reject/ hang off the call by pressing SOS button.

4.8 Set White List

Normally, the terminal can only answer phone calls from SOS number and Family Numbers. If you want to receive calls from other phone numbers, you need to login the platform to add white list numbers (15 white list numbers in maximum).

4.9 Set call reminder mode

There are three call reminder modes: ringtone only, vibration only, and both ringtone and vibration.

Send SMS command: CALLMODE,code of call reminder mode#
Code: 0 –ringtone; 1 – vibration; 2 – both ringtone and vibration (default)
e.g. CALLMODE, 1# means call reminder mode is vibration.

4.10 Control volume

During the call, short press Family Number 1 button to turn up the volume and Family Number 2 button to turn down the volume. When the volume reaches the limit, the button light will be all bright.

4.11 Set SOS Number

(1) Add SOS number Via SMS command
Send SMS command: SOS, A,number1,number2,number3 # (A means adding number).
You could set 3 SOS numbers in maximum. If setting succeeds, the terminal will reply "OK".
e.g. SOS,A,13510****60# (set the first SOS number)
SOS,A,13510****6# (set the second SOS number)
SOS,A,,136126****8# (set the third SOS number)

(2) Delete SOS Numbers
Send SMS command: SOS,D,1,2,3# (D means deleting SOS number)
e.g. SOS,D,1# means delete the first number
SOS,D,3# means delete the third number
If you forgot the sequence number, you can also delete the number by SMS command like this: SOS,D,number#
e.g. SOS,D,13527852360# means deleting this SOS number directly.
It will reply "OK" if the number is deleted successfully.

(3) Add SOS numbers via platform
You can set SOS number via the platform after activating the terminal.

5. Operation

5.1 Arm/disarm

(1) Via Mode Button
You can press the mode button twice in a row to arm the terminal, and press the mode button twice in a row to disarm the terminal when it is in arm status.

(2) Via calls
You can use one of SOS numbers to call the terminal within 10s to arm the terminal. The terminal will reply a SMS message "Remote fortification success". You can also use one of SOS numbers to call the terminal within 10s to disarm the terminal when it is already in arm status. The terminal will reply a SMS message "Remote disarm success". If the call does not hang off after 10s, it will enter into the monitoring status.

(3) Via SMS command
Any SOS number can send SMS command "111" to arm the terminal (must be the SOS number). And it will automatically reply "OK" if set successfully. Any SOS number can send SMS command "000" to disarm the terminal (must be the SOS number). And it will automatically reply "OK" if set successfully.

NOTE:
When the vibration alarm is off, the arm function will not be executed.

5.2 Vibration Alarm

In arm status, the terminal will send a vibration alarm SMS to SOS numbers in 10s if it detects vibration.

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e.g.: "Vibration Alarm! Please pay attention!"
If the GPS is located, the terminal will send a SMS with accurate Google link location information.

e.g.: "Vibration alarm: http://maps.google.com/maps?q=2 2.577155,113.916708".
If GPS is not located, the terminal will send a SMS with LBS Google link location information instead.

e.g.: "Vibration alarm: http://maps.google.com/maps?q=2 2.578292, 113.913947".
Then it will dial the SOS numbers in cycle, if any SOS number answers the call, it will stop calling. If there's no response after all the numbers have been dialed for three cycles, it will stop.
When vibration alarm is activated, if GPS is located successfully while there is no GPRS connection, the terminal will send longitude and latitude location to pre-set SOS numbers. When vibration alarm is activated, if GPS is not located successfully and there is no GPRS connection, then the terminal will send a SMS, "Vibration alarm! Please notice", to pre-set SOS numbers.

NOTE:
The interval of vibration alarm could not be less than 5 minutes. If the terminal cannot send messages out, please check SIM card balance.

5.3 SOS Alarm

Press SOS button for more than 3s to activate SOS alarm, meanwhile you could feel the vibration twice, and then the terminal will send a message "Emergency call! Please pay attention!" to the SOS numbers immediately. If GPS is located, the terminal will send a SMS with accurate Google link location information.

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e.g.: "Emergency call: http://maps.google.com/maps?q=2 2.577155,113.916708".
If GPS is not located, the terminal will send a SMS with LBS Google link location information.

e.g.: "Emergency call: http://maps.google.com/maps?q=2 2.578292,113.913947".
Then it will dial the SOS numbers in cycle, if any SOS number answers the call, it will stop calling. If there's no response after all the numbers have been dialed for three cycles, it will stop.

If the GPS is located, but the GPRS connection between the terminal and platform is abnormal, then the terminal will send a SMS with Google link location information to SOS numbers.

e.g.: "Emergency call! <01-08 17:36> http://maps.google.com/maps?q=N22.577156,E113,916748".

If the GPS is not located, and the GPRS connection between the terminal and platform is abnormal, then the terminal will not able to get the location information. It will reply a message, "SOS Alarm! Please pay attention!", to SOS numbers.

NOTE:
SOS number needs to be set in advance.

5.4 Geo-fence Alarm

Geo-fence function is off as default. You can login the platform to turn on and set the Geo-fence. In the platform, you can set 5 fences in specific areas. There are 3 types of geo-fence, which is Geo-fence IN, Geo-fence OUT, and Geo-fence IN/OUT. When the terminal goes

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or out specific areas, it will alert the SOS numbers.

5.5 Low battery Alarm

When battery is low, the terminal will send to SOS numbers.

5.6 Voice monitoring

When SOS number sends monitor command: MONITOR# to the terminal, the terminal will reply "OK" and call the SOS number. After the call connected, the terminal will enter monitor condition. The SOS number can hear the sound around the terminal.

e.g.: "Lat: N22.577240,Lon:E113.916730,course:30.36, Speed:0.4111,Date Time:13-01-29 16:09:53".
If not located within 5mins, it will reply a SMS with last longitude and latitude information.

5.7 Check location

(1) Ask for address information
Send a SMS command, POSITION#, from SOS number to terminal to activate the GPS.
After the command is sent successfully, SOS number will receive a SMS with LBS / GPS location Google link (depends on the situation).
Only SOS numbers can check location information of the device.
Situation:
If GPS is located successfully, device will reply a SMS with accurate Google link location information.

e.g.: "Precisely Locating: http://maps.google.com/maps?q =2.577155,113.916708".
If GPS is not located, device will reply a SMS with LBS Google link location information 5 minutes later.

e.g.: "General Locating: http://maps.google.com/maps?q =2.578292,113.913947".
If the GPS is not located, and the GPRS connection

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between the terminal and platform is abnormal, then the terminal will not send any location information to SOS numbers.

(2) Ask for coordinates
Send a SMS command, WHERE#, from SOS number to the terminal.
Only Family Numbers or SOS numbers can get longitude and latitude information from the terminal.
If GPS is located, it will reply current longitude and latitude information.

e.g.: "Lat: N22.577240,Lon:E113.916730,course:30.36, Speed:0.4111,Date Time:13-01-29 16:09:53".
If not located within 5mins, it will reply a SMS with last longitude and latitude information.

e.g.: "Last position！Lat:N22.577240,Lon:E113.916730 , course:30.36,Speed,0.4111,Date Time:13-01-29 16:09:55".
If GPS has never located before, the terminal will reply a SMS "NO DATA!!" after 5mins.

(3)Ask for Google link
Send a SMS command, URL#, from SOS number to the terminal to activate the GPS.
If GPS is located, it will reply a SMS of current location information in Google link.

e.g.: "<DateTime:13-08-31 14:21:30> http://maps.google.com/maps?q=N22.577283,E113.9166 87"
If not located within 2 mins, it will reply a SMS of last location information in Google link.

e.g.: "<DateTime:10-11-23 23:42:51> http://maps. google.com/maps?q=N22.571490,E113.877103"

If GPS has never located before, the terminal will reply a SMS "NO DATA!!" after 5mins.

(4) Platform tracking
The terminal will send position information to the platform server as pre-set time interval. Users can check the position information on the platform.

Please contact your dealer for the login methods and operations.

5.8 Reboot the terminal

Send SMS command: RESET#
When terminal gets command, it will reboot after 1 min.

6. Working mode setting

6.1 Model1: Locating in a regular time interval mode

After turned on and sent the first GPS location, the terminal will activate GPS in 30 mins. If located, it will send location to platform and turn off GPS automatically. If fail to locate, then GPS will turn off and send LBS location.
Send SMS command: mode,1#

6.2 Model2: Locating according to vibration mode (default setting)

If the terminal power on, and GPS locates, the terminal will send the first GPS location information to the platform. Then GPS will be off in sleep mode. The terminal will not send any GPS location information to the platform until it is vibrated. If the terminal is vibrated, and GPS could not locate, it will upload LBS location to the

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platform.
Send SMS command: mode,2#

6.3 Mode3: Locating according to command

In this mode, the terminal will be in Deep Sleep mode. It will not connect with the platform. You can send SMS command / make calls to check location information. In this mode, the arm/disarm commands will be invalid. Receiving the arm or disarm command, the terminal will reply: "The terminal is in Deep Sleep mode. Please wake up!"
Send SMS command: mode,3#

7. Appendix

7.1 Battery security

● Please use the original battery. The warranty will be invalid by using unauthorized accessories. The manufacturer will not take any responsibility for damages caused by not using unauthorized battery.
● The new battery can realize the optimal performance after fully- charging for 2 or 3 times.
● The battery can be recharged hundred times. When its talking time and standby time shorten, please replace it with a new one.
● Disconnect the external power supply when the battery is fully charged. Over time charging will shorten the battery life.
● Do not short-circuit the battery with metal stuff (such as the key in your pocket)
● Do not bend or open the battery.
● Do not put the battery into water or fire.
● The battery should be charged at room temperature, and cannot be charged at temperature below 0 degrees or above 45 degrees Celsius.

7.2 Trouble shooting

If there is any problem while operating the terminal, please refer to the following table, or contact your service provider.

Problems	Causes	Solutions
Bad reception	Near the tall building or in the basement	Change to a place with good signal.
Cannot switch on	No power	Change a new battery
Cannot make voice monitoring	No preset SOS numbers	Set SOS numbers
	SIM card is without Caller ID function	Activate the function
	SIM card is not inserted correctly	Check the SIM card
	The sheet mental of SIM card is Dusty	Wipe it clean
Cannot connect to the network	Invalid SIM card	Please contact your SIM card operator
	Out of GSM service area	Move back to the GSM service covered area
	Weak signal	Try again in a strong signal area
Cannot check address	GPRS function is not activated	Please contact the SIM card operator to activate GPRS
	Cannot get the position data	① Restart the terminal ② Contact with your distributor
	It is not a SOS number	Set SOS number

GPS Portable Tracker

User Manual
（Version V1.3）