

# Asset GPS Tracker

## User Manual



GF60L

## Description

Asset tracker is a rechargeable GPS tracker with strong magnets and long standby battery. Only need insert Sim card, it will upload GPS location based on movement or preset frequency automatically. With a mini microphone built-in, device also support one way calling remotely.

## Production Application

- ◆ Personnel safety tracking
- ◆ Fleet management and vehicle tracking
- ◆ Car service shop/Car rental
- ◆ Vehicle insurance
- ◆ Motorcycle and electric bike tracking
- ◆ Asset/container tracking management

## Production Features

- ◆ Wireless design easy to hidden anywhere.
- ◆ Positioning and Tracking: Through the on-line Positioning Platform or the APP.
- ◆ Standby mode last 1~90 days depends on model and activity time every day
- ◆ Geo-fence/Low battery alarm/Vibration alarm
- ◆ Voice listen: you can dial the device phone number to hear the voice.
- ◆ Different working mode: Real time tracking/power saving/Deeply sleep mode.
- ◆ Magnet design easy to hidden in car

## Specs.

|                          |   |
|--------------------------|---|
| Model GF60 120*83*29cm   | 10000mAh 4G, Anti-Removal alarm                     |
| <b>GSM Specification</b> |   |
| 2G GSM frequency         | 850/900/1800/1900MHz(2G version)                    |
| 4G LTE bands             | LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66               |
| GPRS                     | Class 12, TCP/IP                                    |
| Memory                   | 32 + 32 Mb  |
| Phase error              | RMSPE<5,PPE<20                                      |
| Max output               | GSM850/GSM900:33±3dBm ,GSM1800/GSM1900:30±3dBm      |
| Max frequency error      | ±0.1ppm   |
| Receive sensitivity      | Class II RBER2%(-102dBm)                            |
| <b>GPS Specification</b> |   |
| Chipset                  | <b>4G</b> SIMCom LTE Cat 1 A7670SA+AT6558R(GPS)     |
| Frequency                | GPS L1, 1575.42 MHz C/A code                        |
| Channel                  | 66  |
| Location accuracy        | <10 meters  |
| Tracking sensitivity     | -165dBm   |
| Acquisition sensitivity  | -148dBm   |
| TTFF (open sky)          | Avg. hot start ≤1sec                                |
|                          | Avg. cold start≤32sec                               |
| <b>Others</b>            |   |
| Antenna                  | Built-in quad band GSM antenna, GPS ceramic antenna |
| Charging voltage         | 5VDC  |
| Working current          | 10uA~65mA   |
| Battery                  | Rechargeable 10000mah Lithium battery               |
| Standby                  | 1~90 days depends on activities                     |
| Operating temperature    | -20°C~+70°C   |

| Button&Indicator | Light Status  |
|------------------|---|
| Power ON/OFF     | Insert SIM or take out SIM                            |
| Red light-Power  | Flashing when charging; Constant on after charge full |
| Green light-GSM  | Light flashing represent no GSM/GPS signal;           |
| Blue light-GPS   | Light constant on after receive GSM/GPS signal        |

## SMS Command List

| SMS Function  | SMS Command format | SMS example |
|---|--------------------|-------------|
| ★ Please don't type "+" "space", password 123456                          |                    |             |
| ★ Preset Center Number first before testing SMS or Phone Call alarm mode. |                    |             |

|  |   |  |
|--|---|--|
| ★ Each SMS must reply "OK" represent command successfully. |   |  |
| Set IP Port  | <b>adminip+password+space+IP Address+space+port number</b>      | adminip123456 www.gps2828.com 7018                       |
| Set APN  | <b>apn123456+space+LocalApn+space+ApnName+space+ApnPassword</b> | apn123456 internet                                       |
| Set fall-off alarm   | <b>remove123456+space+1</b>                                     | remove123456 1   |
| Cancel fall-off alarm                                      | <b>remove123456+space+0</b>                                     | remove123456 0   |
| Set Time Interval  | <b>ITV123456+space+time interval(s)</b>                         | If 60s , send SMS: ITV123456 60                          |
| Set center number  | <b>centernum123456+space+phone number</b>                       | centernum123456 13712345678<br>no need put country code  |
| Cancel center number                                       | <b>centernum123456</b>  |  |
| Set low battery alarm                                      | <b>lowbat123456+space+1</b>                                     | lowbat123456 1   |
| Cancel low battery   | <b>lowbat123456+space+0</b>                                     | lowbat123456 0   |
| Set SMS time zone  | <b>timezone123456+space+(time zone*60)</b>                      | If +5.5:timezone123456 330                               |
| Check device status  | <b>check123456</b>  | check GPS GSM status                                     |
| Set alarm mode   | <b>KC123456+space+1</b>   | APP alarm (default)                                      |
|  | <b>KC123456+space+2</b>   | APP+SMS alarm  |
|  | <b>KC123456+space+3</b>   | APP+SMS+PhoneCall alarm                                  |
| Set vibrate alarm  | <b>vibrate123456+space+1</b>                                    | Must keep continuously static 3 minutes before vibration |
| Cancel vibrate alarm                                       | <b>vibrate123456+space+0</b>                                    |  |
| Set Voice listen   | <b>Monitor13456</b>   |  |
| Cancel voice listen  | <b>Tracker123456</b>  | default  |
| Set factory mode   | <b>begin123456</b>  | It will erase all setting                                |

## Intelligent Working Modes

### ❖ Mode 0: (Real-time mode)

Send SMS: "**MD123456+space+0**".

**\* Note:** GPS always ON and connected with server, consume battery very fast!

### ❖ Mode 1: (Default Power saving mode)

Send SMS:

**"MD123456+space+1+space+work time+space+1+space+sleep time+space+30+ space+3+**

space+120".

For example: "MD123456 1 3 1 120 30 3 120"

2<sup>nd</sup> "3" means: work time, unit: minute

4<sup>th</sup> "120" means power off sleep time, unit: minute;

Only yellow part value could be set, other value keep same as command example.

### ❖ Mode 2: (Clock mode)

Send SMS: "MD123456+space+2+space+work time+space+wakeup time+space+wakeup time"

For example, send SMS command "MD123456 2 3 3:00 14:00"

Device will keep always power off sleep mode, only when 3:00 and 14:00 every day, device will wake up and work 3 minutes, and power off again enter sleep.

### ❖ Mode 3: (Interval mode)

Send SMS: "MD123456+space+3+space+work time+space+ sleep time"

For example, send SMS command "MD123456 3 3 120"

It will power off 120 minutes when it is static status, after 120 minutes, device will wake up and work 3 minutes.

\* **Note:** during power off sleep time, device will disconnect from server and won't reply any message if sending command.

## Real time Tracking Software

Web: [www.gps16888.com](http://www.gps16888.com)

Android & IOS APP : SecumorePlus

Default to use IMEI number login, password as 123456.



## Attention

- Device support Nano-sized 2G GSM Simcard, make sure simcard GPRS data activated and the PIN code removed.
- For first time using, plz charge the device full and put device outdoor in open area to get GPS signal. Device may use LBS if put indoor.
- Battery life is directly related with working mode and movement period. Longer



period movement or quick uploading frequency will draw battery fast.

- GPS defaults update location at every 1 hour (not real time). please set up the working mode as per actual needs.

#### FCC Warning Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.