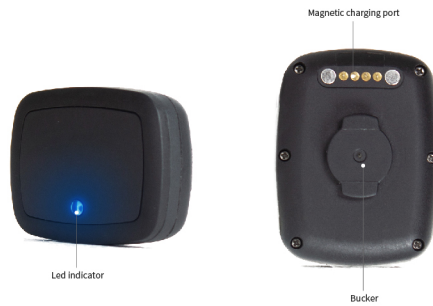


# Personal GPS Tracker TL-702 User Manual

## 1.Appearance



TL-702 is waterproof IP67 GPS pet tracker developed by Toplovo. With its fall down alert, auto tracking and precious positioning function in mini size, it is perfect for pets and kids. You can implement real-time tracking anywhere via the mobile phone APP or tracking platform. It helps to protect the one who you care about.

## 2.Specifications

Content	Specs
2G	850/900/1800/1900Mhz
Dimensions	38*51*21mm
Weight	31.8g
Waterproof Level	IP67
Color	Black
GPS Sensitivity	Tracking: -165dBm Re-acquisition: -163dBm Acquisition: -148dBm
GPS Accuracy	≤10m
GPS Start time	Cold start: 36s Warm start: 22s Hot start: 1s
Battery Capacity	600mAh
SIM Card Type	Nano SIM
Firmware Upgrade Mode	OTA/USB
Standby Time	4 years
The Longest Working Time (15Min upload data once)	3 days
Charge Current	200mA (Max)
Charging Time	2-3 Hours
Operating Temperature	-20°C to +65°C
Working Humidity	5% - 95%

## 3.Charging

Contact the charging interface by the magnetic USB cable.



## 4.Inserting a nano SIM card

Open the device by screwdriver, put SIM card into the card port in proper direction. And then please tighten the device to make sure the waterproof function.

**Note:** To avoid damaging the battery, please make sure the SIM card slot is closed before screwing back the device.

## 5.Switching the device on and off

Charging to turn it on

Detecting movement to turn it on (pedometer)

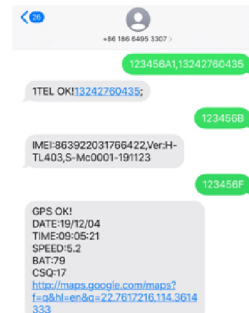
**Note:** It's better for device to get the signal outdoor or near the window.

## 6.Set the authorized phone numbers

You can set 8 authorized phone numbers at most.

Send command **123456A1**, **authorized phone number** via SMS, the device replies: 1 TEL OK! authorized phone number.

Example: **123456A1**, **18588955622**, shown as the following picture:



**Note:** A1 means the first authorized phone number, A2 means the second one and A3 means the third one until A8. There is no space in the text and all the letters of commands must be capital.

## 7.Deep sleeping mode as default setting to save power dramatically

It lasts 4 years in deep sleeping mode.

Tracker could be woke up by 3 ways as following mentioned.

**a:** Send command **123456L5, hh:mm,n** to wake up tracker at a given time or given interval time.

**b:** Charging tracker to wake up it.

**c:** Movement to wake up device

**Note:** Default setting for tracker is to go into deep sleeping mode after tracker has no movement and last 90 seconds. You could turn off this function by command..

## 8.Searching for accessible network in deep sleeping mode

Tracker could be setup to search for available network at a given time in sleeping mode.

## 9.Continuous auto-track function

Auto-tracking function is to trace your pet or assets at a given time by command.

So you could get location of your loved one whenever you want or play back the history tracks of it.

Send command **123456Mx,yyyz**, X is 1 or 0.1 means to open this function and 0 to close this function.

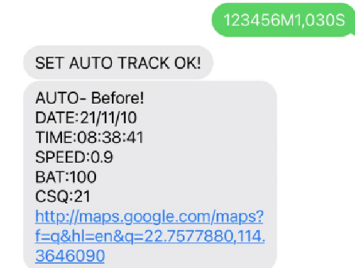
'yyy' is interval time and must be three digits. For example ,030S means 30S.

z is the unit of the interval time and could be S,M,H.

'S' is Second, 'M' is Minute, 'H' is Hour.

'H' should be ≤90; 'M' should be <255

For example, send command **123456M1,030S** via SMS, the device will reply "SET AUTO TRACK OK!". It will send updated location to your server or authorized numbers every 30 seconds.



## 10.Support GPS & WIFI dual positioning functions

When the tracker is in a building or gps signal is weak, the device can switch to the WIFI assist positioning mode, searching 3 open WIFI (with visible WIFI name) with the strongest signal nearest the device, sending 3 MAC addresses to the platform and APP to support positioning and make it more accurate, it's especially useful when using the tracking device indoor or under basement.

## 11. Fall down alert

Send command **123456KLXXX** to set threshold, XXX is 3 digital numbers (000≤xxx<255). 000 means to close the fall down alarm function and 255 means the most sensitive fall detection.

When fall down alert is triggered, the device will send message to the A1-A3 authorized phone number.

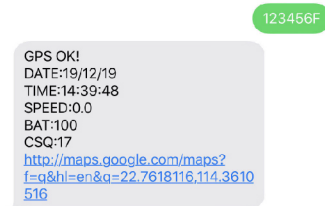
**Ps.** XXX is advised to be from 045 to 060.

For example, send command **123456KL060** via SMS, the device will reply “SET Low-g Threshold OK!” then when fall down alert is triggered, the device will send message to the A1-A3 authorized phone number.



## 12. Get the single positioning

Send command **123456F** via SMS. The device will search the GPS signal to get the latest location. If it fails, the device will reply with invalid information.



## 13. Connect to tracking platform

(1) Set APN, IP and port

Send command **123456CAPN,IP:Port** via SMS. (APN can be acquired from the SIM card operator and IP port is 112.124.14.58:9289)

Example: **123456CCMNET, 112.124.14.58:9289** (CMNET is APN.)

(2) Send command **123456D** to turn on GPRS.

**Note:** Please confirm the SIM Card GPRS data is activated.

(3) Send command **123456B** to get the IMEI number, then share the IMEI number with us. We will offer you an account for logging the platform PC/Phone platform website: **www.glotracking.com/m**

**Ps.** You can scan the QR code on the bottom left of the webpage to download APP for IOS and Android.

## 17. More functions of the device

Command list is attached below for your further information, if you have any question pls do not hesitate to contact us.

## Command list

Function	Command	Example
Set authorized phone number	123456Ax,phone number	123456A1,18588955622 x: (1-8)
Delete the authorized phone number	123456Ax,D	123456A1,D x: (1-8)
Set router's user name and password	123456WiFixxx,yyy	123456WiFiUSER,PWD xxx: means user name yyy: means password
Set the number of WIFI included in the GPRS protocol	123456Wx	123456W3 X range is 0~3, 0 means WIFI information is not included in protocol.
Set fall down alarm	123456KLxxx	123456KL045 xxx: Fall down threshold (Sensitivity), 000≤xxx<255, 000=Close the fall down alarm function. Suggestion: xxx=050
Wake up device from deep sleep mode	123456L5,hh:mm,n	123456L5,08:00 h is hour (24-hour system) m is minute n=1 to wake up tracker at a given time. n=0 given interval time. 123456L5, is to turn off this function.
Searching for accessible network at a given time in deep sleeping mode	123456L6,hh:mm	123456L6,00:10 h is hour (24-hour system) m is minute 123456L6, turn off this function
Set Low Battery alarm	123456Nx,yy	123456N1,30 x:0=turn off,1=turn on yy: low battery threshold (less than 45, more than the lowest threshold)
Set Fully-charged alarm	123456N2,x	123456N2,1 x:0=turn off,1=turn on
Single positioning	123456F	
Set GEO fence alarm	123456ix,y,z, aabccddeffgghhijkkll mnnpeppqrrsss	123456i1,1,1,51113525N009125670E 50241115N011011173E x: Electronic fence number group (1-5) y: 0=turn off,1=turn on z: 0=come in,1=come out e: N=north latitude, S=south latitude j: E=east longitude, W=west longitude
Set local time zone	123456Lxyy x=- West, x+= East	123456L+08 (Default time zone is +08)
Set continuous tracking time	123456Mx,yyyz	123456M1,005M x: 0= turn off,1=turn on yyy: Set the time (001-255) z: S=seconds, M=minute, H=hour
Ask for the version of IMEI, hardware and Software	123456B	
Set APN, IP and port	123456CAPN,IP:Port	123456CCMNET, 112.124.14.58:9289 The user can obtain APN from the local SIM card operator
Turn on GPRS	123456D	Default is off
Turn off GPRS	123456E	
Set GPRS user name and password	123456O&&&,@@@	123456Ointernet,internet123 &&&: GPRS User name @@@: GPRS password
Set GPRS domain name, port	123456Rhttp://Domain; Port	123456Rhttp://liaoHong.vicp.net;6000 Domain: Domain name Port: The port number
Delete the GPRS domain name, port	123456R;	
Allow device into deep sleep mode in still	123456UA	
Forbid device to go into deep sleep mode in still	123456UB	
Allow pedometer to wake up device in deep sleep mode	123456UC	
Forbid pedometer to wake up device in deep sleep mode	123456UD	
OTA Update	123456UV	Please make sure its battery level is above 50% when send this command to upgrade tracker into the latest version.
Reset the device	RESET!	
Turn off the device	123456K	The device will be turned off automatically.

**Ps: For more command details pls be free to consult us!**

## 15. Reset the device

Send command **RESET!** via SMS, the device will reset to the factory settings.

**Note:**The device will restart after sending command **RESET!** without further response.

## Cautions

1. Don't put the unit in overheated or overcooled places.
2. Handle carefully. Don't vibrate or shake it violently.
3. Don't paint the unit, this may cause some foreign materials left in between the parts.
4. Please don't disassemble or refit the unit. The system should be installed by technical personnel.
5. Please use the battery and charger provided by manufacturer. Using other batteries and chargers will cause unwanted situation.
6. This product should be used in the normal condition of GPS signal and GSM signal. If not, it will result in the inability to locate (GPS) or locate data that cannot be transmitted (GSM).
7. The product has position tracking and listen-in functions, the user must use it within the legal limit. If the user illegally use it (such as Invasion of privacy) that lead to damage of others' rights and interests, the consequences are the user's responsibility.
8. This product is obtained by satellite to get the position information. Position data drift is normal, because it is limited by satellite positioning transmission characteristics.

## Warranty

One Year.