Personal GPS Tracker

TL-401 User Manual

GPS Tracker

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2018-06-19
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Welcome

Introduction

TL-401 is newest waterproof IP67 GPS personal tracker 4G/3G. With two-way communication, SOS alarm function, fall down alarm function, auto tracking and listen-in function, it is suitable for children, elder people, lone workers, patients and vehicles. You can implement real-time tracking anywhere via the mobile phone APP or tracking platform. It helps to protect the person who you care about.

What is in the Box

1. Device
2. USB Cable
3. Charger
4. Docking Station
5. User Manual
6. Lanyard
7. Screw Driver & Screws

Getting to Know TL-401

Hardware Description
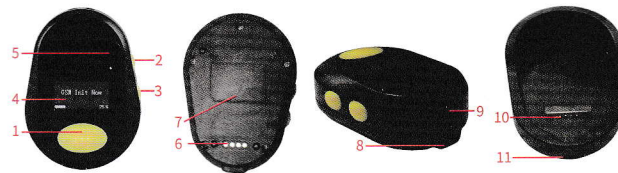
1. SOS Button
2. Call Button
3. Power Button
4. Screen
5. Microphone
6. Charging Contact Point
7. Wireless Charging Receiver (Interior)
8. Lanyard Hole
9. Speaker
10. Charging Contact Point
11. Charger Plug-In Port

Specification

| Content	Specs
3G HSPA Bands	800/850/900/1900/2100MHz
4G LTE CAT-1 Bands	Europe: B1/B3/B7/B8/B20 America: B2/B4/B12 Australia: B1/B3/B5/B7/B28
Dimensions	45.9 * 47.9 * 19.0mm
Weight	56g
Waterproof Level	IP67
Colour	Black/Blue/Green
GPS Sensitivity	Tracking: -165dBm Re-acquisition: -156dBm Acquisition: -148dBm
GPS Accuracy	≤10m
GPS Start time	Cold start: 30s Warm start: 22s Hot start: 1s
OLED Resolution	128 * 64
Battery Capacity	1100mAH
SIM Card Type	Nano SIM
Firmware Upgrade Mode	OTA/USB
Maximum Standby Time	10 Days
The Longest Working Time (5Min upload data once)	50 Hours
Docking Station Charge Current Charging Time	500mA (Max) 2-3 Hours
Wireless Charge Current Charging Time	200mA (Max) 5-6 Hours
Operating Temperature	-20°C to +65°C
Working Humidity	5% -- 95%

About the Screen
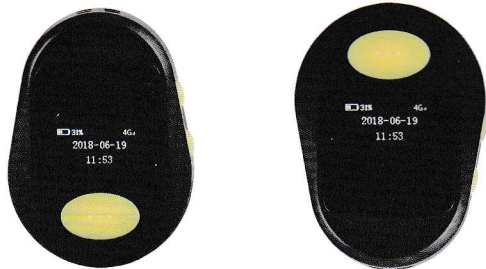
The screen shows date/ time /battery and signal. Besides, the screen is rotatable.

About Charging

Support wireless and docking station charging.

How to Use Your Device

Put the SIM Card

Open the device by screwdriver, put SIM card into the card port. Please tighten the device to make sure the waterproof function.

Notice: To avoid damaging the battery, please make sure the SIM card cover is closed before screwing back the device.

SIM Slot
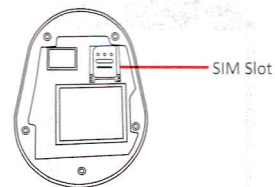
Switching the Device On and Off

Long press the power button more than 2 seconds until the tracker vibrates, the tracker is switched on.
Long press the power button more than 3 seconds until the tracker vibrates, the tracker is switched off.

Power Button
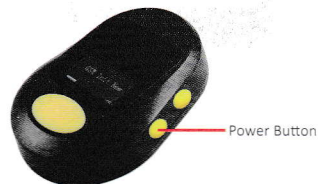
Notice: It is better to get the signal outdoor or near the window.

Set the Authorized Phone Numbers

You can set 8 authorized phone numbers at most.
Put the SIM card and switch on device, then send command **123456A1, authorized phone number** via SMS, the device reply: 1 TEL OK! authorized phone number.
Example: **123456A1, 18588955622,** details are as the following picture:

Notice: A1 means the first authorized phone number, A2 means the second one and A3 means the third one until A8.
All the letters of commands must be capital.

Make the SOS Emergency Call

Long press SOS button until the device vibrates. SOS alert will be triggered. It will send SOS message to the first authorized phone number and make a 2 way call to A1-A8 authorized phone numbers.

Notice: If A1 misses the calling, the device will call to the next one until someone answers.

HELP ME !A,DATE:18/05/29,TIME: 05/34/26,Speed:000.3,88-30, http:// maps.google.com/maps? f=q&hl=en&q=22.7614266,114.36140 00

Adjust the Call Volume

Press call button to turn up the volume.
Press power button to turn down the volume.

Make a Phone Call by the Device

Long press the call button, the screen will show the first authorized phone number, Press the power button, you can choose next number. Press the SOS button, you can call and hang it up.

Notice: Long press the call button again, it will return to the home screen.

Receive the Phone Call

The default setting is to answer the phone automatically after the device rings 4 times. If you want to change it, send command **123456Q3,1** via SMS, then you can pick up the call by pressing the call button and hang up the phone by pressing the SOS button.

Set the Listen-in Function

Send command **123456U1** via SMS, the device answers automatically and enters the listening in mode when you make a call to the device.

Notice: The default setting is two-way audio (**123456U0**). Command of U1 and U0 cannot be used at the same time, you can send command **123456U1/123456U0** to switch it.

Use the Fall Down Alert

Send command **123456KLXXX** to set threshold, XXX is 3 digital number from 000≤xxx<255. 000 means close the drop alarm function. Suggestion: xxx it would be from 045 to 050.

For example, Send command **123456KL045** via SMS, when fall down alert is triggered, the device will send message to the first authorized phone number and give call to A1-A8.

Notice: If A1 misses the calling, the device will call to the next one until someone answers.

> 123456KL045

SET Low-g Threshold OK!

Mdown!DATE:18/04/24,TIME:09:18:55,Speed:0.2,53-31,http://maps.google.com/maps?f=q&hl=en&q=22.7613424.114.3614336

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Get the Single Positioning

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

> 123456F

GPS OK!DATE:18/05/25,TIME:10:02:38,Speed:0.9,42-27,http://maps.google.com/maps?f=q&hl=en&q=22.7614224.114.3614080

Set the Low Battery Alarm

Send command **123456N1,yy** via SMS.
"yy" means the low battery volume. Such as **123456N1,30,** it means when the battery is below 30%, the device will send message to the first authorized phone number.

How to Use the Tracking Platform

Connect the Tracking Platform

1. Set APN, IP and port
Please confirm the SIM Card GPRS function is activated.

IP connection: Send command **123456CAPN,IP:Port** via SMS.(APN is from your SIM card in the device 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.

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About the Account

1.Send command **123456B** to get the IMEI number, then share the IMEI number with your contact.
2.Ask for an account and password from your contact.

After the above two steps done, you can login the tracking platform or APP start to use it.

Login the GPS Tracking Platform

PC platform website: **www.glotracking.com/m**
Phone platform website: **www.glotracking.com/m**
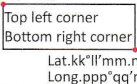
How to Download APP

Please scan the QR code on the bottom left of the webpage to download

More Functions of the Device

Command list is attached as below and if you need help please contact the sales.

Command List

Function	Command	Example
Set authorized phone number	123456Ax,phone number	123456A1,18588955622 x:(1-8)
Set Caller ID display name	123456Ax,phone number, name	123456A1,18588955622,Lucy x: (1-8) name words maximum is 26
Delete the authorized phone number	123456Ax,D	123456A1,D x: (1-8)
Set call to two-way call mode	123456U0	The default setting is 123456U0. When you make a phone call to the device, it will be two way call mode.
Set listen-in mode	123456U1	When you make a phone call to the device, it will be listen-in mode.
SOS mute call	123456U2	It will be listen-in mode when making a SOS call.
SOS audio call	123456U3	It will be 2 Way audio call when making a SOS call.
Set whether the call needs to be verified as an authorization number	123456Q2,x	123456Q2,1 x: 0=Only authorization number can make a call to the device. 1= Device can answer any call (Default is 0)
Set two-way call mode, the call can take the initiative to answer or hang up	123456Q3,x	123456Q3,1 x: 0=The device takes the initiative to answer the call 1= You can pick up the incoming phone by pressing call button or hang it up by pressing SOS button(Default is 0)
Set turn on voicemail recognition	123456Q4,1	After this function is enabled, when there is an SOS/BMA alarm and the call is successfully made, the recording is played to the other party, prompting the other party to press 1 to confirm that the call is answered manually. If the other party does not press the button 1 within 20 seconds, the machine will hang up automatically, dial the next phone number. Note:This function is only for 4G device, don't support 3G.
Set turn off voicemail recognition	123456Q4,0	The default is turn off
Set fall down alarm	123456KLxxx	123456KL045 xxx: Fall down threshold(Sensitivity), 000≤xxx<255, 000=Close the fall down alarm function. Suggestion: xxx=050

Set collision alarm	123456KHxxx	123456KH090 xxx: Collision threshold (Sensitivity), 000≤xxx<255, 000=Turn off the collision alarm function Suggestion: xxx=090
Single positioning	123456F	
Set GEO electronic fence alarm	123456Ix,y,z,aabbccddefffgghhiijkkllmmnnepppqqrrss Lat.aa°bb'cc.dd" Long.fff°gg'ff.ii" Top left corner Bottom right corner Lat.kk°ll'mm.nn" Long.ppp°qq'rr.ss"	123456I1,1,1,51113525N009125670E50241115N011011173E 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 over-speed alarm	123456Jx,yyy	123456J1,080 (X:0=off, 1=on) yyy: Speed alarm threshold (000-255)
Set OLED screen extinguishing time	123456L2,xx	123456L2,05 xx:00 mean OLED screen display always on,The maximum is 99
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
Set battery low alarm	123456Nx,yy	123456N1,30 x: 0=turn off, 1=turn on yy: Low battery value (<45)30
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;	

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 tracker	123456K	The device will be turned off automatically.

Reset the Device

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

Notice: The device will restart after sending the message 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.