

Personal GPS Tracker TL-BC01 User Manual

1. Appearance



TL-BC01 is waterproof IP67 GPS personal tracker developed by Toplove. With two-way communication, SOS alarm, fall down alert, auto tracking and precise positioning, it is perfect for children, elderly people, lone workers, patients and staff. You can implement real-time tracking anywhere via the mobile phone APP or tracking platform. It helps to protect everyone who you care about.

2. Specifications

| Content | Specs |
|--|--|
| 2G | Europe: 900/1800MHz |
| 3G HSPA Bands | America: B2/B4/B12 Europe: B1/B8 Australia: B1/B5 |
| 4G LTE CAT-1 Bands | Europe: B1/B3/B7/B8/B20 America: B2/B4/B12 Australia: B1/B3/B5/B7/B8/B28 |
| Dimensions | 95mm*65mm*12mm |
| Weight | 22.5g |
| Waterproof Level | IP67 |
| Color | Grey /Black |
| GPS Sensitivity | Tracking: 165dBm Re-acquisition: 164dBm Acquisition: 148dBm |
| GPS Accuracy | ±10m |
| GPS Start time | Cold start: 30s Warm start: 12s Hot start: 1s |
| Battery Capacity | 1100mAh |
| SIM Card Type | Nano SIM |
| Firmware Upgrade Mode | OTA/USB |
| Maximum Standby Time | 7 Days |
| The Longest Working Time (3Min upload data once) | 72 Hours |
| Regular Charge Current | 500mA (Max) |
| Charging Time | 3-4 Hours |
| Wireless 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. ID card, student card or business card holder

The device could be discreet and work as card holder. It is quite useful to protect us in our daily life.



5. Inserting a nano SIM card

Open the SIM card cover by screwdriver, put SIM card into the card port in proper direction. And then please tighten the sim card cover to protect the sim card and 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.

6. 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.

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

7. 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: **123456A1,1858895622**, shown as the following picture:



13. Fall down alert

Send command **123456KLXXX** to set threshold, XXX is 3 digital number (000xxx<255). 000 means to close the fall down alarm function and 255 means the most sensitive fall detection.
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 first authorized phone number and give call to A1-A8.

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



14. 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.



15. 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 GPS.
Note: Please confirm the SIM Card GPS 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 in 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.

16. Pedometer

Pedometer is to keep track of your steps and upload the data to server. It will clear the steps off at 00:00 every day.

17. Support GPS & WIFI dual positioning functions (Optional)

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.

18. 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 | 123456A,phone number | 123456A,1858895622 x: [1-8] |
| Delete the authorized phone number | 123456A,D | 123456A,D x: [1-8] |
| Set contact name display | 123456A,phone number,name | 123456A,1858895622,Lucy x: [1-8] name words maximum is 26 |
| Set router's user name and password | 123456WIFI,xxx,yyy | xxx: means user name yyy: means password |
| Set the number of WIFI included in the GPS protocol | 123456W | 123456W X range is 0~3, 0 means WIFI information is not included in protocol. |
| Set call to two-way call mode | 123456J0 | The default setting is 123456J0. 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 | 123456J2 | It will be listen-in mode when making a SOS call. |
| SOS audio call | 123456J3 | It will be 2-Way audio call when making a SOS call. |
| Set whether the call needs to be verified as an authorization number | 123456J2,1 | 123456J2,1 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 | 123456J2,x | 123456J2,1 x: 0-The device takes the initiative to answer the call 1-You can pick up the incoming phone by pressing function 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/fall down alarm and the call is successfully made, the recording is played remotely 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. Please, dial the next phone number. |
| Set turn off voicemail recognition | 123456Q4,0 | The default is to turn off. |
| Set fall down alarm | 123456KL,xxx | 123456KL,045 xxx: Fall down threshold (Sensitivity), 000xxx<255, 000=Close the fall down alarm function. Suggestion: xxx=050 |
| Set Low Battery alarm | 123456N,yy | 123456N,30 x: 0=turn off, 1=turn on yy: low battery threshold (less than 40, more than the lowest threshold) |
| Set Fully-charged alarm | 123456N,z | 123456N,2 x: 0=turn off, 1=turn on |
| Single positioning | 123456F | 123456F |
| Set GEO fence alarm | 123456E,x,y,z, aabbccdeffghijklmmnnppqqrrsst | 123456E,1,1,1,111135,25N09125670E,014111011011718 x: Electronic fence number group (1-5) y: 0=turn off, 1=turn on z: 0=come in, 1=come out e: North latitude, South latitude j: East longitude, West longitude |

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.

8. SOS emergency call

Long press SOS button until the device vibrates. SOS alert will be triggered. It will send SOS message to the authorized phone numbers A1-A3 and make a two-way call to the authorized phone numbers A1-A8.

Note: If A1 misses the calling, the device will call to the next authorized phone number until someone answers.

9. Pull lanyard off alarm

If someone pull lanyard off, tracker will beep 1 minute. If lanyard is placed back and it will stop the beep at once.

10. Make a phone call by the device

Long press the button CALL button for 1 second, user select the phone to call and click. Then the device can be released until it vibrates and the GSM or GPS indicators flash quickly. You can hang up the phone call by pressing SOS button.



11. Answer 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 function button and hang up the phone by pressing the SOS button.

12. Listen-in function

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

| Function | Command | Example |
|--|---------------------------|--|
| Set OLED screen extinguishing time | 123456L,xx | 123456L,20 xxxx mean OLED screen display always on, The maximum is 99 |
| Set local time zone | 123456L,xy | 123456L,08 (Default time zone is +08) |
| Set continuous tracking time | 123456M,yyyy | 123456M1,005M x: 0= turn off, 1=turn on yy: Set the time (003:255) z: S=seconds, M=minute, H=hour |
| Ask for the version of IMEI, hardware and software | 123456B | 123456BCCMMNET,112.124.14.58:9289 |
| Set APN, IP and port | 123456CAPN,IP,Port | The user can obtain APN from the local SIM card operator |
| Turn on GPS | 123456D | 123456D |
| Turn off GPS | 123456E | Default is off |
| Set GPS user name and password | 123456O,8&&,8&&,8&&@#@ | 123456Ointernet,internet123 &&&: GPS user name @#@@: GPS password |
| Set GPS domain name, port | 123456Rhttp://Domain;Port | 123456Rhttp://taohong.vicp.net,6000 Domain: Domain name Port: The port number |
| Delete the GPS domain name, port | 123456R; | 123456Rhttp://taohong.vicp.net,6000 Domain: Domain name Port: The port number |
| 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 | 123456t | The device will be turned off automatically. |

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

19. 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 overheat or overcool 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.