

Personal GPS Watch TL-901

User Manual



TOPLOVO

Contents	Page
Welcome	1
Introduction.....	1
What is in the Box	1
Getting to Know TL-901	1
Hardware Description	1
Specification	2
About the Screen	2
About Charging	2
How to Use Your Device	3
Put the SIM Card	3
Switching the Device On and Off.....	3
Set the Authorized Phone Numbers	3
Make the SOS Emergency Call	3
Make a Phone Call by the Device	4
Setup the Alarm Reminder	4
Turn on Health Care Function	5
Setup the Fall Down Alert	5
Setup the Motionless Alarm	5
Setup the Display Screen	6
Setup the Time Zone	6
How to Use the Tracking Platform	7
Connect the Tracking Platform9	7
About the Account9	7
Login the GPS Tracking Platform	7
More Functions of the Device	7
Command List	7
Reset the Device	11
Cautions	11
Warranty	11

Welcome

Introduction

TL-901 is 4G GPS Watch developed by Toplovo. 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. TL-901 Device
- 2. Magnetic Cable
- 3. Wrist band

Optional Accessories:

Charging cradle
Lanyard holder and lanyard
Brooch

Getting to Know TL-901

Hardware Description



Specification

Content	Specs
4G LTE CAT-1 Bands	CN:B1/B3/B5/B8/B34/B38/39/40/B41 EU/AU/NZ: B1/B3/B5/B7/B8/B20/B28 LA: B2/B3/B4/B5/B7/B8/B28/B66
Dimensions	45.6x37.6x12.2mm
Weight	28g
Waterproof Level	IP67
Color/Wristband	Black or Customized
GPS Sensitivity	Cold start:-149dBm Warm start:-155dBm Hot start:-165dBm
GPS Accuracy	≤10m
GPS Start time	Cold start: 25s Warm start: 5s Hot start: 1s
OLED Resolution	368* 448
Battery Capacity	385mAH
SIM Card Type	Nano SIM
Firmware Upgrade Mode	FOTA/USB
Operating Temperature	-20°C to +65°C
Working Humidity	5%--- 95%

About the Screen



The screen shows date/ time /battery and signal.

About Charging



Support magnetic cable and docking station charging.

How to Use Your Device

Put the SIM Card

Pull out the simcard slot and insert the nano SIM card into the card port.

Switching the Device On and Off

- 1.Connecting the magnetic cable, when hearing “beep”, the device is turning on.
- 2.Long press the power button more than 3 seconds until the tracker vibrates, the tracker is turning on. And long press 5 seconds to turn it off.
- 3.In the powered-on state, touch the display screen to the “SETTINGS” interface, click the “Power” icon, select “Power”, and select “Power”, and click “Power off” to turn off.
4. You can setup the time to turn on or off the device. Touch the display screen to the “SETTINGS” interface, click the “Power” icon, select “TIM Poweron OFF” and “TIM Poweroff OFF” to setup the time.

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,John**

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

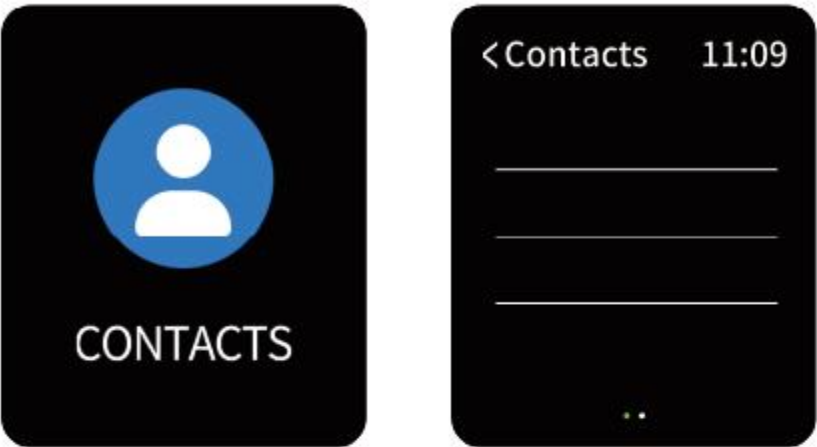
- 1.Press and hold the power button for 1 to 3 seconds. The device will vibrate and release the power button to activate the SOS alarm.
- 2.Short press power button in twice until the device vibrates. SOS alarm will be triggered.
- 3.In “SOS” interface, you can long touch 1 seconds, when device vibration, it will activate the SOS alarm.

It will send SOS message to the first authorized phone number and make a two-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.

Make a Phone Call by the Device

Click the “CONTACTS” icon to enter the contact selection interface. You can switch between four contacts by swiping left or right or up and down.



Select the corresponding contact to make a call

Click the volume icon to turn on the volume adjustment switch. Click the “+” or “-” icon to turn up or turn down the speaker volume. Click the red icon to hang up the call.



Setup the Alarm Reminder

Click the “ALARM” icon to enter the alarm setting interface. Click “ON/OFF”, the icon turns green to turn on, and gray to turn off. Click “Time”, enter the alarm time setting interface. After modifying the time and minute, click “< ”to exit the setting interface. interface.



Turn on Health Care Function

Place the heart rate, blood oxygen detection and body temperature detection sensor piece at the bottom of the watch close to skin.
Click the “HEALTH” icon to enter the heart rate, blood oxygen, and body temperature detection interface.
If the two LEDs can flash red, it means that the heart rate and blood oxygen detection function are turned on.
When the device effectively detects the human body's heart rate, blood oxygen, and body temperature, it will automatically update the display data.
Click “<” to exit detection.



Setup the Fall Down Alert

Click the “FALL DETECTION” icon to enter the fall function setting interface.
Click the “ON/OFF” icon to turn green, which means the function is turned on. If it is gray, it means turn it off.
Click “Threshold>” to enter the sensitivity intensity adjustment interface. The value is more larger, it is more sensitive.
Click “<” to exit function settings.



Setup the NON-MOVEMENT alarm

Click the “NON MOVEMENT” icon to enter the setting interface.
Click the “ON/OFF” icon to turn green, which means the function is turned on. If it is gray, it means turn it off.

turned on. If it is gray, it means turn it off.
Click “Time>” to enter the motionless alarm duration setting interface.
Click “<”to exit function settings.



Setup the Display Screen

Click the “SETTINGS” icon to enter the setting interface.
Click the “LCD>” icon to enter the brightness and screen-off duration setting interface.



Click the “Brightness>” icon to enter the brightness adjustment interface.
The range is 1-5.
Click the “Auto Lock>” icon to enter the screen-off duration adjustment interface.
The range is 5-60.
Click “<” to exit function settings.

Setup the Time Zone

Click the “SETTINGS” icon to enter the setting interface.
Click the “Time Zone>” icon to enter the time zone setting interface.
If you need to display the 12-hour time, click the 12 Hour switch to turn it on.
If you need to turn on the Summer Time function, click the “DST” switch to turn green (currently the standard firmware only supports daylight saving time in Australia).
If you need to turn on the automatic acquisition of the current time zone, click the “Auto Zone” switch to turn green to turn it on, but it requires local network support.

If you need to manually modify the time zone, turn off the “Auto Zone” switch and click “Set Zone>” to enter the time zone setting interface. Click “<” to exit function settings.



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.)

More Functions of the Device

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

Command List

Functionion	Command	Example
Set authorized phone number	123456Ax, phone number	123456A1,18588955622 x: (1-8)
Delete the authorized phone umber	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.

Functionion	Command	Example
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 fall down alarm	123456KLxxx	123456KL045 xxx: Fall down threshold (Sensitivity), $000 \leq xxx < 255$. Suggestion: xxx=050 123456KL000 turn off the fall down
Set GEO fence alarm	123456Px,yyy	123456P1,050 x:0=turn off,1=turn on yyy: Distance from current coordinates (less than 250, unit: 10m) When the distance moved by the locator exceeds the set value, the device will send an alarm message.
Set alarm clock	123456L5, hh:mm	123456L5,08:00 Hh=hours Mm= minutes 123456L5, mean close the alarm clock

Functionion	Command	Example
Set motionless alarm	123456M3,xxx	123456M3,060 xxx:=minutes(1-1440) xxx=0 mean turn off
Set display temperature as Celsius or Fahrenheit	123456Tx	123456T0 x=1 means Celsius x=0 means Fahrenheit
Set high temperature alarm	123456T2,xx.x	123456T2,37.3 xx.x the unit is Celsius 123456T2,0 means turn it off
Turn on/off the health detection	123456T3,x	123456T3,1 x=0 means stop the heart rate, blood oxygen and body temperature test x=1 means start the heart rate, blood oxygen and body temperature test x=2 means restart the heart rate, blood oxygen and body temperature test
Set heart rate threshold detection alarm	123456T4,xx,yyy	123456T4,60,120 xx: the low heart rate threshold, 0 means turn off the detection yyy: the high heart rate threshold
Set blood oxygen threshold detection alarm	123456T5,xx	123456T5,80 xx: threshold, 0 means turn off the detection
Set local time zone	123456Lxyy:zz	123456L+08:00 x:+=Eastern -=Western yy=hours zz=minutes
Single positioning	123456F	
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

Functionion	Command	Example
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	
Search user setting	123456G	A;B;C;D;E;F;G;H;3gnet;;;;;- Speed:80;0;0;0;0;1;BAT:100,30 %,10S,Lg:0,Ag:0
Set APN, IP and port	123456CAP-N,IP:Port or 123456C,AP-N,U,IP:Port	123456CCMNET, 112.124.14.58:9289 The user can obtain APN from the local SIM card operator; If wants to delete all, can send 123456C. U=UDP Protocol, if not setup U, it means use TCP connection
Turn on GPRS	123456D	Default is off
Turn off GPRS	123456E	
Turn off the tracker	123456K	The device will be turned off automatically.
Set GPRS user name and password	123456O&&&,@ @ @	123456Ointernet,internet123 &&&: GPRS User name @ @ @: GPRS password
Set GPRS domain name, port	123456Rhttp://Domain;Port	123456Rhttp://liao-hong.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
Reset the device	RESET!	this command to upgrade tracker into the latest version.

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.Keep the unit dry. Any liquid, i.e. rain, moisture, may destroy or damage the inside circuitry.
- 2.Don't put the unit in overheated or overcooled places.
- 3.Handle carefully. Don't vibrate or shake it violently.
- 4.When the unit is touched with water, clean it with a piece of dry cloth. Don't clean in chemicals, detergent.
- 5.Don't paint the unit, this may cause some foreign materials left in between the parts.
- 6.Please don't disassemble or refit the unit. The system should be installed by technical personnel.
- 7.Please use the battery and charger provided by manufacturer. Using other batteries and chargers will cause unwanted situation.
- 8.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).
- 9.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.
- 10.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.