

GPS Watch Tracker UP103

User Manual



Preface

Thank you for purchasing the tracker. This manual shows how to operate the device smoothly and correctly. Make sure to read this manual carefully before using this product. Please note that specification and information are subject to changes without prior notice in this manual. Any change will be integrated in the latest release. The manufacturer assumes no responsibility for any errors or omissions in this document.

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1. Summary

Working Based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS or internet.

2. Applications

- Protect child / the old / the disabled / pet etc
- Provide peace-of-mind for businessmen and Personnel Management

3. Hardware Description



No.	Name	Function
①	MIC	Microphone, monitor
②	USB port	Charging, Headset call, set the parameters.
③	ON / OFF button	Turn on/turn off/Back/hung up
④	SOS button	Emergency help
⑤	PAGE button	Page Up / Page Down
⑥	Call button	Pick up / Call
⑦	Speaker	Send voice

4. Specifications

Content	Specifications
Dim.	59x44x20mm
Weight	55g

Network	GSM/GPRS
Band	850/900/1800/1900Mhz
GPS sensitivity	-159dBm
GPS accuracy	5m
Time To First Fix	Cold status 45s Warm status 35s Hot status 1s
Charging Voltage	5V
Battery	Chargeable changeable 3.7V 550mAh Li-ion battery
Standby	100 hours
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +55°C
Humidity	5%--95% non-condensing

5. Usage

5.1 SIM card installation

Make sure that there is no call transfer and call display is on, and PIN code off. The SMS message must in Text format, can't be identified for PDU format.

5.1.1 Open the rear cover.

5.1.2 Push the foil as arrows indicated and lift up the foil.



5.1.3 Put the SIM card into the slot, push foil back and press it to lock it.

5.2 Battery and Charger

Do charge the battery to capacity in 8 -12 hours for first time. Please use the battery and charger provided by the manufacturer. This unit adopts built-in Li-ion battery, and full battery can standby 100 hours. After first use, the battery usually should be charged fully in 2-3 hours.

5.3 Cautions:

A: For its Li-ion battery, which contains harmful chemicals and may burst, please don't bump, puncture it violently and keep it off fire.

B: Please charge the battery in time to keep it working normally.

5.4 Startup

Put the SIM card and battery in place.

Turn on the unit outdoors by pressing the “on/off” button until the screen is on.

For first use, please initialize the unit and restore it to default setting.

In 10 or 40 seconds, the unit will begin to work and acquire the GSM signals as well as the GPS signals.

When this unit receives GPS signals normally, you can use it and do any setting as the instructions of this manual.

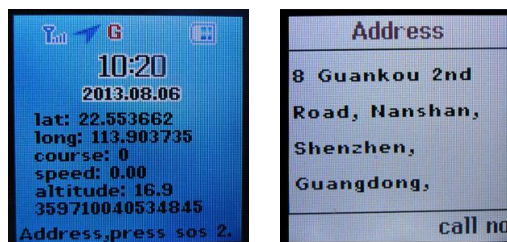


Standby interface

5.5 My Location

The main interface shows current position with latitude & longitude, time, speed, direction and altitude.

Press SOS button twice to get the current address (Please refer to 5.33.1 and 5.33.2 to configure the APN), it will show absolute street address on screen, press “on/off” button to quit and the absolute street address will delete automatically.



5.6 Dial a Phone

5.6.1 Enter to phonebook by press call button of main interface, choose authorized cell phone No. or other preset cell phone No. via page button, you only can call the authorized cell phone No. if there is no preset cell phone No., press call button to call and press “on/off” button to end the call.



5.6.2 Speaker mode is default .It will be automatically turned off when headphone is connected to gps device for phone calls.

5.6.3 Adjust volume: Under communication state, short press PAGE button to turn up volume and short press SOS button to turn it down.

5.7 Text Message

Non-command SMS message from authorized number will automatically pop up .Short press Call button to reply “No”, short press SOS button to reply “YES” and messages will be deleted. If you don’t want to reply, just short press on/off button to quit and delete the message

5.8 Route logging and repeat

5.8.1 GPS device will enter Select interface after long press PAGE button in main interface, please operate according the tips. Select Route Logging and short press SOS button to enter, the last route will be deleted if New Route option is selected .If Old Route option is selected, the old route will be kept and new route will be recorded in the meantime .Position data will be recorded every 10 seconds (No longer than 1 hour is recommended), short press on/off button to stop and save data.

5.8.2 GPS device will enter Select interface after long press PAGE button in main interface. Select Route Repeat and short press SOS button to enter. Route logged will display on screen and current location will display every 2 seconds. In case of a deviation, please adjust route accordingly. Short press ON / OFF button to exit.



5.9 Tracking another gps

5.9.1 This function is used to track another gps tracker's direction & distance and display it on screen in order to approach it quickly.

5.9.2 Establishment of relations between Manager and managed device

5.9.2.1 For Manager device :send sms command "manager+password+space+ managed gps sim number" to manager device , "manager ok!" and this gps is authorized as manager device.

5.9.2.2 For Managed device: send sms command "bmanager+password+space+manager gps sim number" to managed gps, "bmanager ok!" will be replied and this device is authorized as managed device.

5.9.3 Activate tracking another GPS

5.9.3.1 For manager device, long press CALL button on main interface to enter tracking interface to track the managed device. Relative position direction and distance will be displayed for quickly approach.



5.9.3.2 Short press on/off button to exit.

5.9.4 Single way track and 2-way track

5.9.4.1 Single way track: In case of a manager device and managed device, the manager device can track managed device.

5.9.4.2 2-way track: In case of 2 manager device, they can track each other in the meantime.

5.10 Initialization

Send SMS "begin+password" to the unit, it will reply "begin ok" and initialize all the settings to default factory settings. (default password: 123456)

For example: send SMS "begin123456", it will reply "begin ok".

50.11 Change Password

5.11.1 Send SMS “password+old password+space+new password” to the unit to change the password.

For example: send SMS “password123456 888888” to the unit. If succeeded, “password ok” will reply to your cell phone from the device tracker.

5.11.2 Be sure to keep the new password in mind, you have to upload the software to restore the original setting in case of losing the new password.

5.11.3 Attention: Make sure the new password is in 6 digits Arabic numbers, or else the tracker cannot recognize the password.

5.11.4 The “+” in the command, please don’t type “+”, space means press the space keyboard on your cell phone

5.12 Authorization

There are only 5 cell phone numbers able to be authorized, be sure to set the authorization phone number before use.

5.12.1 Call the tracker for 10 times continuously and get position correctly, then it will make the cell phone number as the authorized number automatically.

5.12.2 Authorization Send SMS: “admin+password+space+cell phone number” to set up a authorized number. The other authorized numbers should be set by the first authorized number. If the number is successfully authorized, the unit will reply “admin ok!” in SMS.

5.12.3 Delete authorization Send SMS: “noadmin+password+space+authorized number” to delete the authorized number.

5.12.4 For roaming purpose, you have to add your country code ahead of the cell phone number, for example, please send: “admin123456 +8613322221111” to tracker to set 13322221111 as an authorized number.

5.13. Terminal (local) Time Setting

5.13.1 Send SMS command “time+space+zone+password+space+time” to the tracker unit, If succeed, It will reply “time OK”

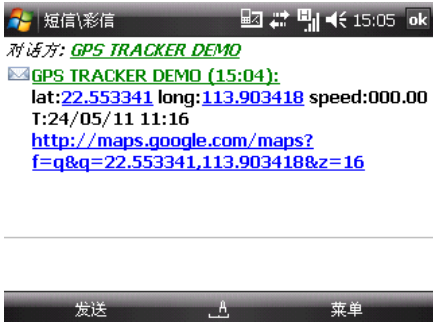
For example: Send SMS “time zone123456 8”, 8 is Chinese time zone, If your country time zone is minus, send SMS “time zone123456 -8”.

5.13.2 In main interface, Short-press button “PAGE” to enter time zone interface And choose local time zone, then short-press SOS button to save

5.14. Single Locating

5.14.1 Any number calls the tracker device, it will reply a SMS including the position of latitude and longitude if authorized number is not set. If authorized number has set successfully, the device won't reply SMS including the positioning of latitude and longitude when the unauthorized number dials up it.

5.14.2 Dialing the tracker device from the authorized number, it will hang up your calling and respond to a real-time latitude and longitude information as following:



The link in SMS can be viewed on the phone directly

When no GPS signal, the SMS includes the last valid latitude & longitude as well as the LAC code of current position, the LAC code can be input in the column of “manual track” menu of web platform to check location.

5.15. Auto track continuously

5.15.1 Track with limited times upon time interval:

Send SMS command “fix030s005n +password” to the tracker device, it will report the latitude & longitude at intervals of 30 seconds for 5 times. (s:second, m:minute, h:hour). This command set must be in 3 digits and the maximum value is 255.

5.15.2 Track with unlimited times upon time interval:

Send SMS “fix030s***n+password” to the tracker device, it will reply the latitude & longitude continuously at interval of 30 seconds.

Note: the interval must not less than 20s.

5.15.3 Cancel: Send SMS “nofix+password” to the tracker device to cancel the “auto track”.

5.16. Absolute street address by SMS

5.16.1 You must set up the APN of your local GSM network for the SIM card in tracker first before using this function, if there is user name and password for GPRS login, please refer to 5.33.1 and 5.33.2 to configure the APN, user name and password for GPRS login)

5.16.2 After configure the APN, send "address+password" to device, it will reply SMS including real street/address name. For example: No.8, Guankou 2nd Rd, Nantou, Nanshan district,

5.17. Track mode

Send SMS “tracker+password” to the unit, and it will reply “tracker ok!” and switch to “track” mode. The default mode is “track”

5.18. Monitor

Send SMS “monitor+password” to the unit, and it will reply “monitor ok!” , Show that switch to “monitor” mode. Call the device again, you can monitor.

5.19.Call

Send SMS “call+password” to the unit, and it will reply “call ok!”. Call the device again, the device will have ringtones notification, press answer button of the device, can talk now.

5.20.Speak

Send SMS “speak+password” to the unit, and it will reply “speak ok!”. Call the device again, it will pick up automatically without pressing any button of the device, can speak now.

5.21.Storage

5.21.1 Auto storage

When the tracker devices lost GSM signals or fall offline from GPRS, tracker will store the tracking position and alerts automatically in the flash upon the pre-set condition, when GSM signals get back, all the event alerts will be auto-sent to the authorized numbers or monitoring platform (server), but the stored tracking data should be loaded to the monitoring platform via SMS command.

5.21.2 Storage upon times: Send SMS: “save030s005n+password” to the tracker unit, it will reply “save ok”, and will store the lat, long locations every 30 seconds for 5 times. (S: second, m: minute; h: hour).

5.21.3 Unlimited storage: Send sms:”save030s***n+ password” to tracker device, it will reply “save ok”.

5.21.4: Storage Clearance: Send SMS: “clear+ password” to tracker device, it will reply “clear ok”.

5.21.5: Storage Volume: store about 16,000 positions, and can be copied to computer by USB data cable.

5.22 SOS Alert

Press the SOS for 3 seconds, it will send SMS "help me!+ Geo-info" to all the authorized numbers and dial all the authorized numbers in turn . It will stop alert when any authorized number answer the call or reply SMS "help me" to the tracker. Sound and interface all closed in the process, entry monitor mode after the authorized number answer the call.

5.23 GPS blind Spot alert

This function deactivates as default, send SMS "gpssignal+password+space+on", it will send alert SMS "no gps+last valid latitude/longitude before lost signal" to authorized phone numbers. Close the function: Send SMS "gpssignal+password+space+off"

5.24. Movement alert

5.24.1.Setting up: when the unit stays immobile in a place for 3-10 minutes with GPS signal reception, the user can send SMS"move+password+space+0200" to the tracker (Suppose area of a radius of 200 meters, it supports 4 digits at most. Unit: Meter). It will reply "move OK". In case of such a movement (the default distance is 200m), it will send SMS "Move+ latitude & longitude" to the authorized numbers at 3 minutes interval.

5.24.2.Cancel: Send SMS "nomove+password" to deactivate the movement alert

5.25.Geo-fence

5.25.1 Set up: When the unit stays immobile in a place for 3-10 minutes, the user can Send SMS: "stockade+password+space+latitude,longitude; latitude,longitude" to unit to set the rectangle district. In case of breach, it will send SMS "stockade!+geo-info" to the authorized numbers every 3 minutes. Remark: The first latitude&longitude is coordinate of the top left corner of the Geo-fence, while the second latitude&longitude is the coordinate of the bottom right corner.

5.25.2 Cancel: Send SMS:" nostockade+password" to deactivate this function.

5.26. Multi-area management

5.26.1 Set Area

Send SMS command "area+password+space+latitude,longitude+space+areaname,distanceM" to tracker(distance unit: M for meter, K for kilometer), it will reply "area01 ok".

Fox example: Send "area123456 22.353648,113.543678 school,800M".

Note: 5 areas at most and the distance between two points can't be less than the total distance in the 2 commands, and different areas can't cover each other.

5.26.2 Delete areas

Send SMS command:"noarea+password+space+area name", tracker will reply:"noarea ok".

5.26.3 Rename and set distance

Send SMS command "rename+password+space+old name;new name, distanceM" to tracker, if name is not repeated and area doesn't cover others, it will reply "rename ok!" for successful

configuration.

Example: Send "rename123456 area01;school,800M", it means the new area name is "school", and covers area of a radius of 800 meters.

5.26.4 Activate multi-area management

Send SMS command "area+password+space+on" to tracker, it will reply "Area on ok!", when tracker enter the pre-set area, it will send SMS "area name+latitude & longitude" to all the authorized phone number, and send same SMS when goes out of the area.

5.26.5 Deactivate Multi-area management

Send SMS command "area+password+space+off" to tracker, it will reply "area off ok!"

5.27 Low battery alarm

5.27.1 Send SMS "lowbattery+password+space+on", it will send SMS "low battery+latitude/longitude" to authorized numbers 2 times in total **in 15 minutes interval** when voltage of battery is going to be about 3.55V.

5.27.2 This function activates as default, send SMS "lowbattery+password+space+off" to deactivate.

5.28. Sleep Mode

5.28.1 Sleep Mode

Send "sleep+password+space+on", tracker will reply "sleep on ok" if none of the alarms/alerts has been set and no operations in 5 minutes, tracker will fall asleep, GPS module shut off, GSM module in lower power consumption standby mode. Calling or SMS can awake the tracker.

5.28.2 No sleep mode

Send SMS "sleep+password+space+off", it will reply "sleep off ok". Tracker won't sleep and GSM, GPS, always work.

5.29 State Checking

Send SMS: "check+password" to the tracker device, it will reply its current status as: GSM: 100% GPS: OK/NO GPRS: ON/OFF battery: 100%.

5.30 IMEI checking

Send SMS command "imei+password" to the unit. E.g.: Send SMS command "imei123456" to the unit, an IMEI number in 15 digits will be replied to your cell phone.

5.31 Reset

Send SMS "reset+password" to tracker, it will reply " reset ok", the GSM and GPS module of the tracker will be reset.

5.32.GPRS setting

User must send SMS via cell phone to set up APN,IP and port before starting GPRS.

5.33.1Setting up APN

5.33.1.1 APN standards for Access Point Name and differs from country to country. For more information about the local APN, inquire with your local GPRS network operator.

5.33.1.2 Text the tracker a SMS "APN+password + Space + your local APN" via a cell phone and if succeeded in setup, the tracker will return the message "APN OK".

5.33.1.3 e.g. send SMS command "APN123456 CMNET". If succeeded, "APN OK" is returned by the tracker in SMS.

Notes: 123456 refer to password of tracker and CMNET is the APN of China Mobile (One of GSM Operator in china).

5.33.2 IP and port setup

5.33.3.1 Send SMS as below via a cell phone: adminip +password + Space + IP Address + Space + Port Number. If succeeded, "adminip OK" is returned by the device in SMS.

5.33.3.2 e.g, Send SMS command "adminip123456 103.24.155.165 6905" to the tracker device, If succeeded, "adminip OK" is returned by the device in SMS.(123456 is default password , 103.24.155.165 is IP, 6905 is port).

5.34.Modes switch between "SMS" and "GPRS"

The default mode is "SMS"

5.39.1 Send SMS "GPRS+password" to the unit, and it will reply "GPRS ok!" and switch to "GPRS" mode.

5.39.2Send SMS "SMS+password" to the unit, it will reply "SMS ok!" and restore to "SMS" mode.

5.35. Setup monitor center number

5.40.1 Setup: send command "centernum+password+space+number" to tracker, it will reply"centernum ok", for example, send centernum123456 13800138000

5.40.2 Cancel: Send “nocenternum+password”.

Note: If monitor center number doesn't setup, auto track messages will be sent to the cell phone which send this command.

6 .Cautions

Please comply with the instructions to extend the unit life:

6.1 Keep the unit dry. Any liquid, i.e. rain, moisture, may destroy or damage the inside circuitry.

6.2 Don't use & store the unit in dusty places.

6.3 Don't put the unit in overheated or overcooled places.

6.4 Handle carefully. Don't vibrate or shake it violently.

6.5 Don't disassemble or refit the unit.

6.6 Please read the user manual carefully before using the device.

7. Faults & The solutions

Faults	Solution
Fail to turn on	Check the battery and see if it is charged.
No GSM Signal	Please make sure SIM Card is GSM Net and installed correctly, also call display should be on; but no call transfer and PIN code off.
No GPS Signal	Make sure the device can receive the GPS signal normally.
SMS reply fail	Password incorrect or wrong sms commands format
Call without SMS reply or can not receive alarm SMS	Authorized number is wrong or without setting any authorized number