

GPS TRACKER USER MANUAL



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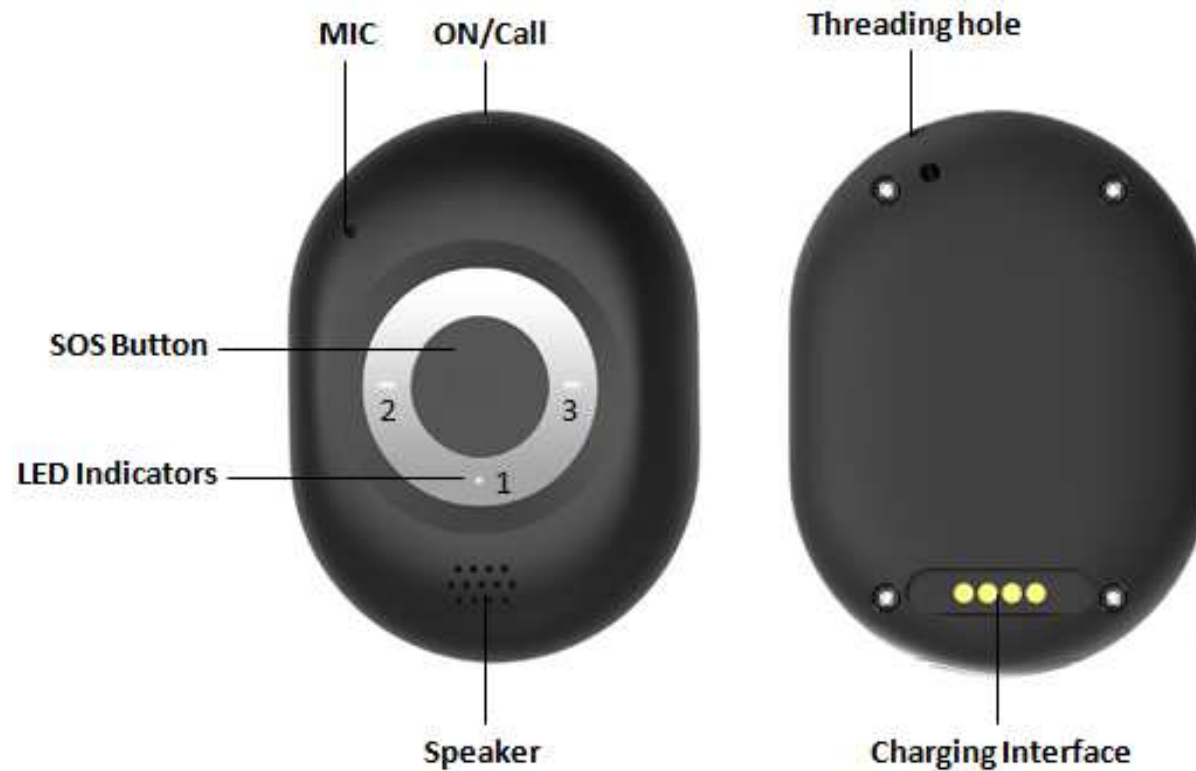
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1, Overview

Please read 'me' carefully so that 'we' can know each other better. I'm sure 'we' can work together very well soon. 'We' are focus on Elderly and children care & track based on gps and gsm technology; also 'we' are suitable for various life scenes such as travel, outdoor sport, and luggage, pet and so on, ready start our journey.

1) Structure (know me in details: what I have?)



2) Features (what I can do?)

1. Mini sized, can be hung on the neck or wear on your hands
2. Real time tracking by GPS, AGPS, LBS and WiFi(optional)
3. Dual alarm way: Shock alarm and Voice alarm
4. Fall down function very suitable for children, elderly and patient.
5. AGPS, TTFF in 30 seconds (10 seconds for GPRS included).
6. Magnetic suction charging way
7. Rechargeable 800mAh Lithium battery, standby time over 30days.
8. Voice monitoring and Two way Voice communication
9. SOS emergency button
10. Geo-fencing alarm
11. Movement alarm and Over speed alarm
12. GPRS blind area data re-upload function
13. GPS signal lost and recovery alert
14. Reply map link of current position
15. Real-time tracking platform and mobile APP
16. Use Nano SIM Card
17. Remote upgrade function
18. Certified with CE, RoHs and SAR Certications
19. Waterproof IPX6

3) Hardware specifications (what makes me?)

No.	Items	MT018 Hardware Specifications
1	Size	60mm* 45m* 18mm
2	Weight	<60g
3	3G WCDMA Frequency	UMTS/HSPA 850/900/1900/2100 MHz
4	GPS Chip	U-Blox sara(Support AGPS)
5	GPS Sensitivity	-163 dBm
6	GPS Accuracy	<3m
7	WIFI Accuracy	<3m
8	WIFI Frequency	802.11 b/g/n, 2.4G
9	Sensor	Motion & vibration sensor
10	Connectors	4 Pin-Magnet for charging
11	Microphone & speaker	Built-in
12	Antenna	Built-in ceramic and FPC antenna
13	SIM card slot	Nano SIM card
14	Charging Voltage	5V DC
15	Battery	Chargeable 3.7V 800mAh
16	Standby Current	≤2mAh
17	Temperature	Operating Condition:-20°C to +65°C Storage Condition:-30°C to +60°C
18	Relative humidity	5% -95% noncondensing

2, Operation (How to use me? Little more steps pls be more patience)

1) Install the SIM card

The SIM card is not included in the package. A Nano SIM card is available from the user's local operator.

- A) Unscrew the back cover and remove the cover.
- B) Insert SIM card and make sure it's activated with credits
- C) Put the cover back and tighten the screws.



Note: Before installing the SIM card, check if the SIM card has PIN code or not, if yes, please use a cell-phone to unlock the card's PIN code.

2) Device Charging

Note: For the first time use, please fully charge the battery for around 3 hours.

- A) Using the USB connection terminal connect to the designated AC power source (USB/AC adaptor).
- B) Connect the Magnetic connection terminal to the charging interface of the device.

When charging, the RED LED will be lighting Solid. After fully charging, the RED LED will turn off.

3) Turning the device on/off

- A) Turn on: press the side button (ON/CALL) for 1 second, the LEDs will flash rapidly once, and then the device is turned on.
- B) Turn off: press and hold the side button (ON/CALL) and SOS button together for 1 second until the LEDs off.

Note: In order to get an initial location and locate on the satellites more easier, please use outdoors or near a window.

4) The meaning of LED indicators

LED1 (Red-mid)	Light Solid (not flashing)	Red blinking slowly	Red OFF
	The device is charging	Battery power is lower than 15%	Device has been fully charged or not charging
LED2 (Yellow-left)	Light shows a flash rapidly every 3 seconds	Light shows a double flash rapidly every 3 seconds	Light shows a slow flash every 3 seconds
	The device is connected to the GSM network	The device is registered to the GPRS network	The device is connecting to the GSM network
LED3 (Green-right)	Light shows a flash rapidly every 3 seconds	Light shows a slow flash every 3 seconds	Blue Off
	The device has a GPS positioning fix	The device has no GPS fix	The GPS chip is sleeping

5) Trigger SOS alarm

Press and hold the SOS button for 3 seconds until the device vibrates, and then yellow light will start to flash rapidly to confirm the request. After that, an SOS Alarm "Help me! SOS!" will be sent to all authorized phone numbers by text message and to the platform by GPRS. It will also dial the 5 authorized numbers in sequence. If the tracker fails to connect to the first number, it will call the second number after delay of 10 seconds. (In this time, user can prevent a possible false alarm by pressing SOS button). In case the second number fails to be connected as well, the system will connect to the third number etc. Between each call, it will have 10 seconds delay, user can press SOS button to stop to call next number.

To end the call and sequence, user can press SOS button or the receiver of the call can answer and press '0' on their mobile phone to stop it.

6) Making Telephone Calls

To make a call, press and hold the side button for 3 seconds and you will hear a beep. The yellow light will flash rapidly to confirm the request, and then it will dial the first authorized number default or dial the setting number. To end the call, press the SOS button.

3, Command set

Note: All commands text no spaces and case-insensitive

1) Working mode

No.	Mode type	Command	Example	Instruction
1	Live Tracking Mode	MD1	MD1	Feedback: Power saving off! In this mode, Both GSM and GPS chip are always working, Battery can last 12~24 hours
2	Smart Power Saving Mode	MD2	MD2	Feedback: Power saving mode on! In this mode, GSM/GPRS chip is always working to receives calls, SMS and transmits location. GPS chip is off when there is no movement or no phone usage/alarm/SMS. The GPS chip is activated by motion, incoming calls and SMS. Battery life is not wasted when the device isn't moving. Under normal use, battery can last 2 ~ 5 days.
3	Deep Sleeping Mode	MD3,xxm/H	MD3,05M	Feedback: Deep sleep on! 5 minutes. xx = 00 ~ 99, m =Minute, H =Hour; Both GSM and GPS chip will be off to save power, the device is unable to receive calls or SMS. It can be only activated by movement. Once movement is detected, it will run for the set time and sleep again if no movement is detected. Battery can last 40 days if no movement at all.
4	Working Mode (default working mode)	MD4	MD4	Feedback: Press button to active GPS working mode on! In this working mode, device can always receive SMS, calls. But GPS chip only wakes up and updates location to the tracking platform if user press button or receive phone call/text message. Without press button or phone call/message, GPS chip will always sleep.

5	Time Interval Working Mode	MD5,XXM/H	MD5,30M	Feedback: Time interval to active to GPS working mode On! xxx = 00 ~ 99, m =minute, H =hour; In this working mode, device can always receive SMS, calls. And it updates location to the tracking platform according to the time you set. Device will update location to the tracking platform every 30 minutes.
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2) Configuration and Operation by SMS

No.	Function	Command	Example	Instruction
1	To Set the Authorized Number	N1/2/3/4/5,phone number	N1,12345678900	Feedback: Set phone number N1 OK! It is not mandatory for all three of the authorized numbers to be set, however a minimum of one must always be set
	To delete this number	N1/2/3/4/5,0	N1,0	Feedback: Del phone number N1 OK!
2	Incoming call control (Default off)	IN0	IN0	Feedback: Cancel OK! After send IN0, device can answer the call automatically from all numbers.
		IN1	IN1	Feedback: Set OK! After send IN1, device only answer the call automatically from authorized numbers. (authorized numbers mean number N1~N5)
3	Modify the time zone	TZ+00/-00	TZ+02	Feedback: Set time zone OK! UTC time has been set as default time. TZ+02 means the system will add 2 hours based on the UTC time. Note: the time must amounts be in 2 digits and at maximum 23 hours in value. "+" in the "time zone" portion of the text indicates east. The symbol "-" in the "time zone" indicates west.
4	Defined name	name1,user name	name1,AAA	Feedback: AAA, Add name OK! The default name is empty
	Delete name	name0	name0	Feedback: Delete name OK!

5	Get location information	locate	locate	<p>Reply with coordinates and web link Feedback: GPS Info!</p> <p>Time: xxxx; Lat: xxxx; Lon: xxxx; Speed: xxKM/H, Bat: 56%, maps.google.com/maps?q=xxx.575640,xxx.864390</p> <p>Put coordinates to Google earth or Google maps. Click on search button, then you will find the position fixed. Click on the link then the location can be shown directly on Google Map on your mobile phone.</p>
6	Low battery alarm (Default on)	low1	low1	<p>Feedback: low battery alarm on!</p> <p>When the unit's battery is less than 15%, it will send an SMS alarm "Battery: LOW!" to all authorized numbers. If battery is less than 15%, the red light will flash rapidly to warn the user to charge the device ASAP.</p>
		low0	low0	Feedback: low battery alarm off!
7	Command password protection (Default off)	123456Lock	123456Lock	<p>Feedback: LOCK OK!</p> <p>After send this command, then it will require a password in front of all commands (except reboot). For example 123456N1 etc.</p>
		123456UNLock	123456UNLock	Feedback: UNLOCK OK!
8	Change password	OLD PASSWORD+ TO +NEW PASSWORD	123456TO666666	<p>Feedback: Password changed</p> <p>The password is changed to 666666. Make sure the new password is in 6 digits, or else the tracker cannot recognize the password.</p>
9	Geo-fence alarm (Default off)	GeoN,A,B,xxxM/KM	Geo1,1,1,200M	<p>Feedback: Set Geo fence alarm 1 OK!</p> <p>N = Geo-fence number (1 ~ 3) , user can set three Geo fences; A = 0 means to turn off the function; A = 1 means to turn on the function; B = 1 means to set alarm when the tracker enters the preset area B = 0 means to set alarm when the tracker breaches the district xxx is the preset distance to the tracker's original place, must be 3 digitals and above 100m. M means meters, KM means kilometers</p> <p>The device will send the message to the authorized numbers as "Geo fence alarm!+GPS info" when it enter the area you set.</p>

				(User must set this function when the green light is flashing rapidly.)
	Delete Geo-fence	Geo1,0 or Geo2,0 or Geo3,0	Geo1,0	Feedback: Geo fence alarm 1 off!
10	Over speed alarm	speed1,Speed	speed1,100	Feedback: Set over speed alarm OK! 100Km/h Current Speed: 0Km/h The speed must be in km/h in 3 digitals. (001~255km/h); Suppose the over-speed alert that we want to set is 100km/h, when the device exceeds 100km/h, it will send the message "Over-speed! +GPS Info" to all registered phone numbers.
	Turn off over speed alarm (Default off)	speed0	speed0	Feedback: Cancel over speed alarm OK!
11	Movement alarm	MV1,xxxM/KM	MV1,200m	Feedback: Set movement alarm OK!200m xxx must be 3 digitals and above 100m. M=meters, KM= kilometers The tracker must be stationary when setting this function; When the tracker moves beyond 200 meters, it will send an SMS alarm to all registered phone numbers.
	Turn off movement alarm (Default off)	MV0	MV0	Feedback: Movement alarm off!
12	Listen-in function (Voice wiretapping)	Listen1	Listen1	Feedback: Listen-in on! N1, N2, N3, N4, N5 can make a silence call to the tracker. The tracker answers the call automatically and allows the caller to hear what is happening around the tracker. There is no voice indication that the call is in progress.
	Turn off listen-in function (Default off)	Listen0	Listen0	Feedback: Listen-in off!
13	Sound function (Default on)	sound1	sound1	Feedback: Set OK! After send this command, when device accept incoming calls, device will make a ring sound and also vibrate.

	Turn off Sound function	sound0	sound0	Feedback: Set OK! After send this command, when device accept incoming calls, device will not make a ring sound, only vibrate.
14	LEDS function (Default on)	LED1	LED1	Feedback: LEDs on!
	Turn off LEDES	LED0	LED0	Feedback: LEDs off! The device LEDs will stop flashing, but the device is actually on.
15	To set number for the side(on/call) button (Default N1)	C,123456789	C,123456789	Feedback: Set OK! Side button can be configured to call anyone number, if set N1 means it will call number N1. If you have not set it will call number N1 default
16	Fall down alarm (message alarm)	FD1,1 or FD1,2 or FD1,3 or FD1,4 or FD1,5 or FD1,6 or FD1,7 or FD1,8 or FD1,9	FD1,5	Feedback: Falling detection on! Set FD1 OK! 1 equals most sensitive, 9 equals least sensitive; After send FD1, device will send SMS alarm to all registered phone numbers once detect fall. The authorized numbers will be alerted without the user pushing SOS button when the fall sensor is activated. If this situation may cause false alarm, users can manually cancel the fall alert by pressing SOS button during its beeping
	Fall down alarm (message and call alarm)	FD2	FD2	Feedback: Set OK! After send FD2, device will send SMS alarm to all registered phone numbers once detect fall, It will also dial the authorized numbers in sequence
	Turn off fall down Alarm function	FD0	FD0	Feedback: Falling detection off! Default off
17	Turn on dial function (Default on)	DIAL1	DIAL1	Feedback: Set dial alarm OK! With this command, all registered numbers can receive the call from device if has SOS alarm or fall alarm
	Turn off dial function	DIAL0	DIAL0	Feedback: Dial alarm off! With this command, all registered numbers can't receive the call from device if has SOS alarm or fall alarm.
18	Turn on SMS alarm (Default on)	SMS1	SMS1	Feedback: Set SMS alarm OK! Enable SMS and GPRS alarms

	Turn off SMS alarm	SMS0	SMS0	Feedback: SMS alarm off! It only sends alarms via GPRS to the platform and without text message to the authorized numbers.
19	Check device status	status	Status	Feedback: N1; N2; N3; N4; N5; Speed:0,100km/h; GEO:0,0,0; MV:0,0; LBS:0; LED:0; TZ:2.0; LI:0; MD:4; FD:0,1; Bat:56%; SMS:1; LOCK:0; CALL:0; Note: '1' means that the function is turned on, '0' means that the function is turn off.
20	Reboot device	reboot	reboot	Feedback: reboot ok! The device will restart itself without changing any settings.
21	Default device	default	default	Feedback: default ok! There will be sound and vibration to remind when reset is complete. This is to make all settings back to the factory default.
22	Get IMEI	IMEI	IMEI	Feedback: AAA; IMEI:357520072528645; Ver:1.0.0 Build:Jul 25 2019

3) GPRS Settings by SMS

No.	Function	Command	Example	Instruction
1	APN setting (Default is empty, GPRS1 ON, 180S)	APN1,APN,user name,password	APN1,cnnet	Feedback: Set APN OK! GPRS connecting... Note: Some access point name without user name and password, so please leave it blank. ('cnnet' is the APN from the SIM card provider; therefore, the user must set their particular APN for their own country which the unit resides.) Make sure that the SIM card in the tracker supports the GPRS function. The APN can be acquired from your local GSM operators.
2	GPRS Time interval setting	TxxS/M	T08M	Feedback: Set updating time interval OK! 'xx' must be 2 digitals can be set with 01-99; S means second, M means minute. The unit must be second or minute.
3	Turn off GPRS	GPRS0	GPRS0	Feedback: GPRS off!

4	Reconnect GPRS	GPRS2	GPRS2	Feedback: GPRS on! Reconnect the website via GPRS for real time tracking
5	Setting a Heartbeat Packet Reporting Interval	HBxxS/M	HB30M	Feedback: Set heart beat time interval OK! After send the above command, the tracker will send the GPRS heartbeat packet to the platform every 30 minutes in MD1,MD2 and MD4 mode. The heartbeat function is used to keep the platform connection smooth, but GPS positioning data is invalid. The heartbeat packet function is used to keep the Transmission Control Protocol (TCP) connection open when the interval of scheduled GPRS reporting is long. The heartbeat packet function is only available for the MD1, MD2 and MD4 working mode. Note: 'xx' can be set with 00-99; S means second, M means minute.
6	Turn off Heartbeat Packet function	HB00M	HB00M	Feedback: Set heart beat time interval off! When the interval is 0, the heartbeat packet function is disabled.
7	Check APN, IP and Port	CHECK1	CHECK1	Feedback: APN: cnet; Name: xxx; Password: xxxx; Port: 8080; IP:www.xxxxxxxx.com
8	Change IP and Port	IP1,IP/website,port	IP1,0.0.0.0,8080 or IP1, www.xxxxxxxx.com,8080	Feedback: Set IP and port OK!
9	Delete tracking history data	DEL	DEL	Feedback: Stored GPS data deleted! Date:27/05/2019 Time:18:04:53 Speed:0Km/h Altitude:45.1m Bat:52% maps.google.com/maps?q=xxx.575868,xxx.865861 The device will stop sending the stored tracking history data to tracking platform.

4) Real time tracking on platform (TBD)

Open the link (TBD) in your computer and login with your user ID and password. Our web based TCP/IP protocol and allows users to monitor it in real time over the internet. For more information please contact the seller.

4, Notices

Please comply with the instructions to extend the unit life:

1. GPS tracking can be worked outdoor.
2. Please make sure GSM SIM card supports making calls, sending messages, GPRS network.
3. Please make sure GSM SIM card is with sufficient balance.
4. Please make sure the GSM card has opened the call shows and turned off the call transfer.
5. Please insert the GSM phone card correctly.
6. Do not assembly and disassembly device at will.
7. Do not use or store the unit in dusty places.
8. Do not put the unit in overheated or over cooled places.
9. Clear the unit with a piece of dry cloth. Do not clean in chemicals or detergent.

5, FAQ

Note: TBD