

User Manual

AS5 GPS Tracker

(Vehicle/Container)



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1. Product Over view

GPS TRACKER AS5 is the combination of GSM and GPS technology, it uses industrial-grade fireproof material, 6 18MM × 3MM strong magnets , IPX-5 waterproof level, built-in 18000MAH high-capacity Li-Fe battery, battery life time is 15 years, long work time 1-5 years, Magnetic free installation design, easy to use.

Application:

- car rental / small fleet management
- Outdoor Activities
- Child / Elderly / Disabled / valuables custody
- Personal Safety
- Personnel Management
- tracking
- Animal Protection and grazing

For your safety:

In order to realize the full functions of this product, please read this manual carefully before starting to use the product.

1	This product can only be maintained and repaired by qualified professional service personnel. If you detach this product for maintenance or repair, your warranty will be invalidated.
2	When connecting the other devices, read carefully their instruction manuals, so as to carry out correct installation; do not connect incompatible device.
3	Please use genuine original parts and qualified batteries and peripheral equipments, so as to avoid damage to this product.
4	As this product is a high-tech product, please read carefully this manual before starting to use the product, so as to avoid inappropriate operation.
5	Drivers should not operate this product while driving a vehicle, thereby, affecting safe driving.
6	This product can work properly only when GSM communication is in good condition.
7	Please reduce electromagnetic wave interference to the product; and use it properly.
8	GPS communication is liable to be affected by

.	environmental shielding; may fail to carry out positioning during certain circumstances. It will resume the positioning function as soon as it leaves the shielding environment. This is normal. Please do not worry when encountering such problem.
9	Each signal sent out from the system will be confirmed for successful transmission in the base station of the mobile operator. However, if system stoppage occurs or if the mobile telephone is preset to a switch off state by the customer, it cannot ensure successful transmission.
10	For safety reason, do not tell the other people your GPS Tracker SIM number, without taking precautions. Otherwise, your privacy may be compromised along with other safety problem.

2. Specification

Item	Details
Built in battery	18000 mAh Li-Fe Battery
Size	131 mm × 72 mm × 20mm
Weight	300g (including battery)
Operating temperature	-20° to 55° C
Operating Humidity	5% to 95% Non-condensing
GSM Chip	Quad Band GSM 850/900/1800/1900Mhz
GPS Chip	UBLOX7020
GPS sensitivity	--162Db
GPS frequency	L1, 1575.42 MHz
C / A code	1.023 MHz chip rate
Channel	56 channel all-in-view tracking
Location Accuracy	10 meters, 2D RMS
Speed Accuracy	0.1 m/s

Time Accuracy	1 microsecond time synchronization of satellite time
Default Data	WGS-84
Updated Time	average 0.1 sec
Hot Start	Average 1 sec.
Warm Start	average 30 sec.
Cold Start	Average 32 sec.
Maximum Height	18,000 meters (60,000 feet) max.
Maximum Speed	515 meters/second (1000 knots) max.
Maximum Acceleration	Less than 4g
Instantaneous displacement	20 m/sec

3. Installation:

3.1 Product part list

GPS tracker AS5 main unit

3.2 Precaution before Installation

1	Check if all the parts are included.
2	Prepare a SIM card for GSM communication. Use some other mobile phone to confirm that the PIN code has not been set and that it can dial out and receive telephone calls and SMS without problem.
3	Before install the SIM card; make sure to cut off power from the GPS Tracker unit. The correct installation method is to push the tray completely into the GPS Tracker unit, until you feel it is hooked by something.
4	Find a suitable place inside the car for installing the unit. Concealed installation for avoid the thieves damage Avoid install together with the RF source, such as reversing radar, alarm and other vehicle communication equipment. Can use ribbon or wide sponge strength double-faced adhesive stick to fix. Equipment with GSM antenna and GPS antenna,

	<p>installation shall ensure that face up (skyward), and above no metal barrier shield, suggest installation position:</p> <p>Front windshield decorative below the covert, Front panel (skin for non-metal material) around the shadow Rear window below decorative</p>
5	Check if all the wiring has been connected correctly; then connect the GPS Tracker unit to the power supply.
6	We don't provide the SIM card

4. Important Notice

Default user password is 123456

Special Notice:

Insert SIM card to turn on the gps tracker.

This GPS tracker has built in shock sensor.

Default mode, the gps tracker will power on every 24 hours, then work for 3 minutes, power off; after 24 hours, power on again, work for 3 minutes, then power off, continuous loop until the battery used out for 5 years.

Both power on time , and work time can be set via sms command.

Work time set:

If you want to change the gps tracker parameters/or real time tracking, please change to real time track mode.

Command format: DW+A

A=3-300 minutes

Example:DW025

Then gps tracker will work for 25 minutes, then power off. You can set the gps tracker parameters during the 25 minutes when gps tracker power on.

Power on time set:

Command format 1: If GPS tracker does not get valid GPS signal, send below
WT+A,next power on time,present time

A=01-99 hours

Example: WT24,1101,1345

24 means the gps tracker will power on every 24 hours , 1101 means next power on time is 11:01AM next day, 1345 means present time is 13:45PM.

Example:WT01,2027,1825

1 means the gps tracker will power on every 1 hours , 2027 means next power on time is 20:27PM, 1825 means present time is 18:25PM.

Command format 2: If GPS tracker has valid GPS signal, send below

WT+A,next power on time

A=01-99 hours

Example: WT24,1101

24 means the gps tracker will power on every 24 hours , 1101 means next power on time is 11:01AM next day,

Example:WT01,2027

1 means the gps tracker will power on every 1 hours , 2027 means next power on time is 20:27PM

5. Locate by SMS command

Command: g1234

Reply: when the tracker receive the command, then will send the position with longitude and latitude

6. Locate by 900D GPS platform

6.1. First you need to Set Access Point Name (APN)

Command1(No apn user name and apn password): APN123456+Space+APN Name

Example: apn123456 cmnet

Command2 (Need apn user name and apn password):

apnuser123456+Space+APN User name

apnpasswd123456+Space+APN Password

Example: apnuser123456 telecom

apnpasswd123456 abc1234

Remarks:

APN, is gateway to connect internet, Each country is different, please contact your SIM card provider for APN name, and APN User name. password.

In the example: telecom: is GPRS user name, abc1234: is GPRS password

(1)If no APN username and APN password are required, just use Case 1: input APN name only.

(2)Use case 1 andt 2 if your APN requires APN user name and APN password

6.2. Please register the GPS tracker on web platform WWW.GPSPANEL.IR

Scan below QR code to download.



7. SMS Command List

1. Admin phone number

Command: admin+user password+space+admin phone number

Example: admin123456 15919871010

Reply : admin ok

Note:

1. Tracker can have 1 admin number
2. New Number can over write the old number
3. No-admin number also can control the tracker, but alarm information only to admin number

2 . Change user password

Command: password+old password+space+new password

Example: password123456 666888

Reply: PASSWORD OK(password will change to 666888)

3 . Request the single position

4. Shock alarm

Open shock alarm sms alert command: 125#(default)

Cancel shock alarm sms alert command: 126#

Open shock alarm phone call alert command: 122#

Cancel shock alarm phone call alert command: 121#(default)

Set the duration of shock alarm command:vibtime123456,n (n=0-15 seconds, default 3 seconds, n=0 means cancel shock alarm)

5. Movement alarm

Open Command: move123456 300(default)

Reply: Move ok

Note: in the unit of meter

Cancel movement alarm: nomove123456

Reply: No move ok.

6. Geo-fence

Set different shape of geo-fence on the iTrac 900D GPS platform.

7. Over speed Alarm

Command : speed123456+space+T

Example: speed123456 080

Note: T is speed

Open over speed alarm sms alert:speed123456 080

Cancel over speed alarm sms alert: speed123456 000(Default)

8. Battery low voltage alert

While device detect internal battery is low power, it will send coordinate message with STATE:LOW P OWER

9. Sleep mode

Automatic mode (default)

If there are no alarm for 10 minutes, the device enters sleep mode: GPS off, GPRS Off. , the gps tracker will wake up by incoming phone call, sms, or shake.

Command to enable automatic mode: auto123456

Reply: OK

Close sleep mode command: nslp123456

Single mode (sleep mode, you can set the working time , in the unit of minutes)

Command: DW05

Reply: OK

After working five minutes, then the gps tracker will enter to sleep mode.

10. SMS fortification

Open SMS fortification:SF

Cancel SMS fortification:CF

11. Set Access Point Name (APN)

Command1(No apn user name and apn password): APN123456+Space+APN Name

Example: apn123456 cmnet

Command2 (Need apn user name and apn password):

apnuser123456+Space+APN User name

apnpasswd123456+Space+APN Password

Example: apnuser123456 telecom

apnpasswd123456 abc1234

Remarks:

APN, is gateway to connect internet, Each country is different, please contact your SIM card provider for APN name, and APN User name. password.

In the example: telecom: is GPRS user name, abc1234: is GPRS password

(1)If no APN username and APN password are required, just use Case 1: input APN name only.

(2)Use case 1 andt 2 if your APN requires APN user name and APN password

12. Set server IP address and Port

Command: Ip+space+IP Address+ Space+Port number

Example:IP 58.64.205.22 8000

Reply: SET SERVER IP AND PORT OK

13. Set Data upload interval time

Command: upload123456+Space+T

Note: T=1-300 seconds.

Example: upload123456 120

Then the gps tracker will upload location to platform every 30 seconds.

8. Troubleshooting

1/ Why the GPS tracker can not come online on itrac gps tracker ios andriod app

Answer: please register the GPS tracker on web platform

2/ Why the GPS tracker shows "unactive" on www.gpspanel.ir

Answer: please make sure you set the APN correct.

APN is Acess Point Network , each GSM operator has their own unique APN, kindly contact your sim card provider for their APN and set the APN according to user manual please.

3/ Why the GPS tracker led light is off?

Answer: please connect gps tracker with external power to charge the built in battery for 5-7 hours, then try again.

4/ Why it said "log in fail" on on itrac gps tracker ios andriod app "itracksafe"

Answer: Kindly choose the correct server, we have two server

5/ Why the GPS tracker can not come online after i set IP, Port APN

Answer: send sms command 7100000 switch gps tracker to GPRS mode please.