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1. Product Overview

Thank you for your purchase of WT200B GPS Tracker. The WT200B GPS/GSM Tracker is a remote position device with build-in GPS and GSM/GPRS modules. It is a small size, high accuracy remote location tracking device. Based on GPS satellite, it provides accurate position information under dynamic conditions.

Function List:

- Real time tracking via SMS or GPRS
- Track on demand
- Track by time interval
- Listen in (Voice Monitoring)
- SOS panic button
- Geo-fencing control
- Two way voice communication

Applications:

WT200B GPS/GSM tracker can be used for children, adult, senior citizen. The devices built in antenna,

integrative machine and easy to assemble.

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 WT200B mobile number, without taking precautions. Otherwise, your privacy may be compromised along with other safety problem.

2. Specification

Hardware	WT200B
GSM module	MTK program, GSM 850/900/1800/1900 dual-band or
	quad-band Support the TCP protocol
GPS Chipset	SIRF-Star III chipset
GPS Sensitivity	-159dBm
GPS Frequency	L1,1575.42MHz
C/A Code	1.023MHz chip rate
Channels	20 channel all-in-view tracking
Position Accuracy	10 meters, 2D RMS
Velocity Accuracy	0.1 m/s
Time Accuracy	1 us synchronized to GPS time
Datum	WGS-84
Reacquisition	0.1 sec.,average
Hot start	1 sec.,average
Warm start	38sec.,average
Cold start	42sec.,average
Altitude Limit	18,000 meters (60,000feet) max.
Velocity Limit	515 meters/second (1000knots) max.
Acceleration Limit	Less than 4g
Jerk Limit	20m/sec
Operating temperature	-20° to 70° C
Humidity	5% to 95% Non-condensing
Dimension	61.8mmx41mmx18mm
Voltage	Rechargeable 600 mAh battery(3.7V)
Charging connector	DC 5V

3. Wiring Installation

3.1. Product Parts List

GPS Tracker Unit	
USB Cable and	
Charger	
Battery	Li-lion 3.7V 500mAh 報意子系电电池 (3) 22 泉石樹和紅田、4227-2000 泉石樹和玉田、4227-2000 • <u>Agg 常長市電台市会社会社会社会社会社会社会社会社会社会社会社会社会社会社会社会社会社会社会社</u>
User Manual(CD)	

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.
5	Check if all the wiring has been connected correctly; then connect the GPS Tracker unit to the
	power source.

3.3. INSTALLATION

3.3.1 Step 1: Install SIM Card



3.3.2 Functional Parts:

There are 8 buttons on the gps tracker.



	Button	Means
	А	1.Press and hold 3seconds to turn on / turn off GPS tracker
		2.Hang up incoming call
	В	Microphone
	С	Charging Jack
		1. Interface Switch:
		2. Press button D for 3 seconds, you can set date/language:
	D	Then press E or F to set
		Press G to confirm OK
1		Press D to back to previous menu
		1.Press button E for 3 seconds to call the first preset phone number(Please refer to 4 , 5 Two way voice communication
	E	for details)
		2. During a call, you can press button E to up the volumn.
	F	 SOS button(Please refer to 4.6 SOS Button for details) During a call, you can press button E to down the volumn.

G	Press button G for 3 seconds to call the second preset phone number(Please refer to 4.5 Two way voice communication for details)
Н	Speaker

3.4 Charge battery:

- The initial use of WT200B, make sure you please turn off WT200B and charge WT200B battery for 12 hours.
- Below is the battery charging status icon on the GPS watch screen:

Charging:



Charging Finished:

If the GPS tracker is turned off when charging:



If the GPS tracker is turned on when charging:

The battery icon on the screen right top will be full.

4. SMS Command List

Note: **** is user's password and the default password is 0000. The tracker will only accept commands from a user with the correct password. Commands with wrong password will be ignored.

Description	SMS Command	Example
Change Password	#770#New Password#Old	#770#1234#0000##
	Password##	
Remarks: The password will be changed from 0000 to 1234		
Time Zone896****DNN		8960000E08
Description: Correct the time into your local time		
1. **** is the default password. Default:0000		

2. D=E/W, E means East Longitude, ahead of GTM time, W means West Longitude, behind GMT time.		
3. NN is your time zone.		
For example,		
Example: 8960000E08		
Remarks: China is in East Longi	tude, GTM+8 time zone.	
Authorization	#710# authorized phone	#710#008615912345678#0000##
	number #****##	
Description:		
1. There are only 1 numbers able	e to be authorized.	
2.Tracking by call: You can ca	Ill the gps tracker to get loca	ation, the gps tracker will reply location sms to
authorized phone number only.		
3.Receiving alert message: All	the alarm message(geo-fenc	e, SOS, low battery alert) will be send to the
authorize phone number.		
4. After press SOS button, WT2	00B will send call the authoriz	ed phone number for voice monitoring, and send
sms alert to the authorize phone	number.	
Cancel Authorization:		
Command: #710##****##		
**** is the default password. De	efault:0000	
Example:		
#710##0000##		
Set two way voice	#711# phone number 1#	Set phone number 1 only
number	phone number 2# phone	#711#008613512345678###0000##
	number 3#****##	Set phone number 1 and phone number 2
		only
		#711#008613512345678#008613012345678##
		0000##
		Set phone number 1 phone number 2 and
		phone number 3
		#711#008613512345678#008613012345678#0
		08613412345678#0000##
Description:		
1. You can set three phone numbers.		
2. Press Button E(Right top button) for 3 seconds, the GPS tracker will call the phone number 1		
Press Button G(Right bottom button) for 3 seconds, the GPS tracker will call the phone number 2		

Cancel two way voice commun	nication phone number:	
1. Cancel phone number 1:		
Command: #711##phone numb	er 2#phone number 3#****##	£
**** is the default password. De	efault:0000	
Example: #711##00861301234	5678#008613412345678#000	D###
2. Cancel phone number 2:		
Command: #711#phone numbe	r 1# #phone number 3#****#	#
**** is the default password. De	efault:0000	
Example: #711#008613512345	678# #008613412345678#000	10##
3. Cancel phone number 3:		
Command: #711#phone numbe	r 1#phone number 2# #****#	#
**** is the default password. De	efault:0000	
Example: #711#008613512345	678#008613012345678##0000	D##
4. Cancel all phone number:		
Command: #711####****##		
**** is the default password. De	efault:0000	\sim
Example: #711####0000##		
SOS Button		\bigcirc
Description:		
1. Press the Button F(right middle button), the gps tracker will send sos alert message to the authorized phone		
number in "Authorization"		
2. And at the same time, call the phone number in "Set two way voice communication phone number"		
It will call the phone number 1 phone: the gps tracker will call	the phone number 2 if phone	not get through, or phone number 1 nang up the number 2 an not get through, or phone number 2
hang up the phone: the gps track	er will call the phone number	3.
Voice Monitoring	555 ****	5550000
Description : User your mobile	phone to send this command	I, after set successfully, the gps tracker will call
back your mobile phone automa	tically, then you can hear the s	urrounded voice.
Example:		
5550000		
Track on Demand	988****	9880000
-Google Link		
Remarks: Send this command to the tracker and then you receive an SMS with an http link. Click on the link		
http://maps.google.com/maps? $q=+22.62184 + 114.03509$		
Track on Demand	666****	6660000
Description:		
1. The GPS watch WT200B's default GPS searching time is 30 seconds, means: WT200B will stopping		
searching for GPS signal if it cannot find GPS signal in 30 seconds.		
If you cannot get valid location report from WT200B, please first send sms command: #730#20#3#0000##		

then send the sms command: 666**** 2.Get the current location of the tracker, send this SMS or make a telephone call directly to the tracker and it will report its longitude and latitude by SMS with format as follows:-
Data format:
Lat: Latitude Direction (+/-) Latitude Value (Accuracy for 5 after the decimal point)
Long: Longitude Direction (+/-) Longitude Value (Accuracy for 5 after the decimal point)
Speed: Speed KM/H (Accuracy for 2 after the decimal point)
Direction: Direction (Accuracy for 2 after the decimal point)
Date: Date YYYY-MM-DD
Time: Time HH: MM: SS (GMT)
BS: Base Station information
Fix: Location state (A/V)
STATE: Message state
Valid data format:
Lat: +22.50500
Long: +114.01000
Speed: 0.00KM/H
Direction: 315.00
Date: 2008-04-25
Time: 16:39:45
BS: 25ee0dff
Fix: A
STATE: SMS
Invalid data format:
Lat: +22.50500
Long: +114.01000
Speed: 0.00KM/H
Direction: 315.00
Date: 2008-04-25
Time: 16:39:45
BS: 25ee0dff

Fix: V
STATE: SMS
Note: If in the cold start and GPS no position, it will return to the void of information:
eg: ERROR GPS GPRMC FRAME DATA
BS: 27971054"
ID: 353686009002030
STATE: SMS
Map
Download Google Earth from http://earth.google.com/.
Start Google Earth (For more information about Google Earth please refer to <u>http://earth.google.com/</u>) or go to
http://maps.google.com in your Internet Explorer.
Input the latitude and longitude that you receive from the tracker by SMS and click the search button. Google
Earth or Google Maps will display the location for you.
Example:
When you receive: Latitude = 223240.05 N Longitude = 1140457.74 E
(Neter you should insut the latitude and lengitude as 22 22 40 05N 114 04 57 74F)
(Note: you should input the latitude and longitude as: 22 32 40.05N 114 04 57.74E)
Fly To Find Businesses Directions
e.g., Reservoir Rd. Clayville, NY
22 32 40.05N 114 04 57.74E 💌 🔍
Web Images Videos Maps News Shopping Gmail more V
Google maps 22 32 40.05N 114 04 57.74E Search Maps
Get Directions My Maps «
And then you can find the location of your tracker:
Coogle Earth
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Ty To Trid haveness Devicion e.g., Reserve Rd. Cayde, W
✓ Places 22 32 40 05N 114 0457/74E 22 32 40 05N 114 0457/74E
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Or you can use local map software on PDA or car navigation device to input the coordinates.

Set geo-fence square	#751#Radius#Sampling	#751#500#5#22.5442N#113.91E#0000##
	Interval#Latitude	
	#Longitude #0000##	

Description:

When the tracker moves out of a preset square scope, it will send an SMS alarm to the authorized phone number for SOS ("Authorization")

Example:

#751#500#5#22.5442N#113.91E#0000##

The GPS Tracker will send an alert message to the authorized phone number (**"Authorization"**) when the gps tracker is in/out the area(center point's Longtitude 113.91E and latitude 22.5442N, radius 500 meters)



Read Geo-fence parameters	#752#****##
---------------------------	-------------

#752#0000##

Description:

The command to read geo-fence parameters

Example: #752#0000##

After send successfully, the gps tracker will reply:

#open:1#lat:11456.209400#lng:2233.470100#distance:500#time:5#status:2

Parameter	Description
Geo-fence status	open:1-Geo fence is open
	Open:0-Geo fence is closed
Longitude and latitude	Geo-fence center point
Distance	Geo-fence radius
Time	Sampling interval
Status	Status:2—GPS Tracker has valid
	gps signal, geo-fence works normal

	Status:1—GPS tracke	er has invalid
gps signal, geo-fence		e is open but
cannot work normal		
Turn off geo-fence	#760#****##	#760#0000##
The command to close geo-fence	alarm.	·
Example: #760#0000##		
Enable/Disable GPRS	#904##	#904##
	#905##	#905##
1. Enable GPRS : #904##		
2. Disable GPRS : #905##		Y
Set APN	Format	#802#CMNET###0000##
	1: #802#APN###****##	#802# APN# APN user name#APN password
	Format 2:#802#APN# APN	#0000##
	user name#APN password	
#0000##		
Remarks:		
1.If no APN username and passw	ord are required, just input A	PN only.
2. Use format 2 if your APN requ	uires APN user name and APN	N password.
3. APN defaulted as 'CMNET';	APN is gateway to connect it	internet, Each country is different, please contact
your SIM card provider for APN	name.	
Set IP and Port	#803#IP # port #****##	#803#58.64.205.22#8010#0000##
Remarks: IP is your server's IP as	nd Port.	
Track by Interval	#730# sampling interval T	#730#60#1#0000##
	# the number of upload	
	data each time N #****##	
In this example, the tracker will send location data back to your mobile phone every 60 minutes.		
Read GPS Tracker Set	#901##	#901##
Parameter		
Remarks: The command to read GPS tracker Set parameter		
Read GPRS Set Parameter	#902##	#902##
Remarks: The command to read GPS tracker GPRS Set parameter		

5. Track by 900D web based tracking software

5.1. Enable GPRS

Send the SMS to the tracker as following format:

	Command	Remark
Command format:	#904##	
For example:	#904##	

5.2. Set APN

Send the SMS to the tracker as following format

	Command	Remark
Command format:	Format 1:#802#APN###****##	**** is the default password. Default:0000
		Use format 2 if your APN requires APN user name and
	Format 2:#802#APN# APN user	APN password.
	name#APN password #0000##	
For example:	#802#CMNET###0000##	802 : Command code
		0000: password, default 0000
	#802#CMNET#abcdef#12345678#0000##	CMNET: APN, is gateway to connect internet, Each
		country is different, please contact your SIM card provider
		for APN name.

5.3.Set IP and Port

Send the SMS to the tracker as following format:

	Command	Remark
Command format:	#803#IP#port#****##	**** is the default password. Default:0000
For example:	#803#58.64.205.22#8010#0000##	803 : Command code
		0000: password, default 0000
		58.64.205.22 900D Platform server IP
		8010 900D Platform server software Port

5.4.Upload data in preset time

Send the SMS to the tracker as following format:

	Command	Remark
Command format:	#730#T#N#****##	**** is the default password. Default:0000
		(1) T= Record location by interval, from 10 to 65535 in
		the unit of second.
		(2)N= Upload Record Location Quantity Per Time, from
		1-50.
		(3)Upload location data interval=T*N
		N=0, close upload data by preset interval, the gps tracker
		will reply "GPRS Timer Stop"
For example:	#730#60#1#0000##	730 : Command code
		0000: password, default 0000
		In this example: WT200B will send location every 60
×		seconds (1 minute), 1 location reports per time.

5.5. Please go to <u>http://www1.igpstracking.net/</u>

Enter the user name and password we provided.

After log in, please go to "Vehicle Manager-Vehicle List"

vstem Manage hicle lis Ali Ali View currer adr Sub-user n 1 Sub-user n 2 Sub-user n 3 Sub-user n 2 Sub-user n 3 Sub-user n 3 Sub-user n 2 Sub-user n 3 Sub-user n 4 Sub-user n 5 Sub-user n 6 Sub-user	Report Busin a user privilege anage wilege manage wilege manage hicle ameter manage bicle
You will see the belo	v window
💫 Vehicle Manage	
Add Ed	Delete
Number-plate	Terminal ID
Please click "Add" t	tton, you will see the below window:
🐟 Add vehicle	
Number-plate * V Sim Tel * 1	T200B_NEW Terminal ID * 356823032239241 3456 Terminal type Unknown type Unknown type
Group name	
Owner name	
Owner Tel	
Owner address	
Remark	
Vehicle icon	
_	Ok Close

License Plate: Define by yourself; you can enter A-Z number or Numeric

900D Terminal Type: **Do not choose.**

SIM card: the SIM card phone number you put in WT200B.

Terminal ID: On the WT200B, you can find the a white label writes "IMEI". IMEI=Terminal ID . Terminal ID is 356823032239241 here.



Click "Submit", and then you add the car successfully on the software 900D

Note

Add vehicle success

VT200B_NEW

Attention: For 900D GPS Software, "Monitor" and "Number Plate" must be checked till the font becomes blue, then the GPS tracker will update location automatically on map.Like below picture:



6. Troubleshooting

Problem: Unit will not turn on		
Possible Cause:	Resolution:	
Wiring was not connected properly	Check and make sure wiring connection is in order.	
Battery needs charging	Recharge battery	
Problem: Unit will not respond to SMS		
Possible Cause:	Resolution:	
GSM antenna was not installed properly	Make WT200B connected to GSM network.	
GSM Network is slow	Some GSM networks slow down during peak time or when they	
	have equipment problems.	
Unit is sleeping	Cancel sleeping mode	
Wrong password in your SMS or wrong	Write correct password or SMS format	
SMS format		
The SIM in WT200B has run out of credit	Replace or top up the SIM card	
No SIM card	Insert a working SIM card. Check in phone that the SIM can send	
	SMS message.	
SIM card has expired	Check in phone that the SIM can send SMS message. Replace	
	SIM card if needed.	
SIM has PIN code set	Remove PIN code by inserting SIM in you phone and deleting the	
	code.	
SIM is warped or damaged	Inspect SIM, clean the contacts. If re-inserting does not help try	
	another to see if it will work.	
Roaming not enabled	If you are in a different country your SIM account must have	
	roaming enabled.	
Error connecting GSM antenna	Make sure the GSM antenna is connected to the GSM interface.	
Problem: SMS received starts with 'Last'		
Possible Cause:	Resolution:	
Unit does not have clear view of the sky	Move the antenna of the unit to a location where the sky is visible.	
WT200B is in an inner place	Wait for the target to come out	
Battery is low	Recharge the unit and the GPS will start working.	
Error connecting GPS antenna	Make sure the GPS antenna is connected to the GPS interface.	
Problem: Unit Fails to Connect to Server via GPRS		
Possible Cause:	Resolution:	
SIM card in WT200B does not support	Enable SIM card GPRS function.	
GPRS function		
GPRS function of WT200B is turned off	Turn on GPRS function of WT200B.	
Incorrect IP address or PORT	Get the right IP address and PORT and reset to WT200B	
GSM signal is weak	Move the unit to a location with good GSM reception.	

7.Contacts

If you encounter any problems when using our products, and cannot solve them by yourself, please contact our technical support team by writing an E-Mail to us. We will be pleased to help you.