

USER MANUAL WT-8

Preface

Thank you for purchasing WT-8. 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 Notes and Cautions

- GSM network connection will determine the performance of the device.
- The satellite signal will be blanketed by cement and metallic material, so it's recommended to use it in an open field.
- To keep the best connection, please make sure the GPS antenna looks skywards.
- Do make sure the PIN code is deactivated.
- Don't let the device run at or above 50 degrees by, such as, exposing the device under the sunshine for a long time, for safety consideration.
- Put it in a covert place if using it for anti-theft.
- Risk of explosion may exist, if the battery is replaced by an incorrect type.
- Disposal of used battery should comply with the legal instructions.

2 System Introduction

2.1 Appearance



Note: Button A is the "backward" key; Joystick is the "enter" key.

2.2 Full Kit

- GPS Watch Tracker
- 1100mAh Li-ion Battery
- CD (User manual, Software included)
- 2 PIN AC Adapter

2.3 Specifications

GSM/GPRS		
GSM/GPRS module	Sincom300 Tri-Band GSM module (GSM900/1800/1900MHz)	
GSM Antenna	Build-in	

GPS			
GPS module	SRIF III 20 channels		
Protocol	NMEA-0183 compliant protocol		
GPS Antenna	Build-in active high sensitivity antenna		
Accuracy	1-5m		
Update rate	1 HZ		
	Cold start: 42s		
Start time	Warm start: 35s		
	Hot start : 1s		
	Electrical		
Operating Voltage	3.3V		
Charge voltage	4.5~5V		
Standby	15mA		
Operating	80mA		
Battery	Li-ion 1100mAh		
other			
Size	59mm*38mm*18mm		
Weight	45g(including battery)		

3 Get Started

3.1 Install Software

Before installing the GPS Tracker Server software, you should install dotnetfx.exe and Google Earth.exe.

To configure the unit on computer, you also need install a driver. All are included in the CD.

• Install WT-8

Find the "Setup.exe" and click to install on the computer.

₿PT10	
Welcome to the PT10 Setup Wizard	
The installer will guide you through the steps required to install PT10 on y	vour computer.
WARNING: This computer program is protected by copyright law and into Unauthorized duplication or distribution of this program, or any portion of or criminal penalties, and will be prosecuted to the maximum extent possi	emational treaties. it, may result in severe civil ble under the law.
Cancel	ick Next>

Choose the installation directory, and click "Next":

PT10			
Select Installation Folder			
The installer will install PT10 to the following folder.			
To install in this folder, click "Next". To install to a diffe	erent folder, ent	ter it below o	r click "Browse".
<u>F</u> older.			
Eolden: C:\Program Files\weiom\PT10\			Browse
<u>F</u> older: [C:\Program Files\weiom\PT10\			B <u>r</u> owse Disk Cost
<u>F</u> older: C:\Program Files\weiom\PT10\			B <u>r</u> owse Disk Cost
Eolder: C:\Program Files\weiom\PT10\ Install PT10 for yourself, or for anyone who uses thi	s computer:		Browse Disk Cost
Eolder: C:\Program Files\weiom\PT10\ Install PT10 for yourself, or for anyone who uses the Everyone	s computer:		Browse Disk Cost

Until finish installation:

j ∂ PT10	
Installation Complete	
PT10 has been successfully installed.	
Click "Close" to exit.	
Please use Windows Update to check for any	critical updates to the .NET Framework.
	Cancel < <u>B</u> ack Dose
	U*

• Install USB Driver

Power on the unit properly, and then connect it with computer by the USB able, and the computer will ask you to install the driver. Please go to "**My computer**" and right click and choose the "**properties**", and move to "**hardware**" and choose "**devices manager**", to see "**USB Device**" in yellow exclamatory mark,

and right click as below:



Choose "Update Driver", and choose option advanced:



Choose the directory of the Driver and move to the next, and until finish installation:



Hardware Update Wizard	
	Completing the Hardware Update Wizard The wizard has finished installing the software for: weiom gps logger
	Click Finish to close the wizard.
	K Back Figish Cancel

3.2 Battery Charging

- At the first use, please charge the battery for 8 hours to full capacity.
- In later use, please charge 4 hours to its full. It is better to power off the device before charging.
- Connect the charger to a power supply
- The background light will turn off when the battery is full.

3.3 SIM Card Setup

A. Installation

- Press the battery cover, and then pull it downwards to open it.
- Remove the battery
- Insert the SIM card into the holder and place the holder in place.
- Put the battery back and close the battery cover

B.Phonebook Setup

In the tracker's SIM card, you can store 11 numbers, and a "SET" parameter in the phonebook as below:



• The SIM card can have 5 SOS numbers, such as separately SOS1, SOS2, SOS3, SOS4, SOS5, and 5 FRIEND numbers, such as FRIEND1, FRIEND2, FRIEND3, FRIEND4, FRIEND5, and 1 TIMER.

Only **SOS** numbers can receive the reports when the panic button is pressed, and only **TIMER** will get the auto location report defined by SMS/GPRS Sending Timer, and Geofence alert & Speeding alert.

- "SET" parameter defines the working of tracker. You can define the Time Zone, GPS Reception, SMS/GPRS Location Report etc by it. (For its information in detail, please refer to Clause 3.4)
- Please set them up in **CAPITALS**.

3.4 SET Parameter Instructions

To use the tracker, please first define the "**SET**" parameter. You can set it up by SMS command on mobile phone or USB cable on computer. It consists of 26 digits. Please store it in the name of "SET". As below is the definition in detail:

Digit Definition		Value& Meaning	Remarks
1st-5th Time Zone		GMT+12:00(01200) to GMT -13:00(11300)	GMT+00:00(00000)
6th-7th	GPS Reception Timer	00: keep receiving GPS. 01-99: turn on to receive GPS data in every 1 minute to 99 minutes.	00: keep receiving GPS.
8th-9th	SMS/GPRS Location Report Timer	00: device doesn't auto report location. 01-99: device auto reports to mobile phone in every 1 minute to 99 minutes	
10th Battery Monitor		0: device doesn't check the battery level.1-9: device will check the battery in every 1-9 minutes and alarm in SMS when the battery level is too low.	
11th-16th Password		Set a 6 digits password as from 000000-9999999.	Default value is 000000.
17th-18th Geofence		It ranges between "00"-"99", and is calculated this way: $** \times 50m(** \text{ is the value.})$, say, 03 is 150m, 14 is 700m.	"00", Geofence is off.
19th-20th	Speeding alarm	It ranges between "00"-"99", and is calculated this way: $** \times 10$ km/h(** is the value.), say, 04 is 40 km/h, 08 is 80 km/h.	"00", Speeding alarm is off.
21st	Logging mode	"0" means to record by time; "1" means to record by distance.	Other input is invalid.
22nd-26th	Logging Interval	By time, it is "1-999999"s; By distance, it is "50-65000"meter.	Distance below 50m will cause drift in position.

For example: To take off the tracker's SIM card and put it on mobile phone, you can check out its "SET" parameter in

the "contacts" as below:



- 00800: China's Time zone: GMT+8:00.
- 00: The tracker keeps receiving GPS signal.
- 01: The tracker auto reports the location in every 1 minute.
- 0: The tracker will not check the battery level.
- 654321: The password is 654321.
- 05: Geofence district is formed on a 250 meters radius (5×50 m).
- 06: The speed limit is $60 \text{km/h} (6 \times 10 \text{km/h})$.
- 0: The waypoints are recorded by time.

• 00030: The time interval is 30 seconds.

Note: This parameter is very important. It controls all the actions of our unit, such as Geofence alert, Speeding alert etc. The user can change those values by:

- a). Remotely sending SMS commands
- b). Connecting to computer via a USB cable

c). Setting it up directly on the screen.

➢ Time Zone

The device receives the time in Greenwich Mean Time (GMT). It is suggested setting it by the local TimeZone when using it.

1st digit indicates '+' (0) or '-' (1)

2nd and 3rd digits indicate hour difference to GMT.

4th and 5th digits indicate minute difference to GMT.

Values of time zones are shown as below:

Time Zone	Value	Time Zone	Value	Time Zone	Value
GMT-12:00	11200	GMT-2:00	10200	GMT+5:45	00545
GMT-11:00	11100	GMT-1:00	10100	GMT+6:00	00600
GMT-10:00	11000	GMT	00000	GMT+6:30	00630
GMT-9:00	10900	GMT+1:00	00100	GMT+7:00	00700
GMT-8:00	10800	GMT+2:00	00200	GMT+8:00	00800
GMT-7:00	10700	GMT+3:00	00300	GMT+9:00	00900
GMT-6:00	10600	GMT+3:30	00330	GMT+9:30	00930
GMT-5:00	10500	GMT+4:00	00400	GMT+10:00	01000
GMT-4:00	10400	GMT+4:30	00430	GMT+11:00	01100
GMT-3:00	10300	GMT+5:00	00500	GMT+12:00	01200
GMT-3:30	10330	GMT+5:30	00530	GMT+13:00	01300

Note: Other input is regarded as the default value (00000).

GPS Reception Timer

This value controls the GPS reception. The unit will fix the GPS according to this timer.

"00": the device is always on, to receive GPS data;

"01"-"99": the device will turn on to receive GPS in every 1-99 minutes.

Note: Other input is regarded as the default value (00).

> SMS/GPRS Location Report Timer

This value controls the auto location report in SMS as well as in GPRS.

"00": there is no auto location report;

"01"-"99": the unit will auto report according to the timer.

Note: Other input is regarded as the default value (00).

Battery Monitor

The unit will check the battery level at a predefined interval. When the battery runs away to a low level, it will send an alarm.

Note: The normal battery level ranges from 3400mv to 4200mv.

> Geofence

Geofence defines a circular district. This circular district forms on a radius predefined by this value. When Geofence is set at a place, on breach of it, the unit will send two alerts to **<u>TIMER</u>**.

Speeding Alarm

This value defines the speed limit. When the tracker moves over the limit, it will send two alerts to **<u>TIMER</u>**. It is suggested the speed limit be set no less than 50km/h. The limit below 50km/h may cause inaccurate alert, for GPS signal may be affected.

Logging Mode

The unit can record the waypoints by time or distance. "0" means it records by time. "1" means it records by distance.

Logging Interval

Recording by time, the value can be defined in the range of "1s-99999s"; Recording by distance, the value can be defined in the range of "50m-65000m".

Note: Input out of the range is invalid. You can define the distance by below 50m, but this may cause drift in position

4 Set up

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4.1 Set up on Watch Screen

Primary Menu Memory Battery usage GSM Geofence GPS indicator: it will flash when having fixed GPS. Last fixed location Last fixed location Time of last fixed

After entering into this interface, you can check out the time & date, as well as other different information. As illustrated above:

indicates GPS reception. When it fixes GPS, this mark will begin flash.

indicates memory usage, for waypoints storage.

indicates battery usage.

find indicates GSM connection.

indicates Geofence & Speeding alert. If you turn on Geofence, "D" will show. If you turn on Speeding

alert, "V" will show.

E 114°01.4768¹11³1.16 indicates the location currently fixed if GPS is available, and the current time. If GPS is not available, it indicates the last location, and the time of last fixed location.

System Menu A

Press Button A, to switch to System Menu A, and then scroll down / up to choose the option.



Note: When you activate Geofence, please stand still at the point, and then turn on Geofence. This point is the center point on which the round Geofence district is formed based.

System Menu B

Press Joystick, to enter into System menu B as below.



This menu includes functions, such as GPS, Text message, Track Friends, Sports, Call out, Phone Book, Alarm Clock & System Settings.



• Friends (also called "Track Friends")

If A wears this watch, and B, C, D, E, F wears another 5 watches. A can track down the others directly on the screen by distance & direction. It is set this way: on B, C, D, E, F's SIM card phonebook,

A's number must be saved. Also, A should save B, C, D, E, F's numbers into its phonebook.



• Settings



Note: In the GPRS setting:

APN: at the end of this user manual, there is an APN table list.

User Name & Password: for GPRS service, the operators of different countries may provide a User Name & Password.

IP Address: set up the public IP (the router or the modem IP) here. For details, please refer to **Clause 6.1**. Port Number: set up Port Number here. For details, please refer to **Clause 6.1**.

• Phone Book

the phone book specifies only 11 numbers in names of TIMER, SOS1-5, FRIEND1-5 as follows:

Phone Book	Phone Book
TIMER	5064 5065
SOS2 SOS3	FRIEND1 FRIEND2
SOS4	IRIEND3

The numbers can be delete, stored here, and you can make a callout here.

• Text Message



you can send / read text message here.

• Call Out



you user can make a callout here.

• Sports

100

you user can turn on / off "Stop Watch", specify the activity "at Running or Cycling", and input the weight on which the calorie is calculated based.



• Alarm Clock

you can turn on / off alarm, set up the alarm time as well as a beep once every hour.



4.2 Set up on Computer via USB Cable

You can set up most of the functions by USB cable, except "Sports", "Alarm Clock".

Build up Connection

First, turn on the tracker, until the unit is rebooted, then connect the unit to computer by USB cable, and click open the unit's software.

🔵 Weiom Tech PC Suite	🔵 Weiom Tech PC Suite 📃 🗖 🔀
USB Setting SMS APN Tracker Map About	USB Setting SMS APN Tracker Map About
Vid:0x0471 Pid:0x0000	Vid:0x0471 Pid:0x0000 Close
System Information IMEI: Version:	System Information IMEI:353358010171853 Version: PT-10H:V2.0S:V3.06B071119
Power Usage: Memory Usage: SMS Centre Number:	Power Usage:44.47% Memory Usage:11.97% SMS Centre Number:+8613800755500
Incoming data:	Incoming data:
	1
2	
Save Incoming data	Save Incoming data
Devices Found: 1 Ketresh	Devices Found: 1 Ketresh Device Opened.

Pull down to choose "**Vid:0x0471 Pid:0x000**" and click "**Open**" to build up this connection between the computer and the unit. And then you can check the system information by clicking "**Information**". **Note:**

1. When all the settings are done, please return to "USB" option, and turn off the connection by clicking "Close". Otherwise, it may cause malfunction at later use.

2. <u>Please make a note of the IMEI code.</u>

Setting of the Phonebook (PIC 1)

Move to tab "**Setting**". Here can set up the numbers of the phonebook. You can save / delete / read numbers in the phonebook here.

Setting of Tracking Status (PIC 2)

You can set up the unit's tracking status. All the values comply with "SET" parameter. Input all the values properly, and tick up to set up in the right small box and at last click "**confirm**" to confirm.

Read: Check the old setting.

Restore: Click here to restore the default settings.

Note: The Time zone consists of 5 digits. The 1st digit indicates '+' (0) or '-' (1), e.g. if the time zone is 00800, you input only 0800, while for 11200, you need input -1200, which must include the "-".

Veion Tech PC Suite	🔵 Veion Tech PC Suite
JSB Setting SMS APN Tracker Map About	USB Setting SMS APN Tracker Map About
Data logging interval mode By Time Seconds By Distance meters	Timezone: 0800 GFS receive off GFS RT: 00 min SMS/GFES ST: 01 min GFS off
Phone No. Setting Name: TIMER Save Delete Phone No.: 13714743902 Search	Battery Moniter: 9 min Password: 000000 Speed alarm: 08 *10Km/h Geofence Distance: 05 *50m
Incoming data:	Read Restore Confirm
Save Incoming data	Save Incoming data
evices Found: 1 <u>Refresh</u> Device Opened.	Devices Found: 1 <u>Refresh</u> Device Opened.
PIC 1	PIC 2

> APN Setup

Input the APN, Username, Password, IP address, Port Number accordingly, and click "Setting" to confirm.

Read: Read the old settings.

Erase: Erase the old settings.

Note: Please refer to the below for how to set up APN, IP address and Port number.

CMNET 58.251.126.216 3805
CMNET 58.251.126.216 3805
58. 251. 126. 216 3805
58, 251, 126, 216 3805
58, 251, 126, 216 3805
3805
ng data:
ing data

Note: <u>When configuring the unit via USB cable, you can't send SMS to the unit, for the GSM module</u> <u>is turned off at the time.</u>

4.3 Set up by SMS commands

You can set up the tracker by SMS commands as below.

> Commands List

This list includes all the commands. It will tell you how to set up / check the unit's working status, get the location reports.

Working	Command	Definition	Remarks
	S,SET:xxxxxxxxxxpppp ppxxxx	Establish/Change the "SET" parameter, to set up the unit's working status.	Refer to the below.
	S,SOFF	Turn off the Auto SMS sending.	Auto SMS report relates with Location SMS/GPRS Report Timer It is suggested you
	S,SON	Turn on the Auto SMS sending.	turn off this function, if you do not want the auto location report, otherwise, it will keep sending your location SMS, to cost you much.
	S,ROFF	Turn off the GPS reception.	GPS reception relates with GPS Reception
	S,RON	Turn on the GPS reception.	Timer.
	S,SPDOFF	Turn off the Speeding Alarm.	
	S,SPDON	Turn on the Speeding Alarm to get alerted when the speed limit is breached.	
	S,GEOFENCEOFF	Turn off the Geofence.	
	S,GEOFENCEON	Turn on the Geofence to get alerted when the tracker moves outside the round district.	
	S,GPRSOFF	Turn off the auto GPRS location report.	Auto GPRS Sending relates with Location
Setun	S,GPRSON	Turn on the auto GPRS location report.	Report Timer.
Beiup	N,NAME:number	Save the number and define the NAME.	E.g. to save number 13714742568 as SOS2, the command is " N , SOS2:13714742568".
	N, NAME: D	Delete the number of Name's.	E.g. to delete SOS2, the command is " N , SOS2: D ".
	N, NAME:?	Check the number of Name's.	E.g. to check SOS2's number, the command is "N, SOS2:?".
	S,F	Restore the default setting.	Default Setting: Auto SMS Sending ON ; Auto GPRS Sending OFF ; GPS Reception ON ; Speeding Alarm ON ; Geofence ON ; Location Report in COORDINATES ; Password 000000 .
	POWER OFF,IMEI	Power off the unit.	
	A,APN,username,passwo rd,IP address, port number	Set up the APN for GPRS tracking on computer.	Refer to the below.
	A,CLR	Clear APN setting.	
	D,E	Clear Recorded Waypoints data.	
Location	S.LF:NORMAL	Location report on mobile phone is in	

_		coordinates.	
	S I F-COOCI EMAD	Location report on mobile phone is a link,	To open the link, you can view the real location
Inquiry	5,LF.GOOGLEMAI	connecting with Google Map.	on mobile phone.
	W	Inquire the location by these two commonds	Numbers not in the phonebook have to input the
	W,*****(password)	inquire the location by these two commands.	password to inquire the location.
	S,?	Check the unit's working status.	Refer to the below.
Check	А,?	Inquiry APN status.	
CHECK	1.9	Check IMEI number, battery level, and memory	
	1,:	level, hardware version and software version	

Commands in detail

Every command will get a confirmation after being sent. Hereunder presents several examples for clarifications:

Example 1: S,SET: xxxxxxxxppppppxxxxxxxx

"SET" parameter can be established via this SMS command and changed later via this SMS command.



Establish or change the "SET" by this SMS command <u>S, SET:</u> <u>xxxxxxxxyyyyyyyxxxxxxx</u>" (26digits without space).

- If the command is incorrect in format, it will reply: <u>SET! SET data format</u> error!
- If "SET" is not replaced successfully, it will reply: <u>SET! SET data save error!</u> Please try again.

Notes:

- For safety consideration, the device's password can't be changed by SMS command; these 6 digits in SMS must be the same with the old one which is pre-set on mobile phone. If the SIM card isn't pre-set before, the default value will be **000000**.
- In case of accident (such as the unit is in process of power-off when the SMS is sent out), this operation may cause the parameter setting returns to the default value (including the password).

Example 2: S,?

This command can check the unit's working status.



The meaning for the reply of confirmation is as below:

GMT:+08:00	Time Zone is 00800	GPS RT:00	Fix GPS with no interval
SMS ST:01	To report a location every 1 minute	GPS R:on	GPS reception is on
S Timer: off	SMS sending is off	B Alarm:9	Auto check the battery level every 9
			minutes
Geo:05	Geofence district is 250m in radius	SPD:07	Speed limit is 70km/h
SPD:ON	Speeding Alarm is on	GPRS:on	Auto GPRS sending is on
Geofence:off	Geofence function is off	LF:NORMAL	Location report is in coordinates
Save by time:1s	Record the waypoints in every 1		
	second.		

Example 3: A, APN, username, password, IP address, port number

To view the location on computer via GPRS, you need activate the GPRS function: first to set up APN; second to turn on GPRS (refer to the above Commands List.). To set up APN as below:



modem's IP addre	SS.	IP address.
•		

Note:

- If APN, username, password do not change when you re-set unit, you can leave three commas in their places. In fact, as long as any index of the command does not change, you can send the command this way.
- The IP address in this command should be WAN IP address, say Router's / Modem's IP address. (WAN IP address is assigned by the ISP (Internet Service Provider). You can check the IP address here: http://www.getipaddress.com OR http://www.getipaddress.com OR http://www.getipaddress.com OR http://www.getipaddress.com
- The Port number should be in correspondence with LAN IP address, say the computer's IP address. Please set it up on the router. (LAN IP address is the local IP. You can check it on your computer by DOS command: <u>winipcfg</u> (Windows98) OR ipconfig (Windows2000/XP).
 (Refer to the below.)

5 SMS Tracking

There are two inquiry modes:

NORMAL: The user can check the location by coordinates.

GOOGLEMAP: The user can check the real location with a mobile phone. The mobile phone must be able to browse the internet.

5.1 Change the Inquiry Mode

The user can send a SMS command to change the inquiry mode. The SMS command is as below:



The user can send "S, LF: NORMAL" to the tracker to switch to NORMAL mode.

5.2 In Normal mode

By SMS



Note: Any number can send "W+Password" to check the location, while only numbers in the tracker's

SIM card can send "W" to check the location.

By Phone Call



Note: Only numbers in the tracker's SIM card can dial up the device. When they call in, the tracker will hang up and return a location SMS as above.

5.3 In GOOGLEMAP mode





5.4 Track On Google Earth & Google Map

After having received the coordinate, manually input it to Google Earth (download from <u>earth.google.com</u>) or Google Maps (<u>maps.google.com</u>), then you can find the real location on the map.

Note: The received coordinate is this: N, Lat: 2233.0361, E, Lon: 11404.9644, but when we input it, we should use this format: N22 33.0361, E114 04.9644. There is a space between N22 and 33.0361; E114 and 04.9644.





6 GPRS Tracking

Before getting GPRS tracking to work, please set up APN, IP address, Port number. For APN, the user can refer to the list table at the end of this manual. For IP address, Port number, it is instructed as below:

6.1 Check APN, Set up IP Address & Port Number

> APN

There is a list table for APN all around the world. Please refer to it for APN. We don't guarantee its validity, so if it doesn't work, please consult your service operator for information.

> Set up IP Address & Port Number

There are two ways for internet: **Router & Modem.** The setup will vary accordingly. Modem is easy of setup comparatively.

Router:

Under a router, there can be several computers connected. To lead the GPRS location data to the specified computer, you should assign the location to tracker, and do some settings on the router.

First check out the computer's IP under the router as below:

Administrator		
Internet Tencent Traveler E-mail Outlook Express	My Documents My Computer	
Microsoft Office Excel 2003	Control Panel	•
一 勝讯QQ 、xdict.exe	Connect <u>T</u> o	•
GPSTrackServer	Printers and Faxes	
MSN	C Bun	
All <u>P</u> rograms		
2	🔁 Log Off 🛛 💽 Tyrn Off Comp	puter

Input "ipconfig":





Set up the router. Usually, you can log into the router by <u>http://192.168.1.1</u> or <u>http://192.168.0.1</u> or refer to the router's user manual for information.

🏉 TL-R860/860I多功能	宽带路由器 - Windows Int	ernet Explorer			_ 7 🔀
🔆 💽 🔻 🙋 http://192	2. 168. 1. 1/			🖌 😽 🗙 Live Search	
🔶 🏟 🌈 TL-R860/860Mg	多功能宽带路由器			🙆 • 🖻 · 🕯	• 🔂 <u>P</u> age • »
** TP-LINK	東高	的集成已	专司活的组	网选择	
N= /= 1 N-44			Input <u>http://192.168.1</u>	$\underline{.1/}$ to log into router.	
• 运行状态 • 沿罟向号		版本信息			
+ 网络参数 + DHCP服务器 + 转发规则		当前软件版本 当前硬件版本	: 3.5.0 Build 070111 Rel.56 : R860v1 1001225B	5013na	
+ 安全设置		LAN口状态			
 ◆ 路由功能 ◆ IP与MAC绑定 ◆ 动态DWS ◆ 系统工具 		MAC 地址: IP地址: 子网掩码:	00-19-E0-C2-51-D2 192, 168, 1, 1 255, 255, 255, 0		_
更多TP-LINK宽带路由		WANロ状态		This is the router	IP.
器,请点击查看 >>		MAC 地址: IP地址: 子阿捷码: 网关: DNS 服务器: 上网时间:	00-19-FD-C2-51-D3 58.251.125.152 255.255.255.255 58.251.125.152 210.21.196.8 , 210.51.176.71 0 day(s) 07:58:00 断线		
		WAN口流量统计			
		字节数: 数据包数:	接收 650342024 7945879	发送 2569043852 7431256	×
Done				😜 Internet	🔍 100% 🔻 💡

Enter your computer's IP Address and Port Number into appropriate text box.



Note:

1. There will be several options for making different configurations. Please choose the right place. Usually,

the place is called **Port Forwarding / Forwarding Rules** and so on.

2. Make sure the port number will not be pre-occupied, such as 8080 etc.

The completed setting as below:

🏉 TL-R860/860I多功能	宽带路由器 - Windows Inter	net Explorer				_ 7 🛛
💽 🗸 🖉 http://19	2. 168. 1. 1/				🖌 🐓 🗙 Live Search	<u>- م</u>
🚖 🏟 🌈 TL-R860/860M	多功能宽带路由器				🖄 • 🔊 🔹	
** TP-LINK	東高的	印集成度,	更灵活	的組网	选择	
 运行状态 设置向导 网络参数 marenex要 转发规则 通知的发展 特殊应用程序 DMZ主机 UFAF设置 安全设置 路由功能 IF与MAC绑定 动态DKS 系统工具 更多TP-LINK宽带路由 器,请点击查者 >> 		採留 虚拟服务器定义了广域网服务端口 ID 服务端口 1 3802 添加新条目 一页 下一页 報目	3服务端口和局域网网 定位给通过IP地址指 IP地址 192.168.1.103 所有条目生效	络服务器之间的映频 定的局域网网络服 位于 生 使所有条目失效	时关系,所有对该广域网 多器。 这 <u>编辑 删除</u> <u>删除所有条目</u>	
Done					😜 Internet	🔍 100% 🔻 🖉

Modem:

There is no other computer under a modem, so you just specify a port number at random (just make sure it is not pre-occupied by system.), and assign the modem IP to tracker.

6.2 Start Tracking

Open the software PC Suite, and tick the "**TrackerMode**", it will auto jump to tab "**Tracker**". <u>Then turn</u> <u>on the GPRS sending and input the IMEI code</u>, and at last tick up "**Start/Stop GPS Track Server**" to open the Google earth automatically.

When there are two trackers, you can designate different colors for them by clicking "color".

Note: Make sure the firewall is off, which will block the GPRS data.

🔵 Veiom Tech PC Suite 📃 🗖 🔀	Veion Tech PC Suite
USB Setting SMS APN Tracker Map About	USB Setting SMS APN Tracker Map About
Open System Information IMEI: Version: Power Usage: Memory Usage: SMS Centre Number:	-Connection Information Start/Stop GFS Track Server Port Number 3805 Tracker1 353358010474760 color Tracker2 color Connected Clients
Incoming data:	Incoming data:
Save Incoming data	Save Incoming data
Devices Found: O <u>Refresh</u>	Devices Found: O <u>Refresh</u>

In the left column on Google earth, you can found the GPS Tracker Server in the **Temporary places**. Please extend it by clicks. After receiving data from Tracker, the software can add a place mark in the Google earth. You can find them in **Position** folder.



Double click at any place mark that you can find it from the map.



Tick up the box of **Trail** folder, and you can find the route in the Google earth.



Note: When using GPRS tracking, if the user does not need SMS sending, it is recommended to turn off the SMS sending by "S, SOFF".

7 Data Logger

It can record 54,000 waypoints at maximum. With those points, you can check the history route on a map on your computer.

A. Setting of the Logger

Move to "Setting". Here can set up the working of the unit's logger, and the phonebook.

For **Logger**: You can choose to log by time or by distance, but only one working mode can be chosen. The value range for "by time" is 1s-99999s, for "by distance" 50m-65000m. To click "**Read**", you can check the preset value.

Note: The value below 50m will cause drift in position.

Se	tting	SMS	APN	Tracker	Map About
ata logi	ging in	terva	1 mode -		
Brr '	Time	000	200	-	Confirm
U Dy .	IIMe	000	130	seconds	Contria
By I	Distanc	e		meters	Read
	3200 V.C.W				VY 880
hone No.	. Setti	ng			
Name:					Save
10070088	1.5				Delete
	-				
Phone 1	No.:				Search
		lr	ncoming	g data:	
	6	_			
	10				
	T	ime: (00030 set	t successfu	LIY
	Т	ime: (00030 set	successfu	LLy
	T	ime: (00030 set	: successfu	lly
	T	ime: (00030 set	successfu	
	T	ime: (00030 set	: successfu	

B.View the Recorded Waypoints

First click "**Read**" to download all the waypoints to computer, and then choose the "**date filter**" and the "**speed filter**" to view the specified waypoints. After choosing the filter, click "**View Map**", and the Google earth will open automatically, and display the waypoints accordingly.

When you want to empty the recorded waypoints, please click "Erase Data".

Note: If the red light flashes quickly on starting the unit, it means the logger's memory is full. Please erase the data first!

SB Setting SM	S APN	Tracker	Мар	About	
📃 Date Filter	From	2007/10/3	30 00:00:	00	
	То	2007/10/3	30 00:00:	00	
Speed Filter					
Speed		v			*
ReadData		EraseData]	View	Мар
	Inco	ming dat	ta:		
GPRMC,002952.000	A,0033.05	527,N,00004	.8780,E,	1.56,0.00,	.00000 🛃
0°53	A,0033.05	524,N,00004	.8798,E,	1.61,0.00	.00000
GPRMC,002953.000					
GPRMC,002953.000 "A*6C GPRMC,002954.000	A,0033.05	518,N,00004	.8831,E,	1.76,0.00,	.00000
GPRMC,002953.000 "A*6C GPRMC,002954.000 "A*6E GPRMC,002955.000	A,0033.05 A,0033.05	518,N,00004 516,N,00004	.8831,E, .8846,E,	1.76,0.00, 1.96,0.00,	.00000
GPRMC,002953.000 "A*6C GPRMC,002954.000 "A*6E GPRMC,002955.000 "A*6F GPRMC,002956.000	A,0033.09 A,0033.09 A,0033.09	518,N,00004 516,N,00004 530,N,00004	.8831,E, .8846,E, .8864,E,	1.76,0.00, 1.96,0.00, 1.88,0.00,	.00000 .00000 .00000
GPRMC,002953.000 "A*6C GPRMC,002954.000 "A*6E GPRMC,002955.000 "A*6F SPRMC,002956.000 "A*67 GPRMC,002957.000 "A*61	A,0033.0! A,0033.0! A,0033.0! A,0033.0!	518,N,00004 516,N,00004 530,N,00004 535,N,00004	.8831,E, .8846,E, .8864,E, .8890,E,	1.76,0.00, 1.96,0.00, 1.88,0.00, 1.81,0.00,	00000

C. Photo Logging

When you record the waypoints outside, you can take photos at the points of interest. After coming back, you can synchronize the photos of the camera with the points of interest recorded on the data logger, to view the photos and the waypoints simultaneously on the map.

a) Set the GPS data logger and Camera

First thing to do is synchronize the time of your data logger and camera. You can do in two different ways: 1). If you didn't change its setting, your GPS data logger records the track log with the GMT time (Greenwich Meridian Time) also know as UTC (Universal Time Co-ordinated). Set the time of your camera to GMT. You can see the actual GMT time at the bottom of this webpage (be precise at the second level): http://wwp.greenwichmeantime.com

Setting your camera to GMT is practical since you won't have problems for summer/winter time or when you travel through time zones. Also set the camera date if necessary.

2). Set the local time of the camera precisely to the same local time indicated by the GPS data logger. Also set the camera date if necessary.

b) Go outside and Shoot

Take your GPS data logger with you and make sure that it is recording a track log. Keep your GPS data logger ON during all the time you take pictures.

c) Come back home and sync

Please download the photos from the digital camera, and save the recorded waypoints in format: **.txt. Launch "GipcSync":

Gricsync	
Options Tools Melp	
Pictures folder	
Options: Image preview:	
✓ Create a Google Earth file: Elevation: Clamp to the ground 💽 🔽 with TimeStamp	
Google Maps export, folder URL=	
☐ Create a log file in picture folder ☐ interpolation 🔽 backup pictures	
add geonames and geotagged Geonames in EXIF keywords + HTML sumarize in IPTC caption	
UTC Offset= 0 Geocode picture only if time difference to nearest track point is below (seconds)= 300	
Supply and a set of the set of th	
Couldn't find or read configuration file.	
	~

Click "Pictures folder" to import the photos, and click "GPS file" to import the waypoints saved in the

file:**.txt. And press "Synchronise" to synchronize the photo and the waypoints:

GPicSync	
Options Tools Help	
Pictures folder E:\DATALOGGER\photo\photo	
GPS file E:\DATALOGGER\photo\gps.gpx	
Options:	
I Create a Google Earth file: Elevation: Clamp to the ground	
Google Maps export, folder URL=	
Create a log file in picture folder Interpolation ✓ backup pictures	
□ add geonames and geotagged Geonames in EXIF keywords + HTML sumarize in IPTC caption 💌	
Clear View in Google Earth Quit Quit and save settings	
(Found R0010566.JPGtaken 2007-11-23-14:14:00, writing best latitude/longitude match to picture: N 22.546730000 ,E 114.082573333 : time difference (s)= 1	^
(Found R0010567.JPGtaken 2007-11-23-14:17:29, writing best latitude/longitude match to picture: N 22.549380000 ,E 114.081476667 : time difference (s)= 2	
*** FINISHED GEOCODING PROCESS ***	
Adding the GPS track log to the Google Earth kml file	
Click on the 'View in Google Earth' button to visualize the result. (A Google Earth doc.kml file has been created in your picture folder.)	
	>
	100 M

Note:

• Depending on the way you've set your camera and GPS data logger, please indicate the UTC Offset as below:

+1 in France, 0 in the UK, -8 for PST, -5 for EST,etc, You may need to add an hour for summer local time depending of your country policy. 0 if your camera is at GMT time.

• There's also an indication of the time difference between the nearest track point and the picture (you should see a few seconds difference). If this difference is important (above a hundred seconds) there's probably something wrong in your time setting. In particular check that you've indicated the right UTC offset (and maybe add an hour if you are in a summer daylight saving zone). By default GPicSync doesn't Geocode photos if the time difference is above 300 seconds but you can adjust this threshold in the interface ("Geocode only if time difference is less than (seconds)="). This could be useful on some GPS if you make a pause and the GPS stops recording.

Then click "View in Google Earth" to start the Google Earth automatically:



Click on the icon to view the photo:



8 Troubleshooting

	Troubles Description	Solution & Causes	
1	The popup stays still, doesn't disappear when using GPRS	GPRS transmission is not stable. It builds up the connection, but doesn't send GPRS data. Please cancel the popup.	
-	tracking.	some of the same transformers are population	
2	There is an IP address existing in	It doesn't relate with the computer or the tracker. It is assigned by GPRS	
	"Connected Clients".	service provider. It doesn't affect tracker's working.	
3	Tracker doesn't work on Vista	The USB driver is for XP operation system only.	
	system.		
4	Red light stays on still.	The tracker doesn't read out its SIM card. SIM card may be damaged, or	
•		there is an AD to be confirmed as it is used on mobile phone.	
	There are more than 1 routers	The IP address set on tracker's SIM card will be the outermost router's one,	
5	deployed in tree structure.	and the Port Number will be coherent in all the routers. Above router's IP	
5		will be assigned to the lower one, so that the GPRS data will be led to the	
		right computer.	
6	The logger can't record more	The memory is full, and the user should erase the recorded data manually.	
0	waypoints.		
7		GPRS tracking doesn't work with wireless internet connection.	

9 Worldwide APN (Access Point Name) List

Country	Mobile operator	Access point name
Argentina	Personal	gprs.personal.com
Argentina	Unifon	internet.gprs.unifon.com.ar
Australia	Telstra	telstra.internet
Australia	Optus	internet
Australia	Three	3netaccess
Australia	Vodafone	internet
Austria	Max Online	gprsinternet
Austria	One	wap.one.at
Belgium	Orange	orangeinternet
Belgium	Mobistar	web.pro.be
Belgium	Proximus	internet.proximus.be
Bermuda	AT&T	proxy
Bermuda	Mobility	net.bm
Brazil	Claro	claro.com.br
Brazil	Oi	gprs.oi.com.br
Brazil	TIM	tim.br
Bulgaria	Mobiltel (Mtel)	inet-gprs.mtel.bg
Canada	Fido	internet.fido.ca
Canada	Rogers AT&T	internet.com
Chile	Entel PCS	imovil.entelpcs.cl bam.entelpcs.cl
Chile	Telefonica GSM	web.tmovil.cl
China	China Mobile	cmnet
Croatia	VIPNET	gprs.vipnet.hr
Czech Republic	Eurotel	internet
Czech Republic	Oskar	internet
Czech Republic	Oskar prepaid cards	ointernet
Czech Republic	T-Mobile	internet.t-mobile.cz

Denmark	TDCmobil	internet
Denmark	Orange	web.orange.dk
Eygpt	Vodafone	internet.vodafone.net
Domincan Republic	Orange Domiricana	orangenet.com.do
Finland	Telia Mobile	internet
Finland	DNA	internet
Finland	Sonera	internet
Finland	Radiolinja	internet
Finland	Saunalahti	saunalahti
France	Orange	orange.fr
France	SFR	websfr
France	Bouygues Telecom	eBouygTel.com
Germany	D2 Vodafone	web.vocafone.de
Germany	E-Plus	internet.eplus.de
Germany	02	internet
Germany	Quam	quam.de
Germany	T-Mobile D1	internet.t-d1.de
Greece	Vodafone	internet.vodafone.gr
Greece	Telestet	gint.b-online.gr
Greece	Cosmote	internet
Hungary	Vodafone (Prepaid "Optimized")	vitamax.nternet.vodafone.net
Hungary	Vodafone (Prepaid "Standard")	vitamax.snet.vodafone.net
Hungary	Vodafone (Postpaid "Optimized")	internet.vodafone.net
Hungary	Vodafone (Postpaid "Standard")	standardnet.vodafone.net
Hong Kong	CSL	internet
Hong Kong	Orange	web.orangehk.com
Hong Kong	New World	internet
Hong Kong	People	internet
Hong Kong	SmarTone	internet

Hong Kong	Sunday	internet
India	Orange, Hutch	www
Iceland	Siminn	gprs. simi.is
India	BPL Mobile	bplgprs.com
India	Airtel	airtelgprs.com
Indonesia	Telkomsel	internet
Ireland	02	internet
Ireland	Vodafone	live.vodafone.com
Israel	Cellcom	internetg
Israel	Orange	internet
Italy	TIM	uni.tim.it ibox.tim.it
Italy	Vodafone Omnitel	web.omnitel.it
Italy	Wind	internet.wind
Latvia	Latvia Mobile Telefone	internet.lmt.lv
Luxembourg	LUXGSM	web.pt.lu
Luxembourg	Tango	internet
Malaysia	Celcom	celcom.net.my
Mexico	Movistar	internet.movistar.mx
Mexico	Telcel	internet.itelcel.com
Montenegro	Monet	gprs.monetcg.com
Netherlands	T-Mobile	internet
Netherlands	KPM Mobile	internet
Netherlands	Orange.	internet
Netherlands	02	internet
Netherlands	Vodafone (normal)	web.vodafone.nl
Netherlands	Vodafone (business)	office.vodafone.nl
New Zealand	Vodatone NZ	www.vodafone.net.nz
Norway	Netcom	internet.netcom.no

Norway	Telenor	internet
Pakistan	UFonc	ufonc.internet
Paraguay	Personal	internet
Paraguay	Tigo	internet.tigo.py
Philippines	Smart	internet
Philippines	Globe	internet.globe.com.ph
Poland	Era	erainternet
Poland	Idea	www.idea.pl
Poland	PlusGSM	www.plusgsm.pl
Portugal	Optimus	internet
Portugal	TMN	internet
Portugal	Vodafone (Telcel)	internet.vodafone.pt
Romaria	Connex	internet.connex.ro
Romaria	Orange	internet
Russia	BeeLine	internet.beeline.ru
Russia	Megafon	internet.nw
Russia	MTS	internet.mts.ru
Russia	PrimTel	internet.primtel.ru
Saudi Arabia	Saudi Telecom	Jawalnet.com.sa
Serbia-Montenegro	Mobtel Srbija	internet
Serbia-Montenegro	Felekom Srbija	gprsintemet
Singapore	M1	sunsurf
Singapore	Singtel	internet
Singapore	Starhub	shwapint
Slovakia	Eurotel	internet
Slovakia	Orange	internet
South Africa	MTN	internet
Spain	Amena	amenawap

Spain	Telefonica (Movistar)	movistar.es
Spain	Vodafone	airtelnet
Sweden	Telia	online.telia.se
Sweden	Vodafone SE	internet.vodafone.net
Switzerland	Swisscom	gprs.swisscom.ch
Switzerland	Orange CH	internet
Switzerland	sunrise	internet
Switzerland	UMC	www.umc.ua
Taiwan	Chunghwa Telecom	emome
Taiwan	Far EasTone	fetnet01
Taiwan	KG Telecom	internet
Taiwan	Taiwan Cellular	internet
Thailand	AIS	internet
Thailand	DTAC	www.dtac.co.th
Turkey	Avea	internet
Turkey	Aycell	ayce11
Turkey	Telsim	telsim
Turkey	Turkcell	internet
UK	Jersey Telecom	pepper
UK	02	mobile.o2.co.uk
UK	T-Mobile	general.t-mobile.co.uk
UK	Vodafone UK	internet
UK	Orange	orangeinternet
Ukraine	Kyivstar GSM	www.kyivstar.net
Ukraine	UMC	www.umc.ua
USA	T-Mobile	internet2.voicestream.com
USA	AT&T	proxy
USA	Cingular	isp.cingular
Venezuela	Digital TIM	gprsweb.digitel.ve
Vietnam	MobiFone	Mobi-gprs-wap