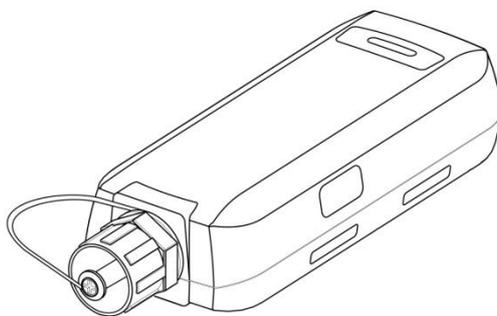


GlobalSat DG-388

User Manual



Version: 1.1

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1. Warning



USE RESPONSIBLY. READ ALL INSTRUCTIONS AND SAFETY INFORMATION BEFORE USE.

GlobalSat WorldCom Corporation / USGlobalSat, Inc., will not accept any responsibility whatsoever for accidents or violations of local Laws resulting from failure to observe common sense precautions and local laws. Your personal judgment, traffic regulations, and common sense must always take precedence over any directions produced by GPS receiver or the mapping software.

Indemnification:

User agrees to defend, indemnify and hold harmless GlobalSat WorldCom Corp. and USGlobalSat, Inc., its officers, directors, employees and agents against and from any third party claims, actions, damages or demands, including but not limited to, reasonable legal and accounting fees, resulting from user's use or misuse of this product, violation of these Terms, or any activities related to this product, or from user's violations of the rights of any other user of this product. Use of this Product is at user's own risk.

2. Welcome

Thank you for purchasing the GlobalSat DG-388. The DG-388 is a sleek, compact personal data logger. We appreciate your purchase of a GlobalSat WorldCom Product!

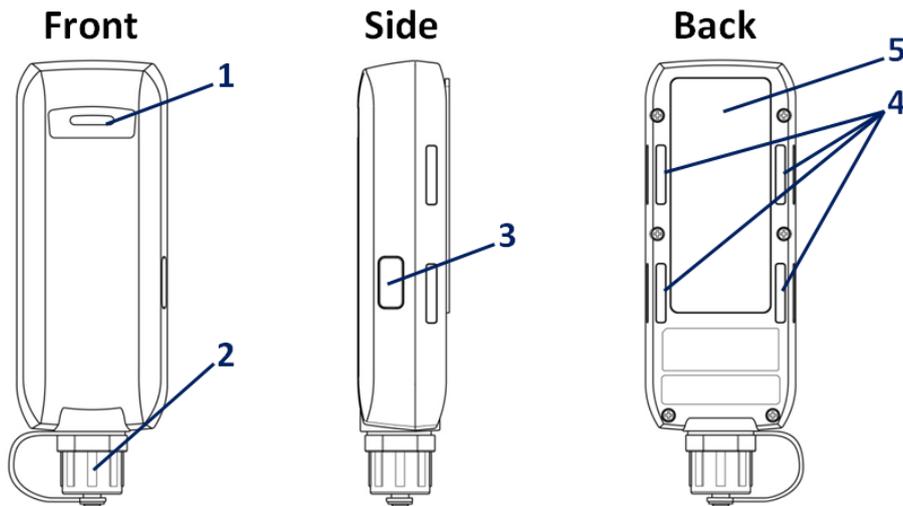
3. Introduction and Features

3.1 Introduction

The GlobalSat DG-388 is a GPS data logger to accurate records tracking data from the received GPS signal. The DG-388 records time, the date, traveling speed, altitude and GPS location at preset intervals.

Its lightweight and water-proof, durable all-in-one design includes audible and motion sensor with maximum power saving. Easy to use and allow field personal to record point of interest by press a button.

Through use the friendly PC tool can display your track on OpenStreetMap by connecting the DG-388 via G.S USB cable to your PC.



- 1 LED
- 2 Connection for power and data transmission
- 3 Power button
- 4 Holes for fix device by belt or rope
- 5 Magnetic mount and double-side tape

3. Introduction and Features (Continued)

3.2 LED Indicators

Power LED

LED	Orange Constantly Lit	Blinking Orange
State	DG-388 is being charged	Battery power is low

Note: When DG-388 is fully charged, the power LED will turn off.

GPS LED

LED	Quickly blinking Green	Slowly blinking Green
State	DG-388 is searching for GPS fix	DG-388 receives GPS fix

Other LED

LED	Four-color marquee (1 time)	Blink Red
State	Tag location done	1) Store data more than 80% 2) When temperature is over 45°C or below 0°C during charging, it will force device to stop charging due to protection device and blink Red.

Note:

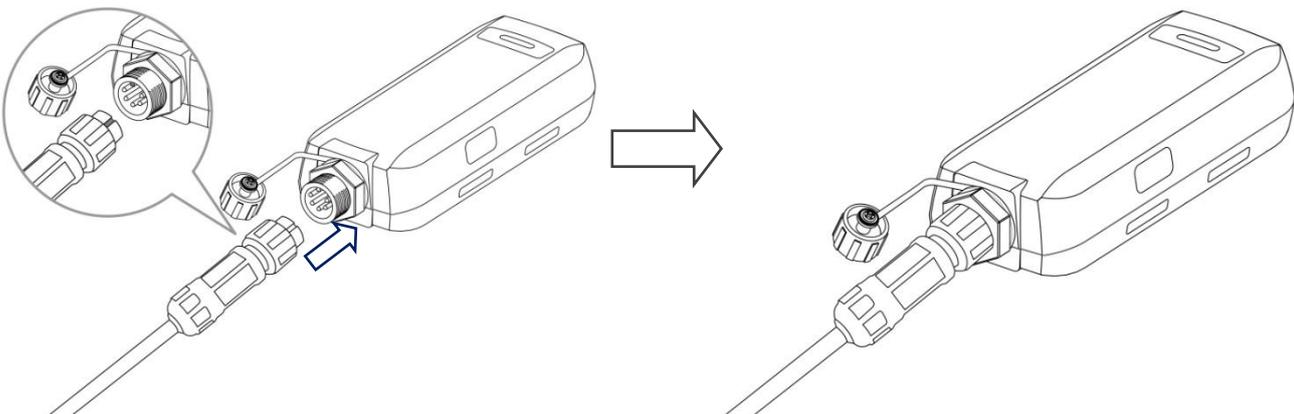
1. When stored data is full, it could not record any data. Please dump data as soon as possible when device has blink RED.
2. When device is off and then connects to USB adapter or PC, it will have 30 seconds background setting process with hold Blue LED. It could be jumped out by short press power button once.

4. Device Operation

4.1 Device charging

Using the device for the first time, rechargeable battery will require a complete 100% charge before DG-388 is operable. To maximize your device's battery life, proceed by performing the steps listed below.

1. Turn on device first and connect DG-388 to the AC power adapter via G.S cable and make clockwise rotation till it is tighten.
2. Allow at least 3 hours of battery charging time.



Note:

The cover of DG-388 needs to be well tightened for water proof.

4.2 Power Button



1. To turn the device "ON/OFF", short press the power button until the device has a short beep sound with short vibration.
2. To perform a hard reset, press and hold the power button for over 10 seconds.
3. **When device is turned on, you could tag current location by short press power button once. When you tag, LED will flash marquee with a hint sound and short vibration.**

5. DG-388 PC Tool Operation

5.1 PC Tool Function

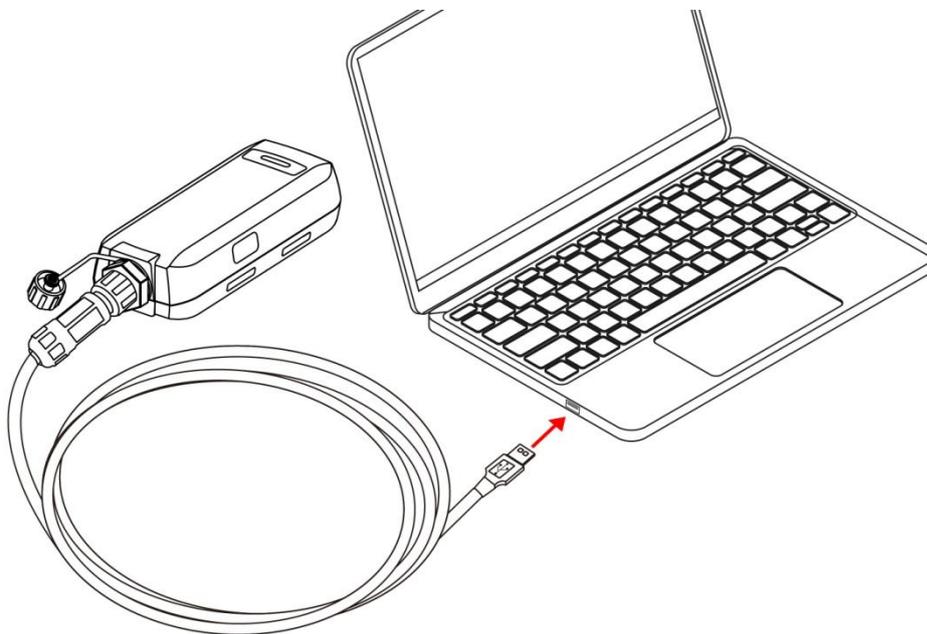
Loading the recorded data	Load the traveled path data into PC and save it		
Saving data into different format	(1) KML format for Google Earth		
	(2) GPX format file		
	(3) CSV format file		
	(4) GSX format file		
Device Setting	Data logging method	Time	Use time as data logging unit. If you select '1' Sec in Time, it will record data every second.
		Distance	Use distance as data logging unit. If you fill '25' meters, it will record a path data every 25 meters.
		speed	Use speed zone selection to record data. Our default max speed limit is 100 and low speed limit is 60. If you select 'medium', it will record speed data which is between 60 to 100 km/h. If you select 'low', it will record speed data lower than 60 km/h. If you select 'high', it will record speed data greater than 100 km/h.
	Data logging setting	Time	1 / 5 / 10 Sec
		Distance setting(meter)	25 (range: 25~10k meters)
		Speed zone	low / medium / high
		Max speed limit (km/h)	100 km/h (range: 1~300 km/h)
		Low speed limit (km/h)	60 (range: 1~300 km/h)
	Other setting	Motion detection	Off/on If you select 'off', it will record data all the time. If you select 'on', it will go to power saving mode when detecting no movement for 300 seconds.
		GPS static	On/off If you select 'on', it will show path data at the

		same location if device get 3D GPS fix in surrounding place with very low speed. If you select 'off', it will show path data according to real 3D GPS fix.
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5.2 Main Screen Introduction

Start to connect

1. Turn on the device.
2. Connect device with PC via DG-388 connection cable. It will take some time for automatically install driver to get COM port.

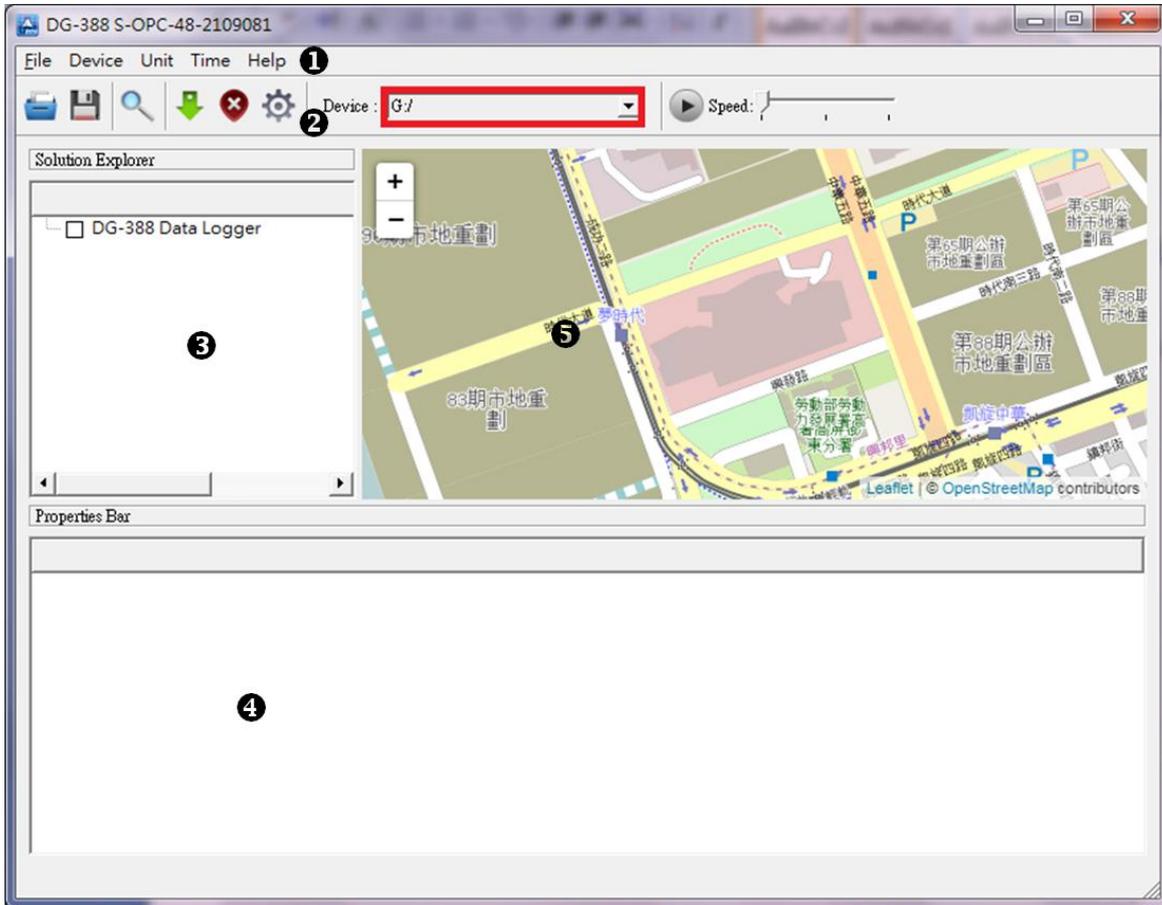


Warning: Please safely remove a USB drive before disconnecting device from PC, or the travelled path data would be damaged or unread.

3. Please download DG-388 tool as following link. Unzip it and execute DG-388-PCTool.exe for simple installation.

https://drive.google.com/file/d/1GscFv6KQpeyueILxopVIPw-i7je0PNtr/view?usp=share_link

4. Click GlobalSat-DG-388 tool  icon and it will be displayed as following picture. Device G:\ should be selected automatically as red square.



① Menu bar

② Tool bar

 Open the file in the PC

 Save data to PC

 Filter function

 Download log from device

 Erase all device logs

 Device setting

 Play Log file

③ Traveled path data list :

List the traveled path data loaded from DG-388 or from file

④ Traveled path information field :

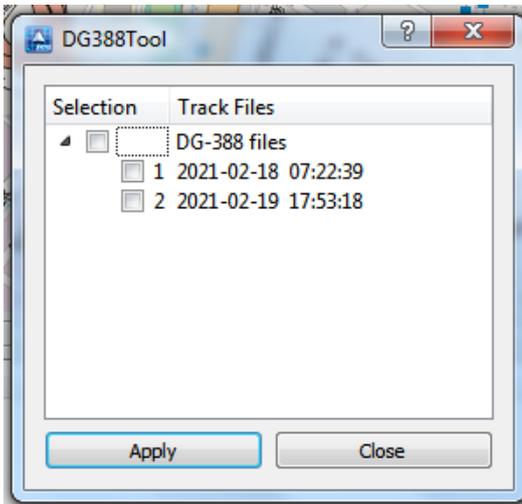
Show the information of traveled data, including date, time, longitude, latitude, speed, and height.

⑤ OpenStreetMap Display:

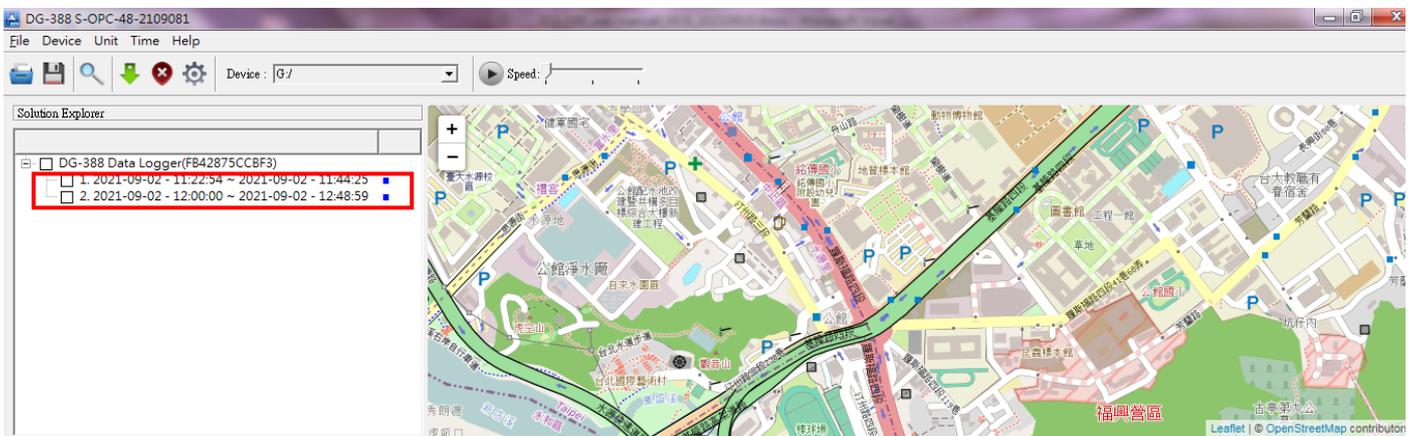
Show the selected point of the traveled data list on OpenStreetMap

5.3 Download and set the traveled path data

1. Click  to downlink all traveled path data. You could select the travel path by selecting  the data in the travel path list. Then click **Apply** button.

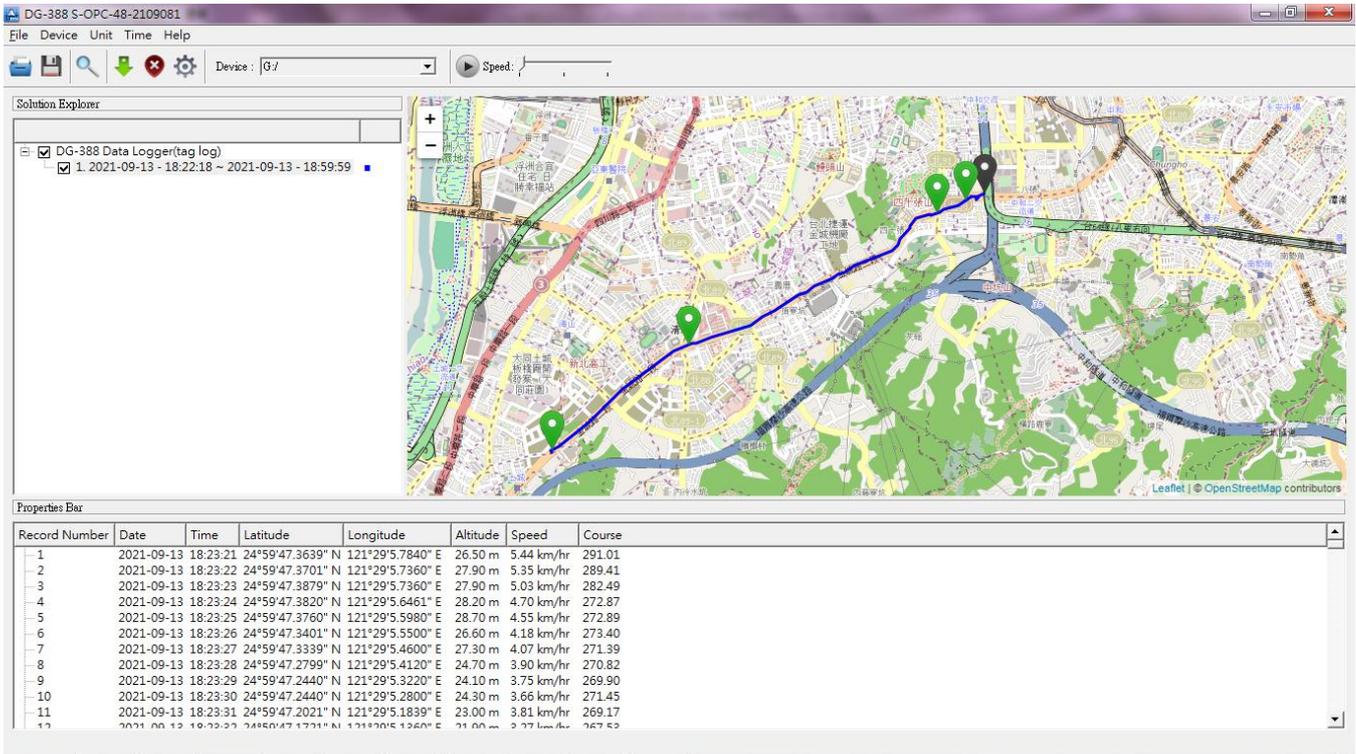


2. The downloaded data would be displayed on the traveled path data list. Each data would be displayed with the starting/ending date and time.



Please note it will only show 3D fix data and traveled path data in right side.

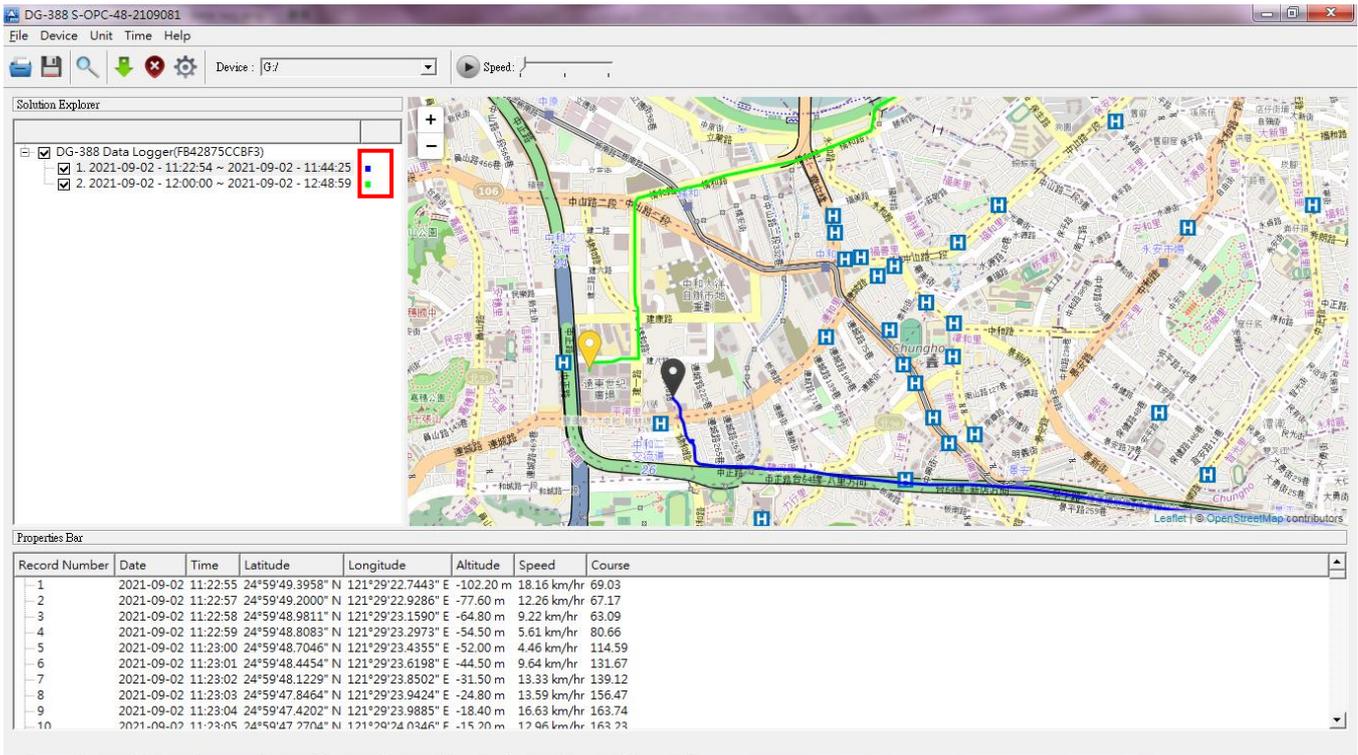
3. You could display the traveled path data on OpenStreetMap by selecting the data in the traveled path list. If you double click the traveled path, OpenStreetMap would move to the starting point of that traveled path. The Traveled Path Information field would display all the recorded points. The manually saved waypoints would be marked with .



The screenshot shows the GlobalSat software interface. The main window displays a map with a blue traveled path and several green location pins. The left sidebar shows the 'Solution Explorer' with a tree view containing 'DG-388 Data Logger(tag log)' and a sub-entry for '1. 2021-09-13 - 18:22:18 ~ 2021-09-13 - 18:59:59'. The bottom section is a 'Properties Bar' containing a table of recorded data points.

Record Number	Date	Time	Latitude	Longitude	Altitude	Speed	Course
1	2021-09-13	18:23:21	24°59'47.3639" N	121°29'5.7840" E	26.50 m	5.44 km/hr	281.01
2	2021-09-13	18:23:22	24°59'47.3701" N	121°29'5.7360" E	27.90 m	5.35 km/hr	289.41
3	2021-09-13	18:23:23	24°59'47.3879" N	121°29'5.7360" E	27.90 m	5.03 km/hr	282.49
4	2021-09-13	18:23:24	24°59'47.3820" N	121°29'5.6461" E	28.20 m	4.70 km/hr	272.87
5	2021-09-13	18:23:25	24°59'47.3760" N	121°29'5.5980" E	28.70 m	4.55 km/hr	272.89
6	2021-09-13	18:23:26	24°59'47.3401" N	121°29'5.5500" E	26.60 m	4.18 km/hr	273.40
7	2021-09-13	18:23:27	24°59'47.3339" N	121°29'5.4600" E	27.30 m	4.07 km/hr	271.39
8	2021-09-13	18:23:28	24°59'47.2799" N	121°29'5.4120" E	24.70 m	3.90 km/hr	270.82
9	2021-09-13	18:23:29	24°59'47.2440" N	121°29'5.3220" E	24.10 m	3.75 km/hr	269.90
10	2021-09-13	18:23:30	24°59'47.2440" N	121°29'5.2800" E	24.30 m	3.66 km/hr	271.45
11	2021-09-13	18:23:31	24°59'47.2021" N	121°29'5.1839" E	23.00 m	3.81 km/hr	269.17
12	2021-09-13	18:23:32	24°59'47.1771" N	121°29'5.1360" E	21.00 m	3.77 km/hr	267.53

4. You could select several traveled paths to display on OpenStreetMap. The traveled paths could be marked by different colors according to your color settings as red square mentioned.



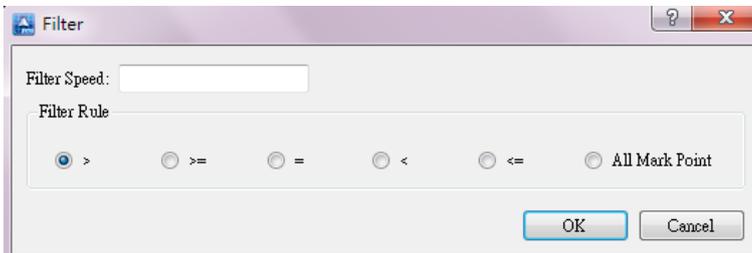
Record Number	Date	Time	Latitude	Longitude	Altitude	Speed	Course
1	2021-09-02	11:22:55	24°59'49.3958" N	121°29'22.7443" E	-102.20 m	18.16 km/hr	69.03
2	2021-09-02	11:22:57	24°59'49.2000" N	121°29'22.9286" E	-77.60 m	12.26 km/hr	67.17
3	2021-09-02	11:22:58	24°59'48.9811" N	121°29'23.1590" E	-64.80 m	9.22 km/hr	63.09
4	2021-09-02	11:22:59	24°59'48.8083" N	121°29'23.2973" E	-54.50 m	5.61 km/hr	80.66
5	2021-09-02	11:23:00	24°59'48.7046" N	121°29'23.4355" E	-52.00 m	4.46 km/hr	114.59
6	2021-09-02	11:23:01	24°59'48.4454" N	121°29'23.6198" E	-44.50 m	9.64 km/hr	131.67
7	2021-09-02	11:23:02	24°59'48.1229" N	121°29'23.8502" E	-31.50 m	13.33 km/hr	139.12
8	2021-09-02	11:23:03	24°59'47.8464" N	121°29'23.9424" E	-24.80 m	13.59 km/hr	156.47
9	2021-09-02	11:23:04	24°59'47.4202" N	121°29'23.9885" E	-18.40 m	16.63 km/hr	163.74
10	2021-09-02	11:23:05	24°59'47.2704" N	121°29'24.0346" E	-15.20 m	17.96 km/hr	163.23

5. You could check the details of each point in the traveled path information field. The manually saved waypoints would be marked with star signs.

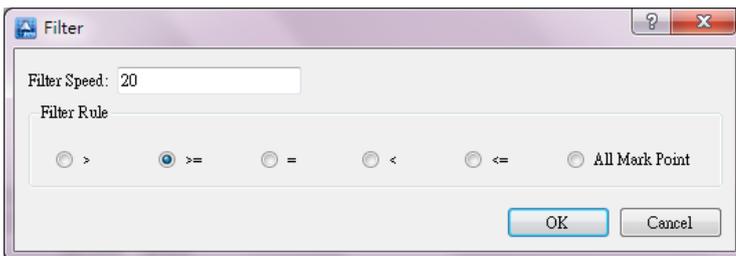
Record Number	Date	Time	Latitude	Longitude	Altitude	Speed	Course
710	2021-09-13	18:35:15	24°59'45.3300" N	121°29'0.0240" E	30.00 m	0.00 km/hr	237.73
711	2021-09-13	18:35:16	24°59'45.3360" N	121°29'0.0240" E	30.10 m	1.68 km/hr	242.38
712	2021-09-13	18:35:17	24°59'45.3300" N	121°28'59.9760" E	30.10 m	2.90 km/hr	239.20
713*	2021-09-13	18:35:18	24°59'45.2939" N	121°28'59.9340" E	30.00 m	6.31 km/hr	240.55
714	2021-09-13	18:35:19	24°59'45.1980" N	121°28'59.8380" E	30.00 m	11.00 km/hr	230.51
715	2021-09-13	18:35:20	24°59'45.0900" N	121°28'59.6520" E	30.00 m	15.50 km/hr	232.38

5.4 Filter the Travel path data

1. Click on the icon  and you would see the screenshot as below.



2. Enter the speed you'd like to filter and choose the filter rule. For example, you fill filter speed '20' and select filter rule '>='. Then you could get the traveled path data of your setting by clicking **OK**.



3. Corresponding data is as following.

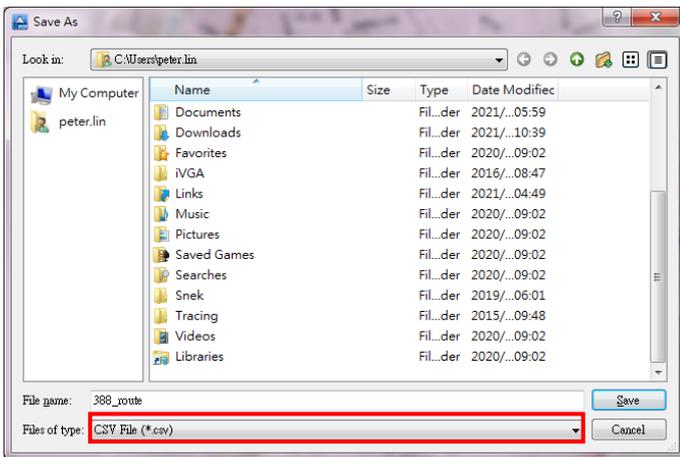
Record Number	Date	Time	Latitude	Longitude	Altitude	Speed	Course
1	2021-09-13	18:34:57	24°59'45.8160" N	121°29'0.7140" E	30.00 m	21.79 km/hr	229.41
2	2021-09-13	18:34:58	24°59'45.7260" N	121°29'0.5760" E	30.00 m	20.22 km/hr	232.24
3	2021-09-13	18:35:22	24°59'44.8501" N	121°28'59.2860" E	29.90 m	21.42 km/hr	236.92
4	2021-09-13	18:35:23	24°59'44.7421" N	121°28'59.0100" E	29.90 m	24.03 km/hr	241.74
5	2021-09-13	18:35:24	24°59'44.5981" N	121°28'58.7341" E	29.80 m	26.59 km/hr	241.03
6	2021-09-13	18:35:25	24°59'44.4539" N	121°28'58.4580" E	29.80 m	27.26 km/hr	241.42
7	2021-09-13	18:35:26	24°59'44.3280" N	121°28'58.1760" E	29.80 m	29.11 km/hr	242.60
8	2021-09-13	18:35:27	24°59'44.1959" N	121°28'57.9060" E	29.70 m	29.03 km/hr	243.81
9	2021-09-13	18:35:28	24°59'44.0879" N	121°28'57.6300" E	29.70 m	28.68 km/hr	244.76
10	2021-09-13	18:35:29	24°59'43.9801" N	121°28'57.4440" E	29.60 m	25.15 km/hr	244.43
11	2021-09-13	18:35:30	24°59'43.8780" N	121°28'57.2160" E	29.60 m	23.37 km/hr	245.24
12	2021-09-13	18:35:31	24°59'43.7819" N	121°28'56.9820" E	29.50 m	22.94 km/hr	245.92
13	2021-09-13	18:35:32	24°59'43.7100" N	121°28'56.7960" E	29.50 m	20.92 km/hr	246.75
14	2021-09-13	18:38:08	24°59'38.1420" N	121°28'42.8340" E	30.00 m	20.57 km/hr	221.75
15	2021-09-13	18:38:09	24°59'37.9681" N	121°28'42.6960" E	30.10 m	21.26 km/hr	215.54
16	2021-09-13	18:38:10	24°59'37.7639" N	121°28'42.6060" E	30.20 m	23.68 km/hr	212.99
17	2021-09-13	18:38:11	24°59'37.5721" N	121°28'42.4200" E	30.40 m	25.03 km/hr	211.93
18	2021-09-13	18:38:12	24°59'37.3741" N	121°28'42.3300" E	30.40 m	23.27 km/hr	215.12
19	2021-09-13	18:38:13	24°59'37.2180" N	121°28'42.1920" E	30.40 m	20.79 km/hr	213.46

4. Select All Mark Point would display all the manually saved point.

Record Number	Date	Time	Latitude	Longitude	Altitude	Speed	Course
1*	2021-09-13	18:35:18	24°59'45.2939" N	121°28'59.9340" E	30.00 m	6.31 km/hr	240.55
2*	2021-09-13	18:37:03	24°59'41.8261" N	121°28'50.8500" E	28.90 m	12.22 km/hr	253.97
3*	2021-09-13	18:48:39	24°59'4.2421" N	121°27'33.2100" E	19.40 m	15.46 km/hr	256.45
4*	2021-09-13	18:53:23	24°58'34.1400" N	121°26'50.6280" E	24.40 m	0.00 km/hr	250.74

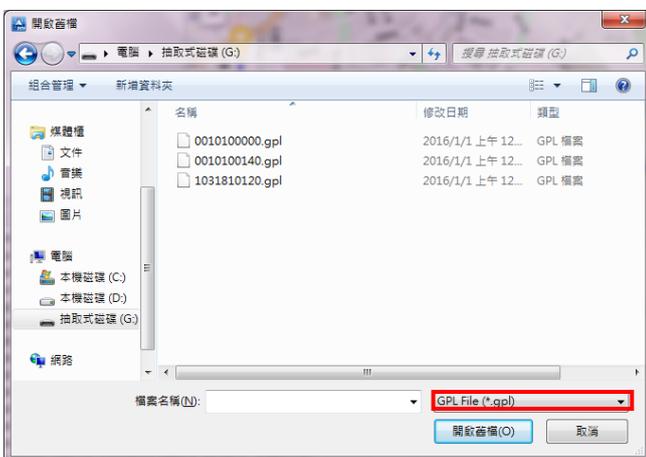
5.5 Save Data to PC/ Open Data from PC

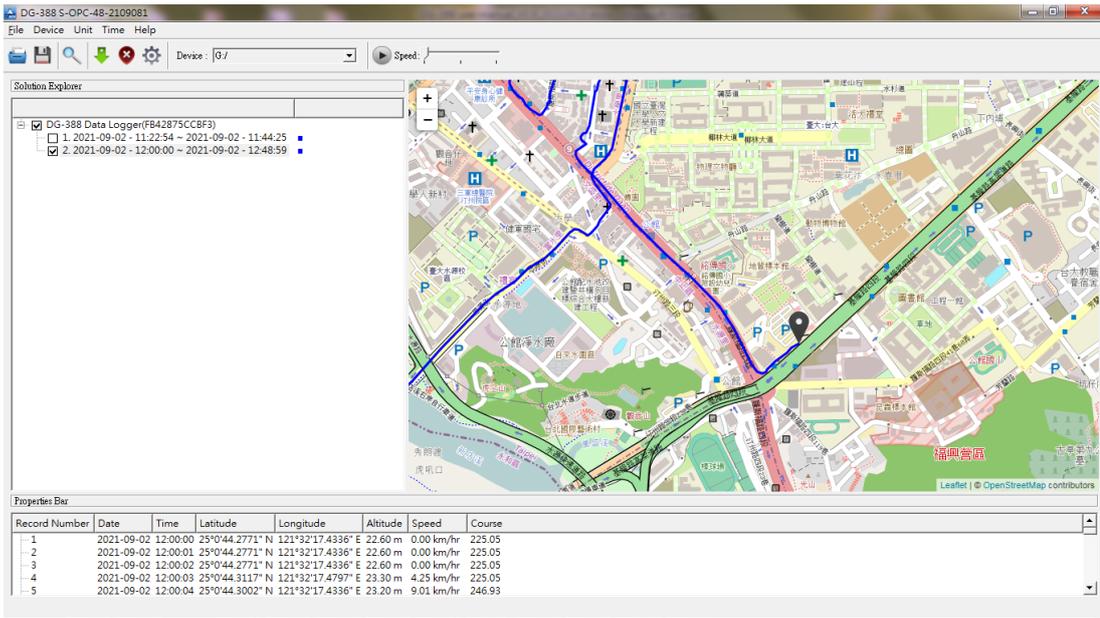
1. If you would like to save file to be other format, click  of menu, for example, name it '388_route' and save as .CSV format. It could be saved as GSX, GPX, KML according to your selection.



2. Click  of menu, select the log data, for example, 1031810120.gpl in GPL format.

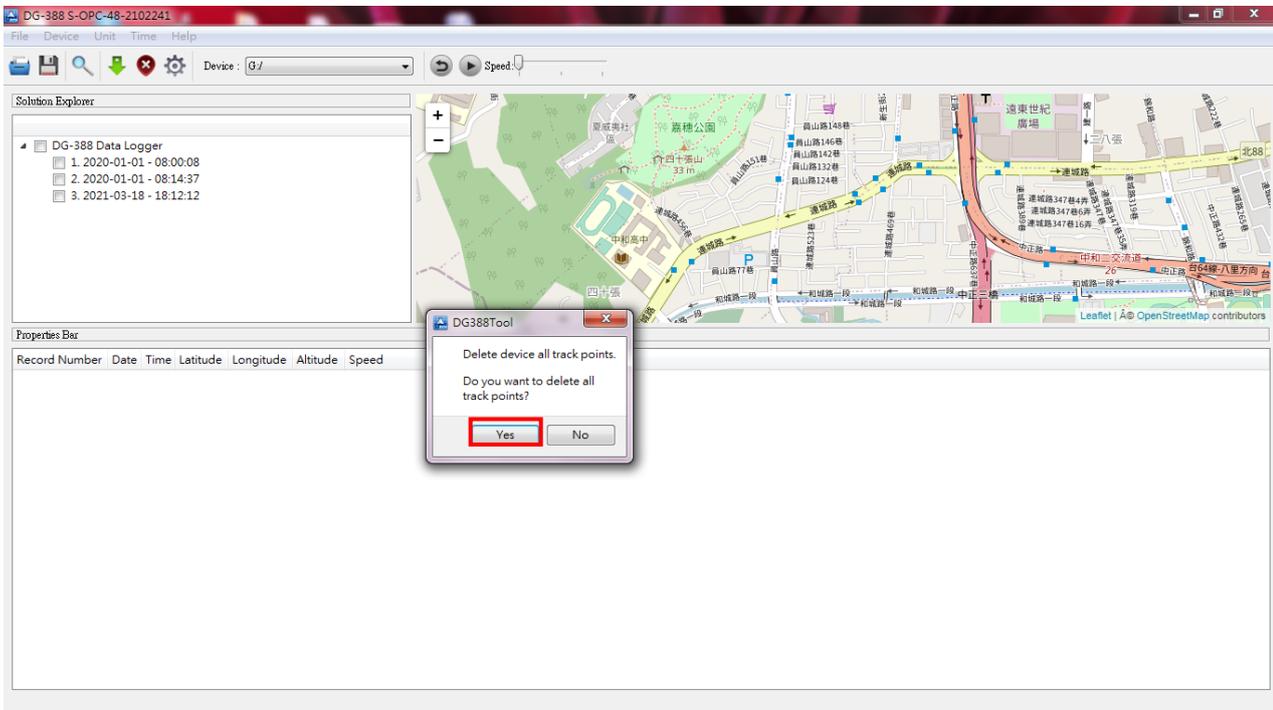
The travel path data will be appeared in Traveled path data list.



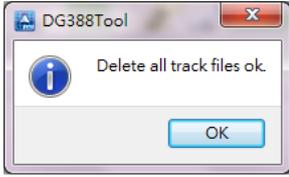


5.6 Erase all device logs

1. If you would like to delete all device logs, click  and a small window will be pop up and mentioned 'Do you want to delete all travel path data?'

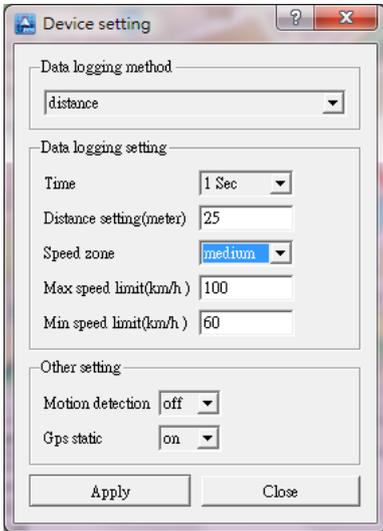


2. Click **Yes** button and all track files in device will be deleted. 'Delete all track files ok' will pop up.

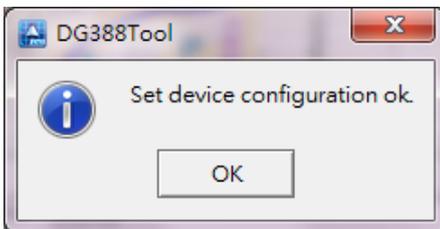


5.7 Device Setting

1. Click on  icon on tool bar or select **[Device] → [Device Setting]**.
You would see the screenshot as below.



2. You could modify Data logging method, Data logging setting or other setting by drop-down menu or fill the value on field. Please refer to chapter 5.1 for each setting explanation. After you finish your settings, please click Apply to write new settings to device. It will show 'Set device configuration ok' when settings are done as following picture.



6. Safety Information

- Please consult your airline prior to the operation of this product in the aircraft. . Operating this product in environments emitting intensive radio waves or radiation can affect the operation and functionality of this product.
- Avoid use in humid or rainy environment. Water ingress can disable or destroy this product beyond repair.
- Avoid using this product in a dusty environment. Dust ingress can compromise the products ability to function.
- Avoid situations that include Over-voltage, over charging, power cable damage may cause overheating or potential fire disaster.
- Never use any chemical or detergent to clean the Personal Tracker to prevent erosion of the surface or paintwork.
- In order to eliminate the risk of electric shock, make certain the charging cable is completely inserted / seated, do not touch the power cable plug / connectors with wet or damp hands.
- Do not charge the Device in any extreme cold or hot temperatures, which may cause damage to the device.
- Keep out of the reach of person or combustibles during charging.
- Avoid direct prolonged exposure to sunlight and high temperatures to avoid the potential over-heating of the battery of this product, which may cause damage.
- Please do not attempt to repair this device yourself, contact GlobalSat or USGlobalSat for Technical Support.
- Keep all the wires tidy in order to prevent damage or tangling.

7. FCC Statement

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.