

Outdoor GPS Device Boomerang User Manual

Version 3.0



GlobalSat Technology Corporation 16F., NO.186, Jian-Yi Road, 235 Chung Ho City

16F., NO.186, Jian-Yi Road, 235 Chung Ho City Taipei Hsien, Taiwan , R.O.C. Tel: +886-2-8226-3799 Fax: +886-2-8226-3899 www.globalsat.com.tw www.gs-sport.com

USGlobalSat, Inc.

14740 Yorba Court Chino, CA 91710 Tel: 1+909-597-8525 Fax: 1+909-597-8532 www.usglobalsat.com

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Thank you for purchasing GS-Sport GH-561. We hope you to enjoy using this high tech GPS device. To fully understand the functions and features of the GH-561, please read the user manual before you use your device for the 1st time.

1. Introduction and Features

1.1 Introduction

The GS-Sport GH-561 is a route-planning device, which combines style and rigidity in a fully sealed, IPX4 water resistant housing. The GPS navigation function can locate and track points anywhere you go, you can plan the route on the Travel Manger included software before your trip. The GH-561 is powered by a SiRF Star III high performance GPS chipset that can fix your position even with a weak signal status.

1.2 Features

- Built-in SiRF Star III LPx high performance GPS chipset. Excellent sensitivity for position fixing even with a weak signal status.
- Built-in rechargeable high capacity lithium-ion battery.
- Large LCD for easy reading.
- WAAS/ ENGOS support.
- IPX4 Waterproof, rigid design.
- Accurate E-Compass
- Can be used as a simple route navigator
- Intuitive graphical interface.

2. Specifications

Ele	ctrical and Mechanical Parameters General	
ltem	GH-561	
Number of Waypoints	10	
Route	5	
Display Size	21.9 x 32.87 (H x W in m	m.)
Display type	4 gray color LCD	
Pixels (H x W)	96 x 128	
Unit Weight	90g	
Waterproof Standard	IPX4	
Unit Size	76.5 x 61.5 x 17.5 (L x D (_) x H in mm.)	
Backlight Display	Single level	
Operating temperature	-10°C – 60 °C	
Humidity	5% to 95% Non-condensing	
Voltage	3.7V for a rechargeable battery, 5V for charging input;	
Charging connector	DC 5V	
Battery	Rechargeable 1600mAh Li-Polymer 623759 battery	
Power Consumption	GPS (3D fixed) , Backlight on	75mA
Power Consumption	GPS (3D fixed) , Backlight off	50mA
	GPS (3D fixed), Backlight on	19 hrs
Battery life	GPS (3D fixed) , Backlight off	30 hrs
Connect to PC Interface	USB interface	
Charger	Mini USB 350mA, 3 hours co	ompleted
Electronic Compass	YAMAHA YAS52P 3Ax	•
	GPS Parameters General	

GPS Chipse	SiRF Star III LPx	
Frequency	L1, 1575.42 MHz	
C/A code	1.023 MHz chip rate	
Channels	20 channel all-in-view tracking	
Antenna Type	Built-in patch antenna	
Position	10 meters, 2D RMS 5 meters, 2D RMS, WAAS enabled	
Velocity	0.1 m/s	
Time	1 us synchronized to GPS time	
Default datum	WGS-84	
Reacquisition	0.1 sec., average	
Hot start	1 sec., average	
Warm start	38 sec., average	
Cold start	42 sec., average	
Altitude	18,000 meters (60,000 feet) max.	
Velocity	515 meters/ second (1000 knots) max.	
Acceleration	Less than 4g	
Jerk	20 m/sec3	

3. Hardware Overview

3.1 Accessories

Check the contents of your GH-561 packaging. If you find any accessories are missing or appear damaged, please contact your dealer immediately.





Quick Guide

3.2 Button Functions



	Button	Description
1.	POWER / LIGHT	 Power on/off and Backlight control
2.	MARK W.P. / ESC	 Mark points and escape to last page
3.	FIND WAYPOINT	 Go to waypoint
4.	TRACK BACK	Following traveling route
5.	SCROLL	Scrolling select
6.	OK	Enter and confirm

3.3 Antenna Introduction



The GPS antenna is located in the lower part of the device. Face it towards the sky for a better GPS fix when turning on.

3.4 Battery Introduction

The GH-561 uses a built-in Li-Polymer rechargeable battery. A battery icon shown on the left bottom corner of screen indicates the remaining battery power.

- To charge the battery:
 - Connect one end of the provided USB charging cable with the GH-561 unit and the other end with the AC adapter or USB port on your PC.
 - 2. The GH-561 unit may need about **5-6 hours** to fully charge the battery.

Note: Please fully charge before first use.

4. Getting Started 4.1 Starting the GH-561





Press and hold the Power button for 2 seconds to turn on the device. You will see the welcome screen displayed. Allow the GH-561 a short period of time to track satellites for the first time you use it. Take your GH-561 outside or to an open space with a clear view to the sky and it will make acquiring a satellite signal easier. Press the "OK" button to exit the Locating Satellites screen.



4.2. Icon Explanation



The battery icon indicates the remaining battery power. Blinking means the device has little battery power left.

E-Compass status indicator - Blinking: The E-Compass is experiencing magnetic interference or is unstable, the device will need to be re-calibrated.

- GPS status indicator
- No bars: No signal
- Blinking: 2D fix
- Solid: 3D fix
- Solid with 1 bar: 3D fix with poor signal
- Solid with 2 bars: 3D fix with good signal
- Solid with 3 bars: 3D fix with strong signal

5. Routes

5.1 Start Route

- If you want to do geo-caching or navigate, you can perform it by following these steps:.
- Press the button to select a route you have already planned on your PC and then

press "OK"

- 2. The detail track points will be list, you can see the information and modify track point as follows
- (a) Press 😇 or 🕉 to select the track point and then pressing "OK" button to modify.
- (b) After modified, click "FOLLOW?" to start route navigation.
- (c) Then select "backward" or "forward" to start the trip.
- 3. The E-Compass will show the direction on display along with the rest of the distance and estimated time of arrival based upon your current speed.
- 4. Press "OK" button will show map page.
- Press button will guide you to the next point, press "OK" button will guide you previous waypoint. Press or button to zoom in or zoom out map page.







5.2 Quit Current Route

- 1. Press the $\overline{\mathbf{A}}$ button to exit the route when you want to quit on your current route.
- 2. Press the "YES" button, the E-compass will stop the selected route.



6. Waypoint

6.1 Waypoint Saving

• If you want to record where you car is parked or an interesting place, you can perform this by following these steps.



1. Press the 🕺 button to enter "create a waypoint".



 There are a total of 10 waypoints that can be saved on this device. Press the "OK" button, this will save your selected waypoint.



7. Find a waypoint

7.1 GO TO

6.

- If you want find your parked car or interesting place, you can perform this by following these steps.
- 1. Press the th to choose the desired waypoint.



2. Press the "**OK**" BUTTON, the E-compass will guide you to your destination.

Press "OK" button will show map page.

- iii
 GOTOP

 DD1
 DELETE?

 N. 24* 53' 19:25'

 ELEV:+

 ELEV:+

 22:28

 III: 21:12AM

7.2 Deleting a Waypoint

- 1. Press the button to choose the waypoint you want to delete.
- Press "DELETE" to delete to desired waypoint, you will then be returned to the previous page.





7.3 Stop GO TO function

- If you would like to stop the go to function, 1. press the 😕 button. A window will pop up asking you if you would like to "EXIT GOTO"
- 2. Press the "YES" button.

678

DIST





8. Calibration

3. The compass will stop the trip.

If you would like to perform a compass calibration or the compass symbol is blinking, you may perform a compass calibration by following these steps:



- **OK** buttons 1. simultaneously will result in entering the calibration display.
- Follow the on screen steps to calibrate your 2. device. Rotate the device horizontally and vertically as shown to the right. When the "X, Y, and Z" icons are all lit, it means the calibration has been completed.
- Y CALIBRATING



3. After calibration has been completed a confirmation window will pop-up asking to

> confirm calibration. Please press OK to return to the previous menu screen.



9. Setting

.

• This functionality is used to personalize your settings.

Press the \bigotimes and \bigvee buttons together. This will enter the settings display, the settings display can only be opened through the Location screen or E-compass screen.

9.1 Compass Setting

• [Calibration]

1. Follow the on screen steps to calibrate the device.

• [Declination]

1. The GH-561's electronic compass indicates magnetic north. Geographic north (true north) is not exactly in the same direction. To get a more clear idea when traveling, you need to enter the declination between magnetic north and true north. By default, the value is set to 0.

You can ignore this parameter by selecting OFF. In this case, you assume that true north and magnetic north is the same thing. This can lead to significant errors of direction in some regions (near the poles).

If you select MANUAL you have to enter the declination value.



COMPASS SETTING
CALIBRATION
MANUAL
S ONCE POWER ON
AUTO
Horo

COMPASS SETTING
CALIBRATION
MANUAL
SET DECLINATION
08:20 🕥 💷



9.2 Setup Time

Use the $\overline{\diamond}$ or $\widehat{\bigcirc}$ buttons to scroll to the item and press OK to modify it.

• [TIME ZONE]

You must select your country to set up the time zone

SETUP TIME
TIME ZONE
Taipei
DAYLIGHT SAVING
NO
TIME FORMAT
24 HOUR
🚥 😧 17:13

[DAYLIGHT SAVINGS TIME]

You have to select your local time zone and enable Daylight Savings Time if necessary, so system will display the correct time for you.

[TIME FORMAT] •

You can also set the time to display the 12 Hour or 24 hour format.

8

Press the 🧐 button to exit or go back to main menu

SETUP TIME
TIME ZONE
Taipei
DAYLIGHT SAVING
NO
TIME FORMAT
24 HOUR
Ⅲ ● ④ 17:14

SETUP TIME
TIME ZONE
Taipei
DAYLIGHT SAVING NO
TIME FORMAT
24 HOUR
🎟 🕑 17:15

9.3 Display Setting

[BACKLIGHT]

Set the backlight to stay on or automatically turn off after a period of time once you press Power button to activate the backlight.



[CONTRAST]



- Use the $\overline{\diamond}$ and $\stackrel{\textcircled{}}{\checkmark}$ buttons to 1. adjust the contrast of the screen.
- 2. When the adjustments to the contrast have been made press the "OK" button to accept the adjustments.

Press 🧐 button to exit or go back



to main menu

9.4 GPS Setting

Turn on/off the "WAAS/ENGOS" feature.

Press ³ button to exit or go back to main menu.

9.5 Route Setting

Switch distance means the setting of threshold detected distance for routing navigation.

- 1. There are 25m,50m,100m,200m, 300m, 500m) for selecting. The default setting is 100m.
- 2. It is recommending to set 50m for walking, and 100m for cycling.
- 3. If the speed range is higher than the switch distance should be above 100m to get accurate navigation.

₽

Press <a>

 button to exit or go back to main menu

9.7 Set Units

The measurement unit can be set as "statute" or "metric" or "nautical".

Press ³ button to exit or go back to main menu

9.8 GPS Info

In this screen you can see the positioning status of how many satellite signals are obtained and their signal strength.

P

Press (a) button to exit or go back to main menu









9.9 Factory Reset

This feature will allow you to restore the GH-561 back to factory default settings. (Note: travel data, saved waypoints, and user profiles will be erased from the GH-561's memory).

Press ³ button to exit or go back to main menu

9.10 About

This screen displays the firmware version information.

Press ³ button to exit or go back to main menu





10. How to install PC software application

10.1 Installing the USB driver

The USB driver is required to recognize your GH-561 via USB when it is connected to your PC.

- 1. Insert the CD into the CD-ROM drive, and the Auto-run will begin.
- 2. Click on the "GS-Sport Travel Manager" to install driver to your PC.
- 3. Follow the on-screen instructions to complete the installation.
 - Step 1 : Use auto-run to install the USB driver or select the installation file from the CD-ROM



Step 2: Connect the GH-561 device to your PC and follow the instructions below circled in red.

"Please, connect your device, the "Found New Hardware Wizard" window will pop up; cancel it to ignore automatic hardware installation."





> Step 3: The USB driver installation has been accomplished.

InstallShield Wizard	
	InstallShield Wizard Complete Setup has finished installing Virtual COM Port Driver on your computer.
	Cancel

To check Computer Management_Device Manager you may see the STM Virtual COM port has been detected.

10.2 Installing the Travel Manager

- Install Framework v2.0 or above
- 1. To check the Microsoft Framework version in your system go to:

Control Panel > Add/Remove Programs

Note: Originally, the Framework version in Windows XP SP2, SP3 and Vista or above should be version 2.0.

• Installing the GS-Sport Travel Manager

Use auto-run to install GS-Sport Travel Manager or select the installation file from the CD-ROM.

Step 1: Click Setup.exe to install the travel manager.



Step 2 : Press "Next"



Step 3 : Press "Next"

GS-Sport Travel Manager		
Select Installation Folde	r	
he installer will install GS-Sport Travel M	anager to the following folder	
Foinstall in this folder, click "Next". To in		w ot click "Browse"
TO Install in this folder, click INEXC. TO IN	stali to a uliferent folder, enter it belo	WOICHCK BIOWSE.
<u>F</u> older:		
C:\Program Files\GlobalSat Technolog	y/GS-Sport Travel Manager\	B <u>r</u> owse
	(Disk Cost
Install GS-Sport Travel Manager for you	urself, or for anyone who uses this c	omputer:
◯ Just me		
		(
	Cancel < <u>B</u> ack	<u>N</u> ext>

Step 4 : Press "Next"



Step 5: Installation process.

🕼 GS-Sport Travel Manager	
Installing GS-Sport Travel Manager	
GS-Sport Travel Manager is being installed.	
Please wait	
Cancel < Back	Next >

• The software will execute and connect the database automatically.

CAWINDOWShystem32/cmd.exe	- 🗆 X
G:\Program Files∖GlobalSat Technology\GS-Sport Travel Manager≻cd mysql	<u>^</u>
C:\Program Files\GlobalSat Technology\GS-Sport Travel Manager\MySQL>cd bin	
G:\Program Files\GlobalSat Technology\GS-Sport Travel Manager\MySQL\bin>net mysql2 系統發生 1060 錯誤。	stop
指定的服務並未以已安裝的服務存在。	
C:\Program Files\GlobalSat Technology\GS-Sport Travel Manager\MySQL\bin\myss -renove mysql2 The service doesn't exist!	qld -
G:\Program Files\GlobalSat Technology\GS=Sport Travel Manager\MySQL\bin\mys t —install MySQL2 —defaults=file="C:\Program Files\GlobalSat Technology\G rt Travel Manager\MySQL\ny2.ini"	
	-

Step 6: Press "close" to enter the travel manager installation application.



Step 7: Create a user account and save it.

GS-Sport Trave	l Manager)
Usemame	GSsport	
	Save Can	cel

Step 8: After saving the program will login automatically.

🔮 GS-Sport Travel Manager 🛛 🗙 🗙							
Select Model	GH561	•	New User				
Select User	GSsport	•	Edit				
Import Data		Login	Delete				

• The process bar will detect connection via the USB cable.

🛃 GS-Sport Travel Manager Status	
Device Detection failed, Please check device for COM Pe	ort /
Baud Rate settings	Close

Step 9: Plan your route.



10.3 Running the GS-Sport Travel Manager Application

You can run the GS-Sport Travel Manager by double clicking on the "GS-Sport Travel Manager" short-cut icon from desktop. Or go to Start > All Programs > GlobalSat GS-Sport > Travel Manager.



11. PC Software Application

11.1 System Requirement

For better performance, the following system requirements are recommended for GS-Sport Travel Manager:

- CPU: Pentium III Processor or higher.
- At least 512 MB of RAM
- Windows XP or Vista
- Internet Explorer 6.0 or higher
- Framework 2.0 or higher

11.2 How to use the GS-Sport Travel Manager Software

11.2-1 Create a user name

• You should have been prompted to create a user name when you installed the software



Note: 1. You can create other user names to login and import backup database as well. 2. Please be sure that you are connected to the Internet before the software is opened.

11.2-2 Importing Data

You should export the database before you go on to import the data. Click "import data" to transmit the whole database you've exported. The new database will overwrite the old one.



Click the file you've exported (*.travelbook), The Import process will run automatically.

Open						? 🛛
Look in:	🞯 Desktop		¥ (0 1	• 🛄 🕈	
My Recent Documents	My Documen My Compute My Network Travel Manager	r	lbook			
My Documents My Computer						
	File <u>n</u> ame:	Travel Manager_DB090	817043424		*	0pen
My Network	Files of type:	TRAVEL Files (*.travelbo	ook)		~	Cancel
GS-S	port Travel	l Manager orting Database co	ompleted	. succe		×
	r	Ōĸ				

11.3 Travel Manager

11.3 – 1 Section Description

- 1. Main Function
- 2. Sub tool Bar
- 3. Google Maps, Track point data, Waypoint Data
- 4. Travel Planning
- 5. Travel database saved by calendar
- 6. Travel detail information
- 7. Travel files list
- 8. Software control Function



lcon	Icon Description			
*	Open file			
۲	Show on Google earth			
E.	Show on Google map			
6	Search			
2	Log out			
	Exit			

11.3 - 2 Software Control Function description

11.3 - 3 Menu Structure

		1
	Capture Google Map	Capture current Google Map window as JPG or BMP format
Main	Show on Google Map	Show Training data on Google Map.
	Show on Google Earth	Show Training data on Google Earth. You can see the training data which be selected on google earth.
	Export Database	Export travel information to Travelbook format.
Eller.	Open	Open file (support gpx , kml format)
Files	Save	Save file (support gpx, kml format))
Search Data	Search by Date	Search records from database by selecting "start date" and "End date"
	Route	Planning Route
Planning	Route	Upload Route
r iaining	Way Points	Planning Waypoint
	vvay Foints	Upload Waypoint
	Com port Setting	Device Com port setting
	System Information	Check the device information
Configuration	Unit Exchange	Three Unit selection(Metric, Statute and Nautical)
	Language	Six Language selection (English, Traditional Chinese, Spanish, German, Italian, French and Japanese)
	Check update	Check the latest version from
Help	About GS-Sport	GS-Sport introduction
	About US	The team information

11.4 Main menu 11.4 – 1 Capture Google Map



• Capture current Google map window and save it as JPG format

11.4 – 2 Show on Google Map

• Show the planned route on Google map directly



11.4 – 3 Show on Google Earth

• Show the planned route on Google earth directly



11.4 – 4 Export Database Export the whole database of software to "*.travelbook" file for backup. To name the database and save it.





• Database export completed successfully

11.5 File Menu

11.5 - 1 Open file

1st Step : Select the saved file and you want to put data into software. The window will show" Do you want to save this file information into database", click "OK".



2nd Step : the progressing message will be displayed on screen.

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- 1	117 896218	11407171		
1.	412 887908	14 000081		
	-117.000704	84071240	1 C C C C C C C C C C C C C C C C C C C	· · · · · · · · · · · · · · · · · · ·
	ALC DESIGN	144071811		
100	ALC TRANSPORT	14-000271		
				Tank Meridian
				Langte
				Conception (
				the of Trace Farmers
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	_		II Southeast has	
			(New York)	Pre-Park
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			innig Tradi Respect Mar Calarismi	P Billionartes
		11	and it the work of the second s	
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			10020	

3rd Step: The message: "The file has been saved into the database successfully" will pop-up.

	171474					2.4.9
and a state of the	Sec. 1	6 Mar 19 Mar				The second secon
Street, Address of	Carly .	Langiture .	Lathing			the Max for Mail The FF Ter
100 C		447 246 218	21201240			
5 1 Mark 1	1	117 102108	21947316			122222
		117 046252	01407171			
	•	-112 847908	3x 0000#1			
	*	-117.000104	84-0212-89	*		
		4117.000000	1410101			
	1	117,788013	34-004075			
	1					Teld Mandale
						100 - 200 A.M.
						heavy's Shines
						Consecutive) 4.204
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Cuttyrate						
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10					840 X8	
A MARKET IT MA			Concession in the	and the second	many Proster Ballier	Level a street

11.5 - 2 Save file

1st Step: Save the file as gpx, or kml format.



> 2nd Step: Save the file successfully.

	1000	APR. (01.161)	_						0.818
Name of Street, or other	Catho	100		100			_	(m) 1 August 11 A	
No. of Concession, Name	100	Longhule	Lateral	-				Box Wen Tox West	The Fit had
		-111 106110	Balantone					1	
Sai	1	-117 352100	seastive.	1				00 in 10	12 44
		117 898,010	21301172					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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	1°	-117 PM	14 020718						
	<u> </u>	3117.238433	.04.0000711						
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tours that									
Planning									
Callyter									
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Water of		and back here.	-	100	martine Discontinue	Ditte:	- 11	10000	O-11-0-

11.6 Search Menu

• Search the travel data by date



11.7.1 Planning Menu 11.7.1 - 1 Planning Route

In GS-Sport Travel Manager, click [Planning] > [Planning Route]

Start to plan route on map, click every points step by step. Press "End Route" stop planning route.

Or key the address / longitude & latitude or key-word to search the map



> Delete Route : Cancel the whole route you just planned

Undo Route : Cancel last of one track you just planned.

11.7.1 - 2 Upload Route to GH-561 device

1st step : Connect GH-561 to your PC with the USB cable, then the device will show "Connect To PC", please press" YES"



> 2nd Step : The device will show "Synchronize To PC " automatically.



3rd Step: On Travel Manager, click [Planning] > [Upload Route] to select the data (right bottom column) you want to transmit. When the download procedure is processing, the progressing message will be displayed on screen.

Welcome GSsport to GS-Sport	t Travel Manager - GH-561	×
Menu Bar 🛛 🕸	Google Map Way Points Track Points	Database Record
Planning Route	Hereingen Australia 3 3 Beam	・ 八月 ・ 2009 ・ 日 一 二 三 四 五 六 26 27 26 29 30 31 1 2 3 4 5 6 7 8
Planning Route Upload Route Delete all from device Way Points Add Waypoint	Hereita St. Maria Cl. 1. Hereita St. Maria St. Maria Cl. 1. Hereita St. Maria St. Maria Cl. 1. Hereita St. Maria Cl. 1. Hereita St. Maria St. Maria Cl. 1. Hereita St. Maria St.	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 10 31 1 2 3 4 5 Travel information
Upload Waypoint	GS-Sport Travel Manager Status	Distance(Km)
Main		
Files	Google 日 10 日本 10	
Search Data	Travel Planning -	
Planning	Enter Address to Center the Map Coordinates of Mous Go! Start Route Delete Route Lat = 34.012863, Lor	
Configuration	Add Weypoint Undo Route Route Distance:	
Help	4.304 km	
	🚹 🛞 🧶 ല 🎎 🛇	

4th Step: Once the data succeeded in transmitting, device will show "Route data download O.K"



5th Step: The travel manager will show" Uploading Route completed successfully"

GS-Sport	Travel Manager	x
(j)	Uploading Route completed successfully	
	OK	

11.7.1 - 3 Delete All From Device

- 1st step: Connect GH-561 to your PC with the USB cable. On Travel Manager, press [Planning] > [Delete all from device]
- 2nd Step: The window will show" are you sure you want to delete all route records from device" click yes will erase all data.

	GS-Sport Travel Manager	×
	Are you sure you want to delete all Route Records from device?	>
3 rd Step: (Once all data be deleted, the window will show as b	elow
	GS-Sport Travel Manager 🗙	
	All Routes Deleted from Device	
	QK	
4 th Step: 7	The device is clean.	
	<u>ROUTES</u>	

11.7.1 - 4 Edit Route

 \triangleright

 \triangleright

1st step: Select the data on right column and click the right button on the mouse.

02:28AM



11.7.2 Waypoint 11.7.2 – 1 Add Waypoint

In GS-Sport Travel Manager, click [Planning] > [Add Waypoint]

Click the Google map to add waypoint. Press [Add waypoint] icon on the bottom then create the waypoint.

Menu Dar	P Coughe Map New Person Track Pander	Database Record
Planning		· 八月 · · 2009 · 日 一 二 三 四 五 六
Route		28 21 28 29 34 31 1
Planning Route	2 CM CM CM	10 11 12 13 14 15
Upload Houte		10 10 19 20 21 22 23 24 25 26 27 28 29
Delete all from device		<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
Way Paird a		Travel Information
Stop Adding	📲 📲 Way Point Editor	X Date 2009-8-1
Lipload Wayport		Training File 002-Gzu Distance(Kin) 4 304
Constant (11) post	Serial No. 9	Ho, of Track Rolef(s) 7
	Location name	
	Mureta B	avel List
	Altitude	🕨 📂 001-Gssportusa
	Latitude 34.010017	- Xº 002-Ossportusa1
	Difference and a screen Art	
Main	Longitude -117.689281	
Files	Google	
1	Travel Planning Save Cance	
Search Data		
Planning	Enter Address to Center the Map Coordinates of N Go! Set Rose Delete Rose Lat = 34.017949	
A Destruction of the	Stop Adding Undo Route	
Configuration	Stop Asting Undo House Route Distance:	e
Ноф	Pour Distance.	
		()

11.7.2 – 2 Upload Waypoint to GH-561 device

1st step : Connect GH-561 to your PC with the USB cable, then the device will show "Connect To PC", please press" YES"



> 2nd Step: The device will show "Synchronize To PC " automatically.



3rd Step : On Travel Manager, select the "waypoint" bar to choose the waypoints you want to transmit. Then click the [Planning] > [Upload Waypoint] to select the waypoints you want to transmit.

2 Bire		ngie May		Trach	Points					Detabase Record			
Planning		Serial No.	Location name	lcon Index	Altitude	Latitude	Longitude	Remarks		· 八月 日 一 二	= 1	2009 五	-
Route			1	0	U	34,006335	-117.693057	The second second		25 11 24	79 21		-
Placeing Route			2	0	0	34.009519	-117.692950			2 3 4	5 8	1	
Upload Boute			3	0	0	34.013592	-117.693079			10 11	12 13		
Upmad Holde		4	4	0	0	34.013663	-117.696083			20 24 25	26 27	28	
Delete all from device		5	5	0	n	34.012898	-117.695460			30 33	2 1	-	
Way Points		б	6	0	0	34.012418	-117.694259			Travel Information			-
Stop Arking		7	7	0	U	34.011955	-117.692864			Date		2009-8	
		8	8	0	0	34.011955	-117.689431			Training File		002-Gs	-
Upload Waypoint		9	9	0	0	34.010017	-117.689201			Distance(Km)		4.304	
					🛃 03-Sport T	ravel Manager Stat	has			No. of Track Boird	8 i	7)	
2							Please Wait		-	Travel List			
Main					Uploading	4 Waypoints	_	_			-Gsspc I-Gsspc		1
Files						- D.							
Search Data	Ira	vel Plan	ning						4				
	En	ter Addr	ress to Cent	er the Map				Coordin	ates of Mous				
199.00 (0)						Go!	Start Route	Lat = 34	.018269, Lor				
Planning						Stop	Adding I	Undia Route					
Planning Configuration								Charles and the					
								Route IA	istance:				

4th Step : Once the data succeeded in transmitting, device will show "Route \triangleright data download O.K"



5th Step: The travel manager will show" Uploading Route completed \triangleright successfully"



11.7.2 – 3 Edit Waypoint 1st step :Select the waypoint click the right button on the mouse. \succ



	X	
Serial No.	1	
Location name	test1	
lcon Index	• 000	
Altitude	0	
Latitude	34.006335	
Longitude	-117.693057	
Remarks		
	Save Cancel	

> 3rd step : Edition finished

u Drer 🖓	0.0	ale Mai	The second	Ren Charles					Detabase Record
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Capiture Oocigle Mas	Ē	1.440	WSC1	0	0	34 006335	-117.693057	1052Win (12)	28 17 28 29 29 29
Show on Coogle map		2	2	0	0	34.009519	-117.692950		
		3	3	0	0	34.013592	-117.693079		10 11 12 13 14
Dave an Google Earth		4	4	0	0	34.013663	-117.696083		27 25 25 28 27 20
Export Dalabase		5	5	0	0	34.012898	-117.595460		51
		6	4	0	0	34,012416	-117.604250		Travel Information
		7	7	0	0	34 011955	-117.692864		Date 2009-8-1
		0		0	0	34.011955	-117.609431		Training File 001-Gos
		9	9	0	0	34.010017	-117.689201		Distance(Hin) 4.966 Min. of Track Reights) 10
Main									X* 001-0ssportusat ► 002-0ssportusa ► 002-0ssportusa
Search Data									
Planning	1								
Configuration	1								

11.8 Configuration Menu

11.8 – 1 Com Port Setting

• Scan COM Port" button. COM port will be automatically scanned.



11.8 – 2 System Information

• Show system information on window



11.8 – 3 Unit Exchange

• Three Unit selection(Metric, Statute and Nautical)

11.8 – 4 Language

 Six Languages, English, Traditional Chinese, Spanish, German, Italian, French and Japanese



11.9 Help Menu 11.9 – 1 Check Update

Check the latest version

11.9 – 2 About GS-Sport

Will pop up a window to show the version



11.9 – 3 About US Will connect to Globalsat website directly. The line is <u>http://www.globalsat.com.tw/eng/index.htm</u>

12. Maintenance

12.1 Take care of you GH-561

- Do not store your GH-561 in an extremely high or low temperature environment.
- Use a dampened cloth to clean your GH-561 and wipe dry. If necessary, apply mild detergent solution to the cloth. Do not use strong chemical solvents or it may damage the plastic surface.

13. Glossary

Relates to data being transmitted from GH-561. Activity is a history

or log of events. Activity data includes time or distance updates.

Activity

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Waypoint	Waypoints are sets of coordinates that identify a point in physical space. For the purposes of terrestrial navigation, these coordinates usually include longitude and latitude, and sometimes altitude (particularly for air navigation).
Trackpoint	The current moving trace.
Navigation	The act of determining the course or heading of movement.
2D Operating Mode	A "two-dimensional GPS position fix" includes only horizontal coordinates. It requires a minimum of three visible satellites.
3D Operating Mode	A "three-dimensional GPS position fix" includes horizontal coordinates, plus elevation. It requires a minimum of four visible satellites.
Weak Signal	GPS signal is weak (GPS is fixing).
Receiving	Can't find GPS (GPS turned off or broken down).
WAAS/EGNOS	Wide Area Augmentation System / European Geostationary Navigation Overlay Service. These are two satellite-based systems that can be used to increase the accuracy of GPS position fixes.
IPX4	The IPX4 waterproof standard is for device to protect against splashing water without any adverse operational effects.
GMT	Greenwich Mean Time (GMT) is a term originally referring to mean solar time at the Royal Observatory, Greenwich in England. It is now often used to refer to Coordinated Universal Time (UTC) when this is viewed as a time zone, although strictly UTC is an atomic time scale which only approximates GMT in the old sense. It is also used to refer to Universal Time (UT), which is the astronomical concept that directly replaced the original GMT.

FCC Notices

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.

FCC RF Exposure requirements:

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

14. Troubleshooting & FAQ

1. Why does it show "PC com port error" when I download data?

Solution:

- (1). Please check if the USB driver is installed or not.
- (2). Connect GH-561 to your PC with the USB cable.
- (3). Double click the "GH561 GS-Sport Travel Manager" icon from desktop to start the application.
- (4). From Configuration bar click "Com Port Setting", and click "Scan " button. The COM port will be automatically scanned.

2. How do I keep my database when upgrade GS-Sport Travel Manager with new version?

Solution:

(1) Select [Main]-> [Export Database] to export database to route where you want to save.

(2) Uninstall and re-install the later software.

(3). Select [import data] from Login menu to import database.

3. What kind of files format does GS-Sport Travel Manager support?

Solution:

GS-Sport Travel Manager supports standard GPX (<u>GPS Exchange Format</u>) and KML (Google Earth Format).

4. Why can I export data to Google Earth, but can't export data to Google Earth Pro?

Solution:

Since the installed directory are different between Google Earth and Google Earth Pro, sometimes you can't wake up it directly by click on GS-Sport Travel Manager Software; you have to follow the bellowing procedure to wake up it:

(1). If GS-Sport Travel Manager can't show the map to the Google Earth or Google Earth Pro, the pop-up message will ask you if want to modify the directory or not.

(2). To find the directory of Google Earth or Google Earth Pro you installed, choose the googleearth.exe then click OPEN to finish.

(3). Finally, the Google Earth or Google Earth Pro could be opened.

5. How can I uninstall GS-Sport Travel Manager?

Solution:

 Use uninstall function from Windows menu: Start > Programs > Globalsat GS-Sport > Uninstall GS-Sport Travel Manager
 Use add/remove program from Windows control panel: Start > Setting > Control panel > Add/Remove program, search for GS-Sport Travel Manager and uninstall.

6. Why I installed the GS-Sport Travel Manager, but pop-up message shows "the service is not ready"?

Solution:

- (1). Please reopen the software and the database will active automatically.
- (2) Please confirm that the firmware 2.0 or late has been installed.

7. Why do I feel the guiding of GH-561 not as expected?

Solution: (1). Please make sure is there any magnetic interference close to device

- (2). Please follow the instruction of user manual to calibrate compass
- (3). The poor reception from GPS signal will effect performance as well, Please toward to sky to keep good signal.

8. Why can't my GH-561 communicate with PC?

Solution:

(1). Please make sure that you have installed STM32 USB driver.

(2). Please make sure the com port has been set correctly

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