

G - Trender

WSG-1000

USER'S MANUAL



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Part 1 Features

WSG-1000 is a multi-functional GPS receiver for outdoor activities (hereinafter " WSG-1000"). It integrates high sensitivity GPS receiver, Bluetooth, Altimeter, Barometer, Thermometer, Electronic Compass, also provides not only a large LCD display showing various instant information but also the data logger supporting the off-line tracking acting like the in-flight black box. The various features of the WSG-1000 make it the best companion for sport and recreation.

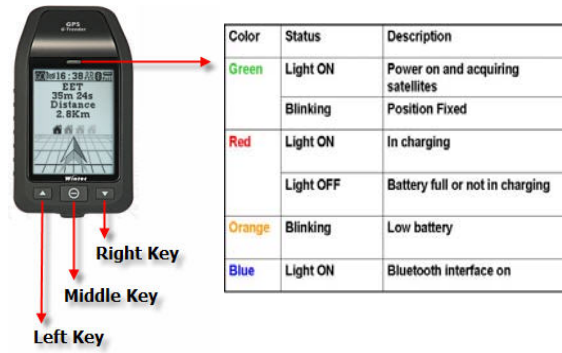
- WSG-1000 built-in u-blox GPS IC ATR0625.
- Maximum 16 channels can be acquisitioned quickly.
- Internal SBAS decoder is built-in, so the SBAS signals could be received without any extra hardware.
- Support NMEA 0183 v2.3 data output.
- Waterproof - ideal for outdoor activities.
- Flexible design aimed for Automotive/Marine/personal Navigation, Fleet management, AVL, Tracking and topography purpose.
- Altimeter, Thermograph, Barometer are supported.
- Electronic compass is supported.
- Support Track Back Navigation, Calendar, Astronomy Information, Journey Data, My Training, Track Data.
- Bluetooth integrated, the transmission range is 10 meters.
- **(Option)**
- Integrate TimeMachine X for downloading log data, editing the spots (for Track Back Navigation), setting device.....etc.
- Continual work for about 20 hours in Pure Log Mode.
- It recorded in a rotational order. The earliest (oldest) data will replaced by the latest (newest) one when memory space is full.

Part 2 Safety Notes

- The Global Positioning System (GPS) is operated by the United States government. Its accuracy may varies depending on special conditions (area at war or if it is blocked). Any control by USA will affect this system and its accuracy.
- For traffic safety, we strongly suggest that you don't operate the controls of the WSG-1000 while you are riding or driving.
- GPS performance is affected when satellite coverage is degraded as near a high-building, in the tunnel or under a cover.
- Personal replacement of components and re-structuring of this is prohibited and may result in loss of legal usage.
- Operation of this device is strictly prohibited in highly explosive environment such mining, in-flight or other unauthorized area against use of this.
- Do not store the WSG-1000 where prolonged exposure to temperature and humidity extremes may occur as permanent damage may result.
- Return to original dealer immediately if it emits strange smell or fume.
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Part 3 Unit Overview












Part 4 System Guide








Setting Mode : Set items of Language, Log Mode, LCD Contrast, Backlight, Unit, Factory Reset, GPS Datum and Speed Warning.



Switch Mode : Switch on/off following items, including Power, Bluetooth, Logger, Buzzer, Auto Power Save and Pure Log Mode.







Main Mode : Provide below functions, including Calendar, Rover, GPS(Satellite), Electronic Compass, Altimeter, Astronomy, Navigation, My Training, System Information and Page List.


Menu Structure

Setting Mode	System Menu 	Language	[Chinese] [English]
	Log Mode Menu 	Log Mode	[User Mode] [Walk Mode] [Bike Mode] [Motor Mode]
	Contrast Menu 	Contrast Adjustment	
	Back Light Menu 	Time	[Always On] [Always Off] [5 Sec.] [10Sec.] [15Sec.] [30Sec.] [45Sec.]
		Period	[0~255Min.]
	Unit Menu 	Length/Distance	[Metric] [Imperial]
		Temperature	[Celsius] [Fahrenheit]
	Factory Reset Menu 	Back to factory default	
	GPS Datum Menu 	GPS Datum	[Select the GPS Datum WGS84, WGS72.....]
	Warning Menu 	Max. Speed	[0:10:20:30:.....1000 km/hour]
	Return to the Main Mode 	Return to the Main Mode	

Switch Mode	Power Menu 	[Off] The device would be power on by pressing and holding the middle button when it is power off.
	Bluetooth Menu 	[Enable] [Disable] (Bluetooth function is optional.)
	Logger Menu 	[Enable] [Disable]
	Buzzer Menu 	[Enable] [Disable]
	Auto Power Save Menu 	[Enable] [Disable]
	Pure Log Mode Menu 	[Enter]
	Return to the Main Mode 	Return to the Main Mode







Main Mode	Calendar Page 	Monthly Calendar Perpetual Calendar Time Zone Setting
	Rover Page 	Rotational Information Display Speed 、 Distance 、 Total Time Display Speed 、 Course 、 Altimeter Display Speed 、 Max. Speed 、 Max. Height Display Speed 、 Temperature 、 Time Display Speed 、 Move Time 、 Stop Time Display Speed 、 Average Speed 、 Height Rise Display Reset the Speed and Journey

	Satellite Page 	Sky View GPS Signal Status GPS Information GPS Cold Start and Hot Start
	Compass Page 	Compass Indicator (by Heading Mode) GPS Direction Indicator (by Direction Mode) The Intensity of Magnetic Field & Compass Calibration.
	Altimeter Page 	Current Altitude 、 Pressure 、 Temperature The Diagram of Previous Altitude Data The Diagram of Previous Pressure Data The Diagram of Previous Temperature Data Altimeter Calibration
	Astronomy Page 	Sunrise Time 、 Sunset Time 、 Sun Azimuth and Elevation The Dynamic Indicator of Direction of the Sun Monthly Phase of the Moon
	Navigation Page 	Real Time Spot (Mark) Navigator Real Time Spot (Mark) Information Spot (Mark) operation menu
	Training Page 	Five Training Status Distance Training Time Training Average Speed Training

		Max. Speed Training Max. Height Training Set Distance Objective Set Time Objective Set Average Speed Objective Set Max. Speed Objective Set Max. Height Objective
	Information Page 	Logger Recorded Information Device Information Journey Previous Data
	Page List <input checked="" type="checkbox"/>	Enter Page List to Enable or Disable above pages Enable or Disable the Calendar Page Enable or Disable the Rover Page Enable or Disable the Satellite Page Enable or Disable the Compass Page Enable or Disable the Altimeter Page Enable or Disable the Astronomy Page Enable or Disable the Navigation Page Enable or Disable the Training Page Enable or Disable the Information Page

Part 5 User's guide

Button Instruction

-  Press the left key
-  Press the middle key
-  Press the right key
-  Press and hold the left key
-  Press and hold the middle key
-  Press and hold the right key


Illustration



In the status bar:

1. The page number and index.
2. The icon of the page.
3. Time.
4. GPS positioning status
5. The indicator of Logger and Bluetooth (Bluetooth is Optional.)
6. Battery indicator.


Enter the Setting Mode :


Press and hold the left button anytime .

Enter Switch Mode :


Press and hold the middle button anytime .

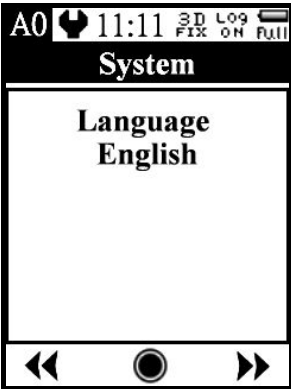
Back to Main Mode : Press and hold the right button







anytime . (The system will auto-return to the Main Mode without any operation in 5 seconds unless and until it is in the Main Mode.)

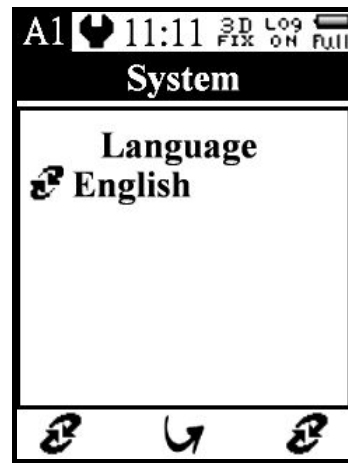
Start a new log (track) or Push To Log :  Press and hold the right button when the WSG-1000 stays in each main index (A0, B0, C0, D0, E0, F0, G0, H0, I0, J0) in the Main Mode for entering "Push To Log" and "Start New Log".







Setting Mode:

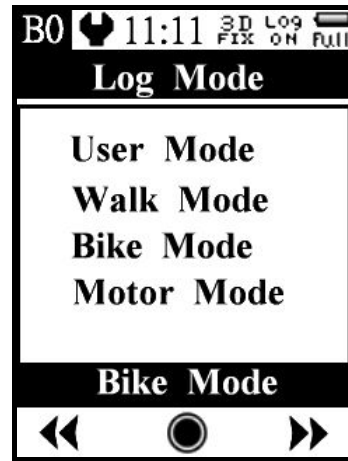
INDEX : A0 
System Menu










 Switch to last index	 Enter submenu A1	 Switch to next index
 Stay Setting Mode A0	 Enter Power Off Page	 Return to Main Mode



 Change Language	 Return to Setting Mode A0	 Change Language
 Enter Setting Mode A0	 Enter Power Off Page	 Return to Main Mode









 Switch to last index	 Enter submenu B1	 Switch to next index
 Stay Setting Mode B0	 Enter Power Off Page	 Return to Main Mode

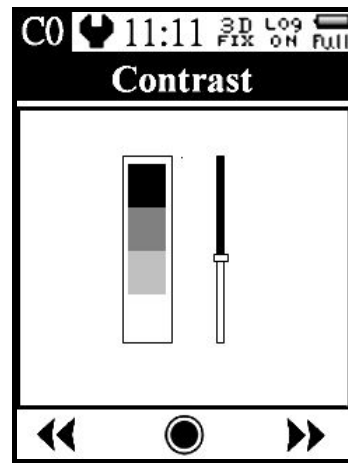
INDEX : B1 







Log Mode Menu : [User Mode] [Walk Mode] [Bike Mode]
[Motor Mode]




About "User Mode",
you can change some
setting to fulfill your
need by
TimeMachineX.
PS. Before setting,
you have to install
TimeMachineX and
connect with it.

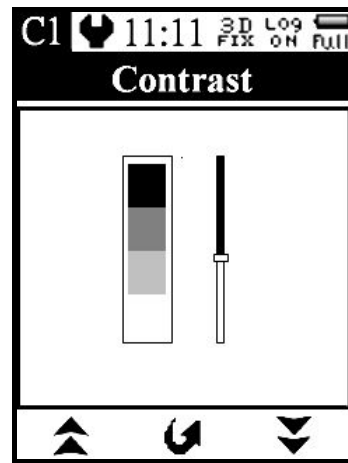
 Cycle through log modes	 Return to Setting Mode B0	 Cycle through log modes
 Enter Setting Mode B0	 Enter Power Off Page	 Return to Main Mode









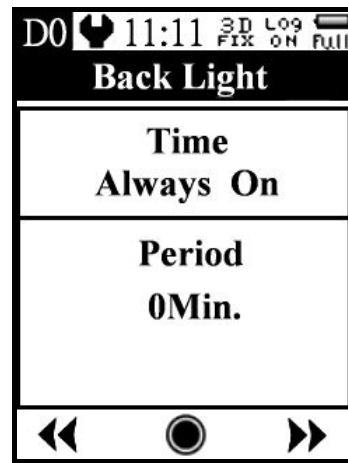
 Switch to last index	 Enter submenu C1	 Switch to next index
 Stay Setting Mode C0	 Enter Power Off Page	 Return to Main Mode







INDEX : C1 


Contrast Menu : **Enter for adjusting the contrast status**



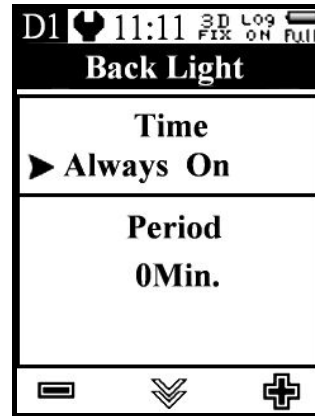
 Adjust to darker contrast	 Return to Setting Mode C0	 Adjust to lighter contrast
 Enter Setting Mode C0	 Enter Power Off Page	 Return to Main Mode









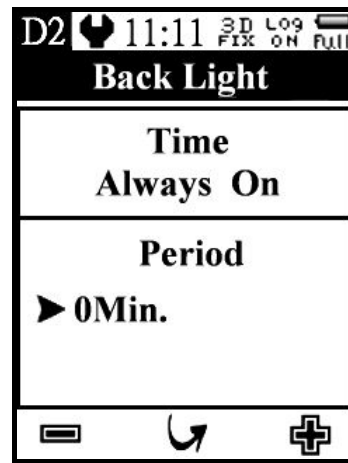
 Switch to last index	 Enter submenu D1	 Switch to next index
 Stay Setting Mode D0	 Enter Power Off Page	 Return to Main Mode







INDEX : D1 

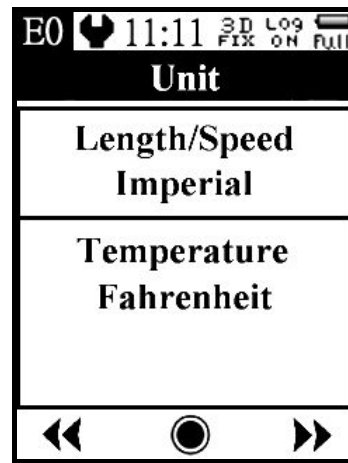
Back Light Menu : Time : [Always On] [Always Off] [5 sec.]
[10 sec.] [15 sec.] [30 sec.] [45 sec.]










 Cycle through Time items	 Enter submenu D2	 Cycle through Time items
 Enter Setting Mode D0	 Enter Power Off Page	 Return to Main Mode



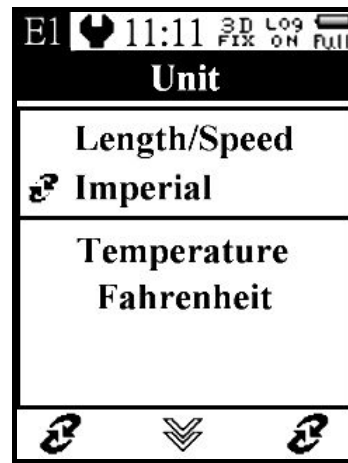
 Cycle through Period Value	 Return to Setting Mode D0	 Cycle through Period Value
 Enter Setting Mode D0	 Enter Power Off Page	 Return to Main Mode










 Switch to last index	 Enter submenu E1	 Switch to next index
 Stay Setting Mode E0	 Enter Power Off Page	 Return to Main Mode

INDEX : E1 

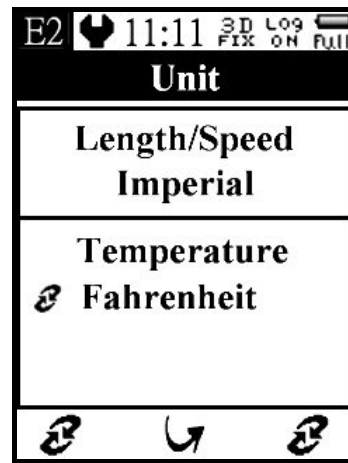
Unit Menu : Length/Speed : [Metric][Imperial]









 Select the unit	 Enter submenu E2	 Select the unit
 Enter Setting Mode E0	 Enter Power Off Page	 Return to Main Mode







INDEX : [E2](#) 

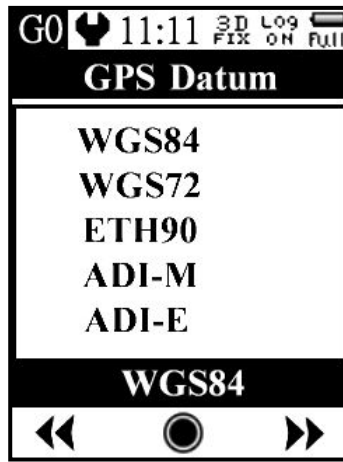
Unit Menu : **Temperature** : [\[Celsius\]](#) [\[Fahrenheit\]](#)









 Change the unit of temperature	 Enter Setting Mode E0	 Change the unit of temperature
 Enter Setting Mode E0	 Enter Power Off Page	 Return to Main Mode

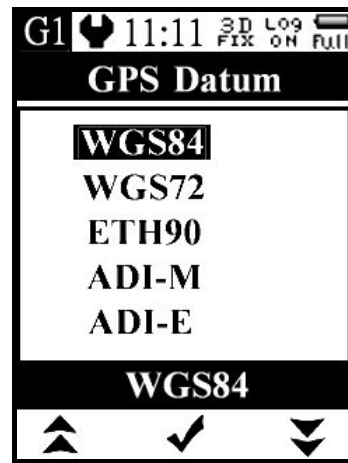








 Switch to last index	 Execute the Factory Reset	 Switch to next index
 Stay Setting Mode F0	 Enter Power Off Page	 Return to Main Mode

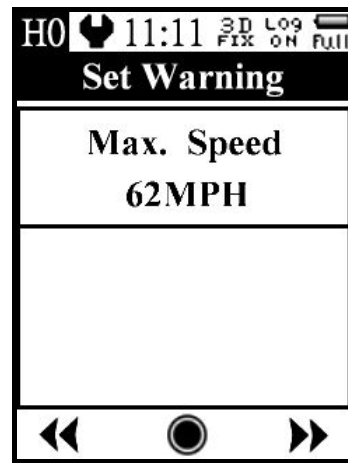








GPS Datum : The different GPS Datum will lead to different GPS output signals. You can select one which is compatible with your navigation software.


 Switch to last index	 Enter submenu G1	 Switch to next index
 Stay Setting Mode G0	 Enter Power Off Page	 Return to Main Mode



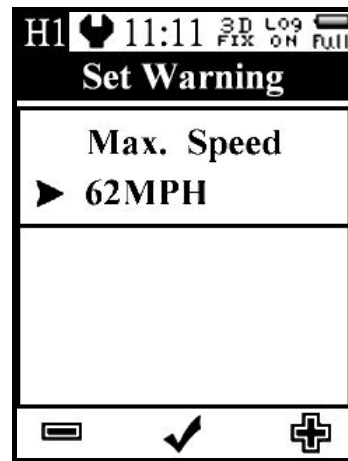
 <p>Cycle through the datum items</p>	 <p>Enter Setting Mode G0</p>	 <p>Cycle through the datum items</p>
 <p>Enter Setting Mode G0</p>	 <p>Enter Power Off Page</p>	 <p>Return to Main Mode</p>









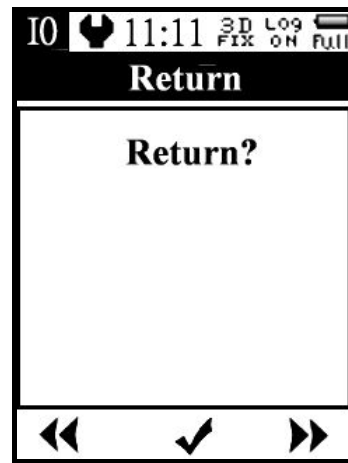
 Switch to last index	 Enter submenu H1	 Switch to next index
 Stay Setting Mode H0	 Enter Power Off Page	 Return to Main Mode







INDEX : H1 

Set Warning : **Max. Speed** : [0:10:20:30:.....1000 KMH] or
[0:6:12:18:.....621 MPH]



 Cycle through the value of speed	 Enter Setting Mode H0	 Cycle through the value of speed
 Enter Setting Mode H0	 Enter Power Off Page	 Return to Main Mode

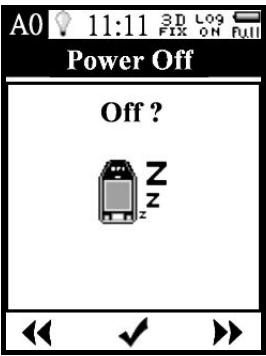








 Switch to last index	 Return to Main Mode	 Switch to next index
 Stay Setting Mode I0	 Enter Power Off Page	 Return to Main Mode

Switch Mode:

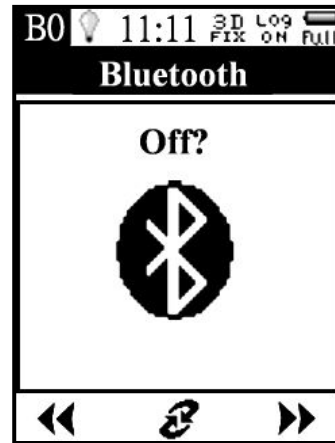
INDEX : A0

Power Off Menu









 Switch to last index	 Execute Power Off	 Switch to next index
 Enter Setting Mode	 Enter Power Off Menu (A0)	 Return to Main Mode

Bluetooth Menu









P.S Bluetooth function
is optional.


 Switch to last index	 Enable or Disable Bluetooth	 Switch to next index
 Enter Setting Mode	 Enter Power Off Menu (A0)	 Return to Main Mode

Logger Menu

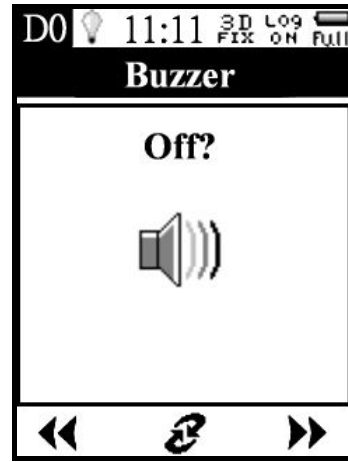




















P.S Press and hold the right button under the Main Mode pages (A0 、 B0 、 C0....) can enter the menu for "Push To Log" or "Start New Log", unless you don't enable the Logger function.

 <p>Switch to last index</p>	 <p>Enable or Disable Logger</p>	 <p>Switch to next index</p>
 <p>Enter Setting Mode</p>	 <p>Enter Power Off Menu (A0)</p>	 <p>Return to Main Mode</p>

INDEX : D0 

Buzzer Menu









   Switch to last index	   Enable or Disable Buzzer	   Switch to next index
   Enter Setting Mode	   Enter Power Off Menu (A0)	   Return to Main Mode

Auto Power Save Menu









Auto Power Save :
When the "Auto Power Save" function be enabled, the WSG-1000 will enter "Pure Log Mode" i.e. the LCD display will be shut off for power saving, but the record and logger functions will be operated as usual after 60 seconds without any button push.


 Switch to last index	 "Auto Power Save" On or Off	 Switch to next index
 Enter Setting Mode	 Enter Power Off Menu (A0)	 Return to Main Mode

Pure Log Mode Menu

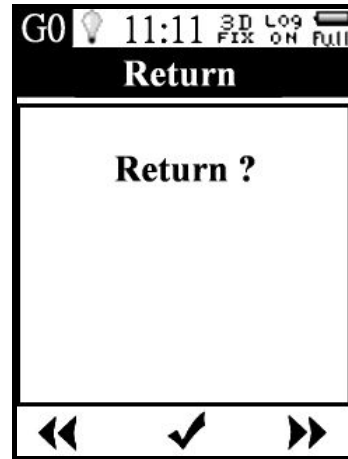














Pure Log Mode :
When you enter Pure Log Mode, the LCD display will be shut off for power saving, but all record and logger functions will be operated as usual.

 <p>Switch to last index</p>	 <p>Enter Pure Log Mode</p>	 <p>Switch to next index</p>
 <p>Enter Setting Mode</p>	 <p>Enter Power Off Menu (A0)</p>	 <p>Return to Main Mode</p>


INDEX : [G0](#) 

Return (Application Mode) Menu









  Switch to last index	  Return to Main Mode	  Switch to next index
  Enter Setting Mode	  Enter Power Off Menu (A0)	  Return to Main Mode


Main Mode:

INDEX : A0 

Calendar Page : The calendar for this month









 Switch to last index	 Enter Main Mode A1	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Enter the menu for "Push To Log" and "Start New Log" under the logger function enable.

INDEX : [A1](#) 

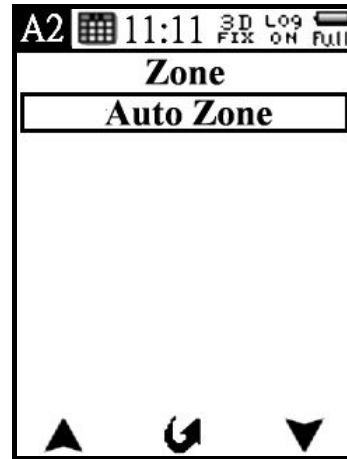
Calendar Page : [Refer to Perpetual Calendar](#)















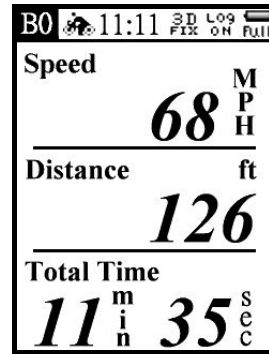
 Go to last month	 Enter submenu A2	 Go to next month
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode A0







INDEX : [A2](#) 

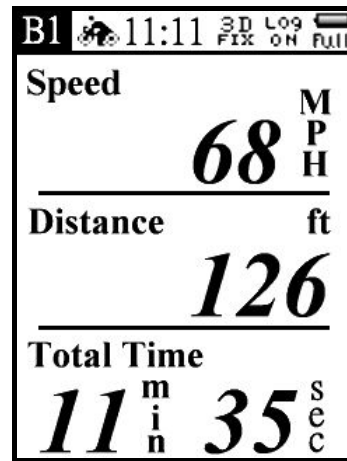
Calendar Page : [Time Zone Setting](#)









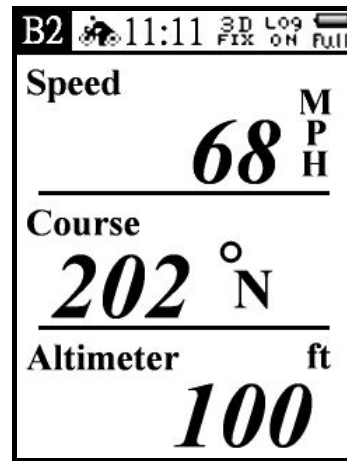
  Cycle through Time Zone	  Return Main Mode A0	  Cycle through Time Zone
  Enter Setting Mode	  Enter Power Off Page	  Return to Main Mode A0









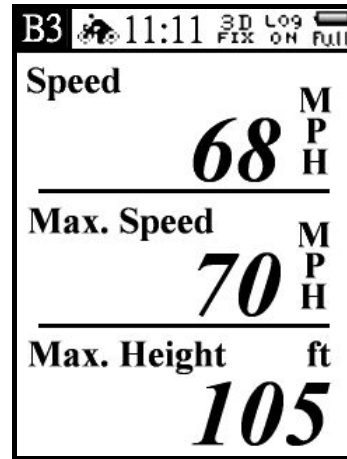
 Switch to last index	 Enter submenu B1	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Enter the menu for "Push To Log" and "Start New Log" under the logger function enable.









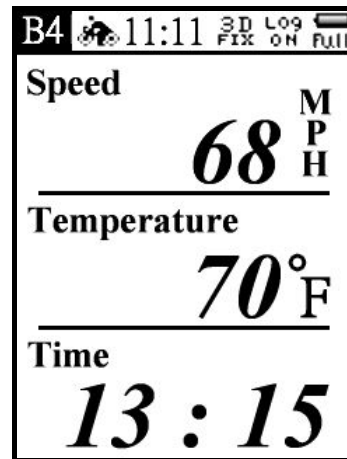
 Switch to last index	 Enter submenu B2	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode B0









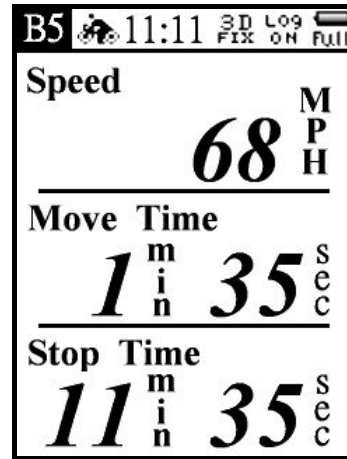
 Switch to last index	 Enter submenu B3	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode B0









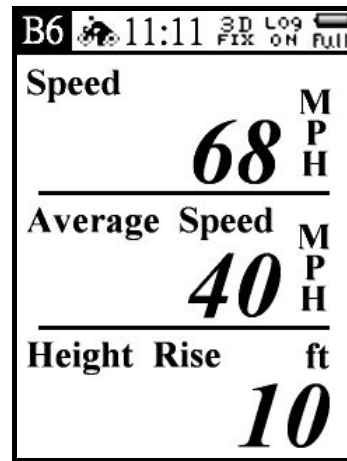
 Switch to last index	 Enter submenu B4	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode B0









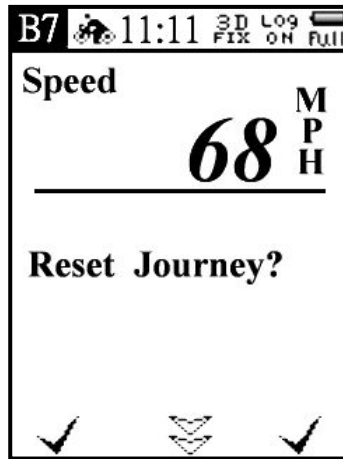
 Switch to last index	 Enter submenu B5	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode B0















 Switch to last index	 Enter submenu B6	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode B0




 Switch to last index	 Enter submenu B7	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode B0

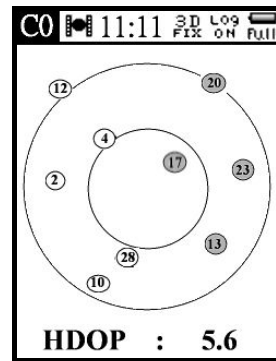








P.S. When you execute "reset Journey" (it just clear the current recorded data i.e. index B0~B7), the system will auto-save the journey date and you can find it out in INDEX I2. Furthermore, the system will start to record a new journey if the WSG-1000 is position fixed at that time.


  Reset Journey	  Return to Main Mode B0	  Reset Journey
  Enter Setting Mode	  Enter Power Off Page	  Return to Main Mode B0

INDEX : C0 

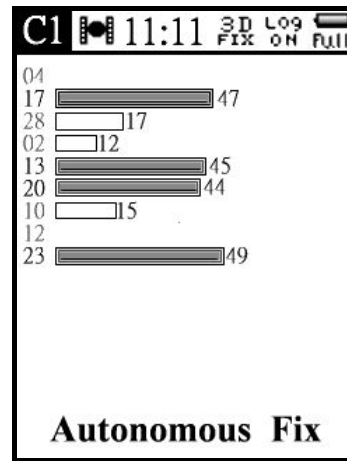
GPS Satellite Page : Satellite Sky View










 Switch to last index	 Enter submenu C1	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Enter the menu for "Push To Log" and "Start New Log" under the logger function enable

INDEX : C1 


GPS Satellite Page : GPS Signal Status









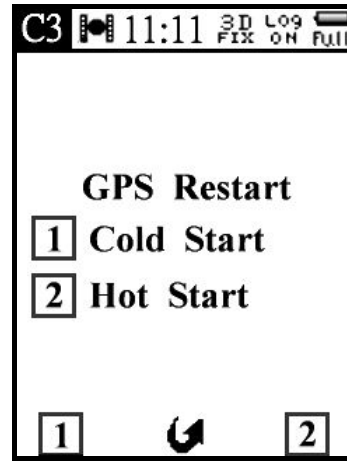
 Switch to last index	 Enter to submenu C1	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode C0







INDEX : C2 


GPS Satellite Page : **GPS Information**

C2 	11:11	3D LOG FIX ON FULL
Time	15 : 12 : 58	
GPS	3D Fix	
SV	4 / 9	
Lat .	N 24 . 99901	
Lon .	E 121 . 47088	
Alt .	380 . 5 ft	
Speed	20 Km/h	
Heading	093°	

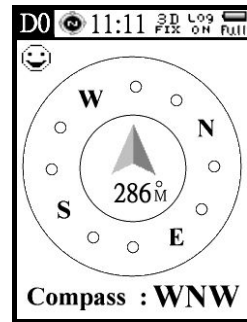
 Switch to last index	 Enter to submenu C2	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode C0










 Execute Cold Start	 Return to Main Mode C0	 Execute Hot Start
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode C0

INDEX : **D0** 

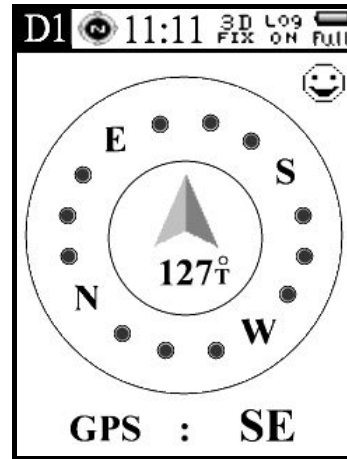
Compass Page : **Electronic Compass Indicator (By Heading Mode)**









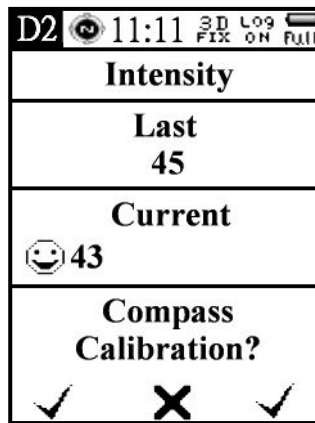
 Switch to last index	 Enter submenu D1	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Enter the menu for "Push To Log" and "Start New Log" under the logger function enable

INDEX : D1 







Compass Page : GPS Direction Indicator (By Direction Mode)




 Switch to last index	 Enter submenu D2	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode D0

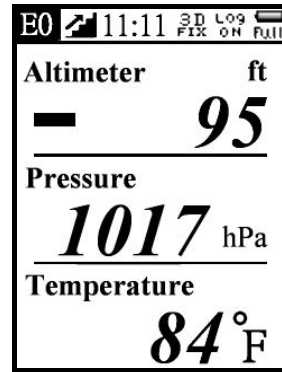














Last (magnetic field intensity) : It is the data for last compass calibration.
 Current (magnetic field intensity) : It is the current data for compass calibration.
 P.S. The Compass Calibration is suggested when the current data is better (the lower value is the higher accuracy is).
 The default value is 65534, it will show up before any calibration.)


 Execute Compass Calibration	 Return Main Mode D0	 Execute Compass Calibration
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode D0

INDEX : E0 

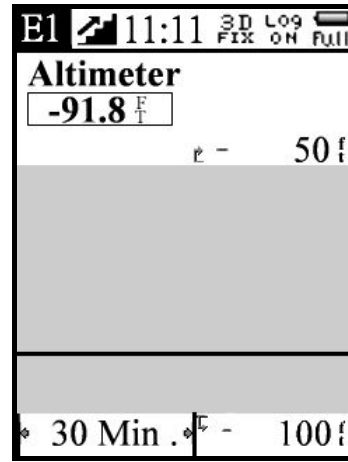
Altimeter Page : **Current Altimeter** · **Pressure** · **Temperature**









  Switch to last index	  Enter submenu E1	  Switch to next index
  Enter Setting Mode	  Enter Power Off Page	  Enter the menu for "Push To Log" and "Start New Log" under the logger function enable

INDEX : E1 

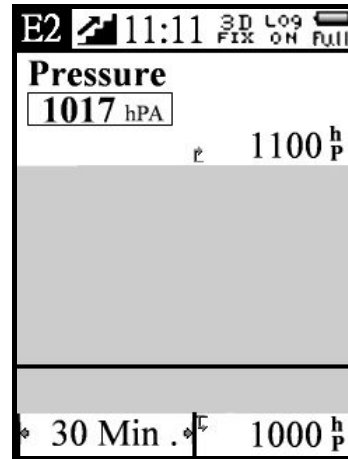
Altimeter Page : The Diagram of Previous Altitude Data










 Switch to last index	 Enter submenu E2	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode E0

INDEX : E2 

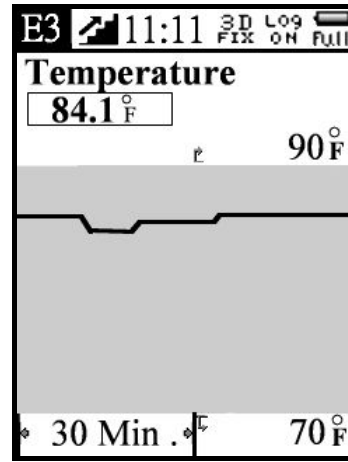
Altimeter Page : The Diagram of Previous Pressure Data









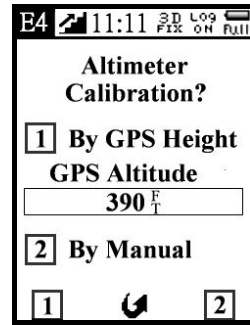
 Switch to last index	 Enter submenu E3	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode E0







INDEX : E3 

Altimeter Page : The Diagram of Previous Temperature Data




 Switch to last index	 Enter submenu E2	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode E0



 Calibrate by the data of the current GPS height	 Return to E0	 Calibrate by manual. The value can be set by hundred, ten and unit. P.S. Unless you know the current exact height, otherwise we don't suggest that calibrate manually.
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode E0

INDEX : [F0](#) 

Astronomy Page : [Sunrise Time](#) 、 [Sunset Time](#) 、 [Sun Azimuth](#) and [Elevation](#).

F0  11:11 3D LOG FIX ON FULL	
Sunrise	Sunset
06 : 39	17 : 16
Daylight Time	
10 : 37	
Sun Azimuth	
S S E -164°	
Sun Elevation	
040°	







Sunrise : The time of today's sunrise.

Sunset : The time of today's sunset

Daylight Time : The time from today's sunrise to sunset.

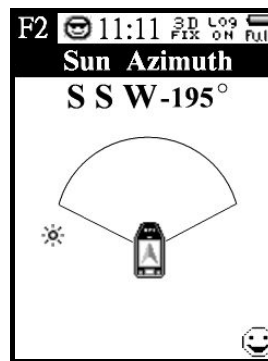
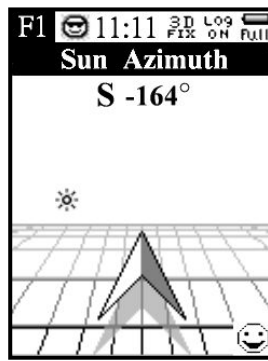
Sun Azimuth : Locating the relative heading of the sun from you.







Sun Elevation : The angle of elevation of the sun from you.

 Switch to last index	 Enter submenu A1	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Enter the menu for "Push To Log" and "Start New Log" under the logger function enable

INDEX : F1F2 

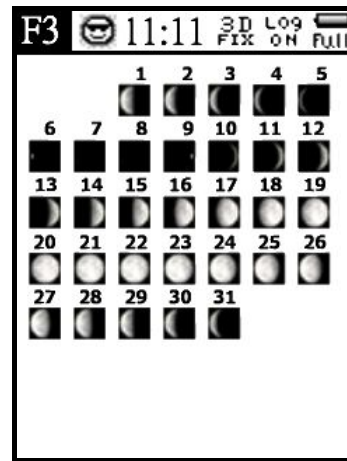
Astronomy Page : The Dynamic Indicator of Direction of the Sun









 Switch to last index	 Enter submenu F3	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode F0

INDEX : F3 

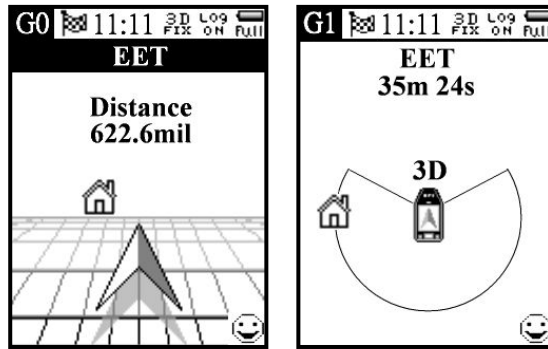
Astronomy Page : Monthly Phase of the Moon









 Switch to last index	 Return to Main Mode F0	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to Main Mode F0

INDEX : [G0G1](#) 

Navigation Page : **Real Time Spot (Mark) Navigation**



 Switch to last index	 Enter submenu G2	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Enter the menu for "Push To Log" and "Start New Log" under the logger function enable

INDEX : [G2](#) 

Navigation Page : [Real Time Spot Information](#)







G2  11:11 3D LOG
FIX ON Full

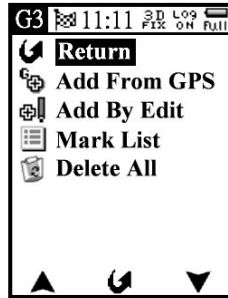
 **071231-1506**
On Front

Course
S -164°







Distance
2.8 Km

EET
35m 24s

 Switch to last index	 Enter submenu G3	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to G0 or G1









Regarding adding a spot (mark), not only adding by the device itself (by current GPS datum or manually) but also importing by TimeMacine X. P.S. Please be aware that if you want to keep the existing spots (marks), you have to export all spots to TimeMachine X from the device(WSG-1000) first, edit the additional spot and then import back to the device, otherwise the existing spots will be replaced.

 <p>Cycle through the menu</p>	 <ol style="list-style-type: none"> 1. Return to G0 or G1 2. Add a spot (mark) by current GPS datum 3. Add a spot (mark) manually 4. Enter Mark List 5. Delete all spots (marks) 	 <p>Cycle through the menu</p>
 <p>Enter Setting Mode</p>	 <p>Enter Power Off Page</p>	 <p>Return to G0 or G1</p>

INDEX : [H0](#) 

Training Page : [Five Training Statuses](#)









 Switch to last index	 Enter submenu H1	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Enter the menu for "Push To Log" and "Start New Log" under the logger function enable

INDEX : H1 

Training Page : Distance Training










 Switch to last index	 Enter submenu H2	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to H0

INDEX : [H2](#) 

Training Page : [Time Training](#)



 Switch to last index	 Enter submenu H3	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to H0

INDEX : H3 







Training Page : Average Speed Training

H3  11:11 3D LOG
FIX ON FULL

My Training
Average Speed







 4 MPH
 12 MPH

 Switch to last index	 Enter submenu H4	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to H0

INDEX : H4 

Training Page : Max. Speed Training









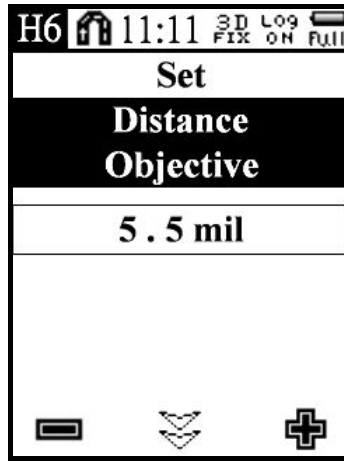
 Switch to last index	 Enter submenu H5	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to H0







INDEX : H5 

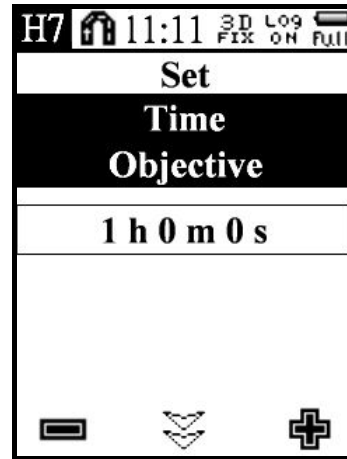
Training Page : Max. Height Training









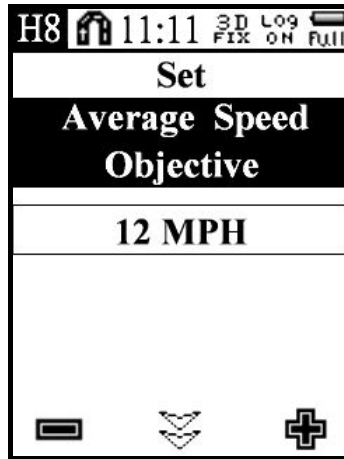
 Switch to last index	 Enter submenu H6	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to H0









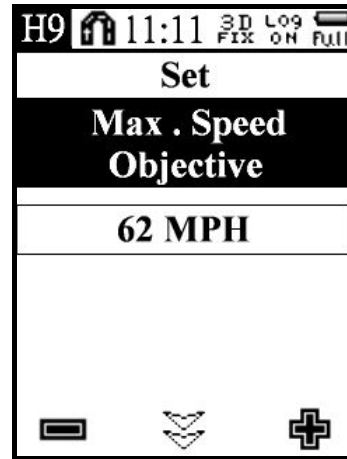
 Adjust (decrease) Distance	 Enter submenu H7	 Adjust (increase) Distance
 Enter Setting Mode	 Enter Power Off Page	 Return to H0









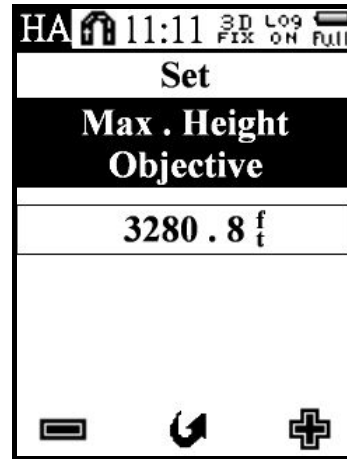
 Adjust (decrease) Time	 Enter submenu H8	 Adjust (increase) Time
 Enter Setting Mode	 Enter Power Off Page	 Return to H0
















 Adjust (decrease) Average Speed	 Enter submenu H9	 Adjust (increase) Average Speed
 Enter Setting Mode	 Enter Power Off Page	 Return to H0


















 <p>Adjust (decrease) Max. Speed</p>	 <p>Enter submenu HA</p>	 <p>Adjust (increase) Max. Speed</p>
 <p>Enter Setting Mode</p>	 <p>Enter Power Off Page</p>	 <p>Return to H0</p>



  <p>Adjust (decrease) Max. Height</p>	  <p>Return to H0</p>	  <p>Adjust (increase) Max. Height</p>
  <p>Enter Setting Mode</p>	  <p>Enter Power Off Page</p>	  <p>Return to H0</p>

I0  11:11 3D LOG FIX ON FULL
Logger Recorded
Record / Capacity
4090 / 78592
Percentage
5.204 %
Tracks
5
Push To Log
8

 S  Switch to last index	 S  Enter submenu I1	 S  Switch to next index
 L  Enter Setting Mode	 L  Enter Power Off Page	 L  Enter the menu for "Push To Log" and "Start New Log" under the logger function enable

I1  11:11  LOG 

3D
FIX ON FULL

F / W Version













Jan 7 2008
15 : 43 : 14
V . 0 . 0 . 3 . G


Device Name

WSG1000













Log Mode





User Mode
Running













  Switch to last index	  Return to I0	  Switch to next index
  Enter Setting Mode	  Enter Power Off Page	  Return to I0

I2		11:11	3D LOG FIX ON FULL
Journey Info			
	Return		
08 / 01 / 24 08 : 05			
08 / 01 / 23 22 : 21			
	NULL		
	NULL		
	NULL		
	NULL		
			

P.S The time shown on this page is the initial position fixed time of this journey.

  Cycle through items	  1. Return to I0 2. Enter submenu I3 for Journey Data.	  Cycle through items
  Enter Setting Mode	  Enter Power Off Page	  Return to I0







I3		11:11	3D LOG FIX ON FULL
Journey Info			
Start Time			
08 / 01 / 23 22 : 21			
End Time			
08 / 01 / 23 23 : 21			
Total Time			
1 h 0 m			
  			

  Cycle through data items	  Return to I2	  Cycle through data items
  Enter Setting Mode	  Enter Power Off Page	  Return to I0

INDEX : J9 ☒

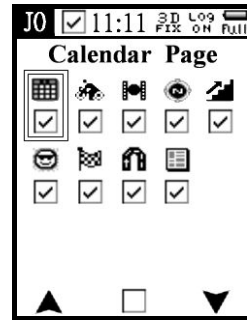
Page List : **Enable or Disable the Main Mode Functions**
(above pages).









 Switch to last index	 Enter for enabling or disabling main mode functions	 Switch to next index
 Enter Setting Mode	 Enter Power Off Page	 Return to J9

INDEX : J0 ☒

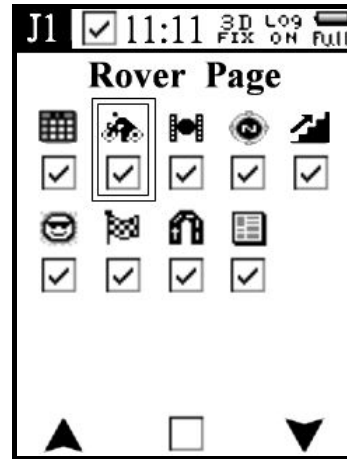
Page List : **Enable or Disable the Calendar Page**









 Cycle through page items.	 Enable or Disable	 Cycle through page items.
 Enter Setting Mode	 Enter Power Off Page	 Enter the menu for "Push To Log" and "Start New Log" under the logger function enable

INDEX : J1 ☒

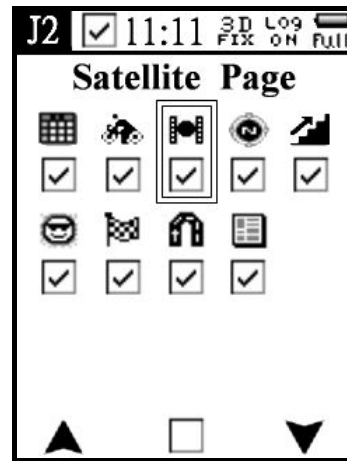
Page List : **Enable or Disable the Rover Page**









 Cycle through page items.	 Enable or Disable	 Cycle through page items.
 Enter Setting Mode	 Enter Switch Mode	 Return to J9

INDEX : J2 ☒

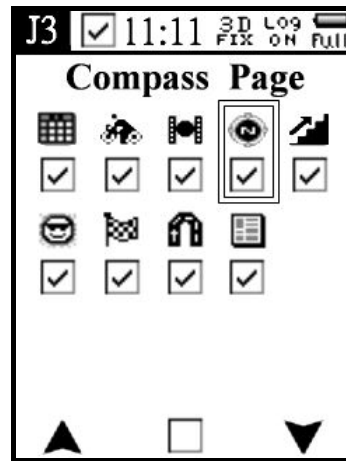
Page List : **Enable or Disable the Satellite Page**









 Cycle through page items.	 Enable or Disable	 Cycle through page items.
 Enter Setting Mode	 Enter Power Off Page	 Return to J9

INDEX : J3 ☒

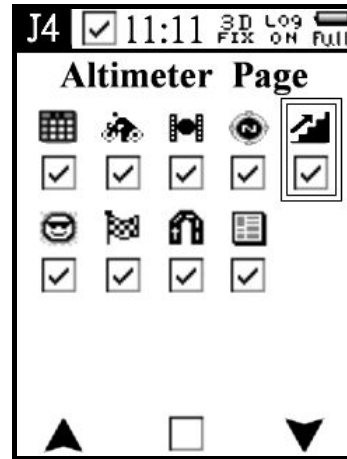
Page List : **Enable or Disable the Compass Page**









 Cycle through page items.	 Enable or Disable	 Cycle through page items.
 Enter Setting Mode	 Enter Power Off Page	 Return to J9

INDEX : J4 ☒

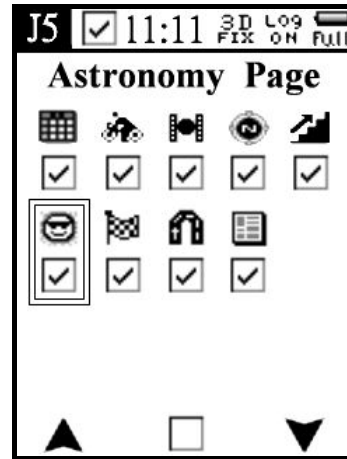
Page List : **Enable or Disable the Altimeter Page**









 Cycle through page items.	 Enable or Disable	 Cycle through page items.
 Enter Setting Mode	 Enter Power Off Page	 Return to J9

INDEX : J5 ☒

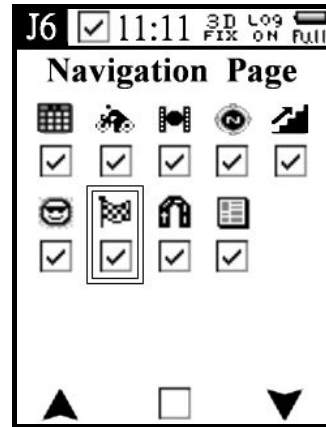
Page List : **Enable or Disable the Astronomy Page**









 Cycle through page items.	 Enable or Disable	 Cycle through page items.
 Enter Setting Mode	 Enter Power Off Page	 Return to J9

INDEX : J6 ☒

Page List : **Enable or Disable the Navigation Page**









 Cycle through page items.	 Enable or Disable	 Cycle through page items.
 Enter Setting Mode	 Enter Power Off Page	 Return to J9

INDEX : J7 ☒

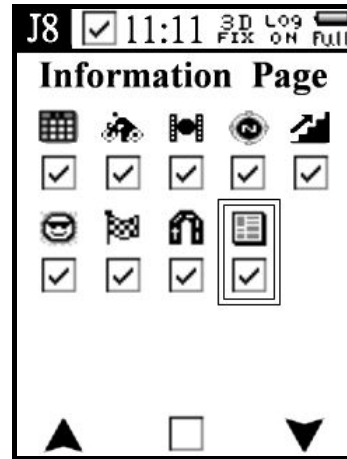
Page List : **Enable or Disable the Training Page**









 Cycle through page items.	 Enable or Disable	 Cycle through page items.
 Enter Setting Mode	 Enter Power Off Page	 Return to J9

INDEX : J8 ☒

Page List : **Enable or Disable the Information Page**

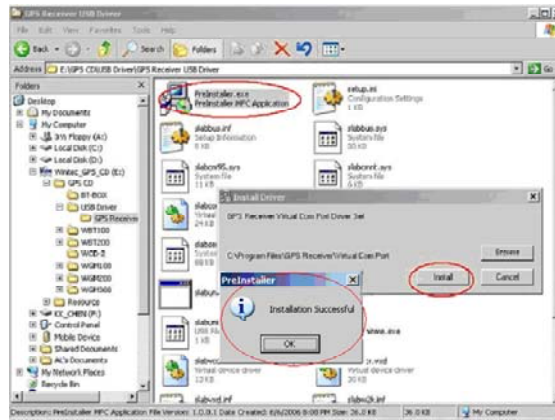


 Cycle through page items.	 Enable or Disable	 Cycle through page items.
 Enter Setting Mode	 Enter Power Off Page	 Return to J9

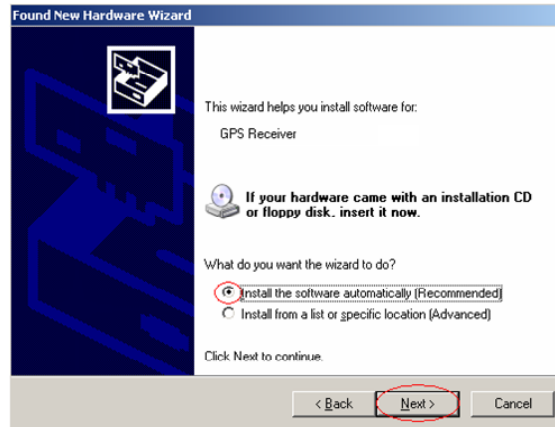
1、 Execute installation and click “Install”.



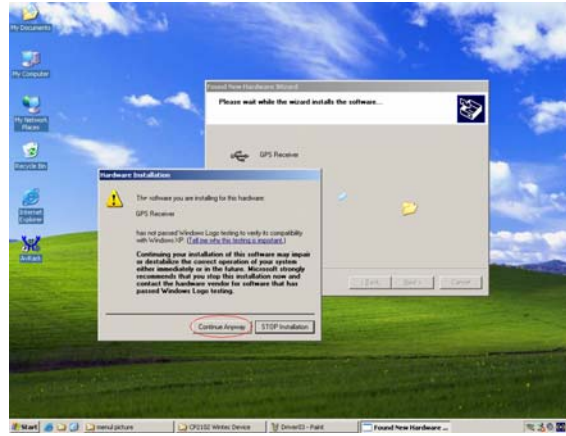
2、 Installation is done when this screen displays.



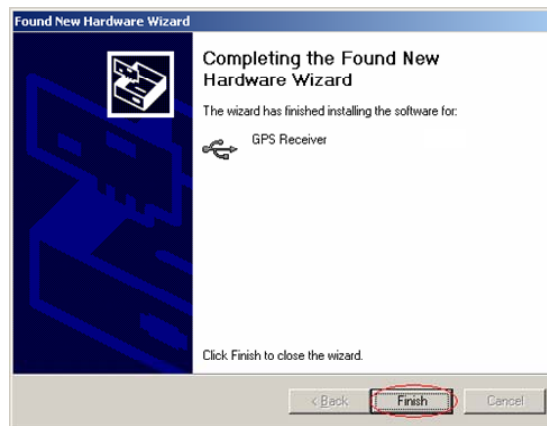
- 3、 Use USB cord to connect G-Trender to the USB port of computer. Computer will automatically check it and seek driver software by itself. If PC asks for “device manager” for adding the new USB device following USB device connection, take the procedure below. Click “next”.



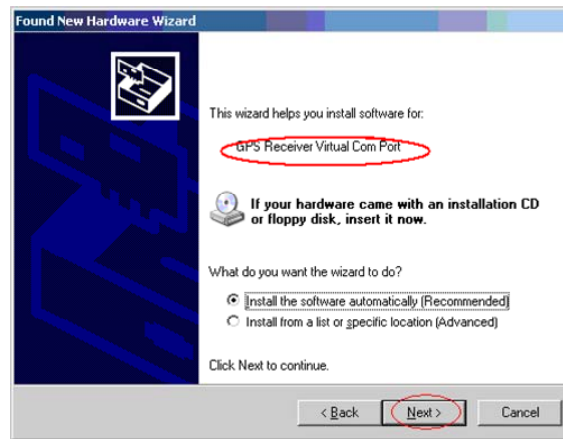
4、 If the screen display as below. Click “continue anyway”.



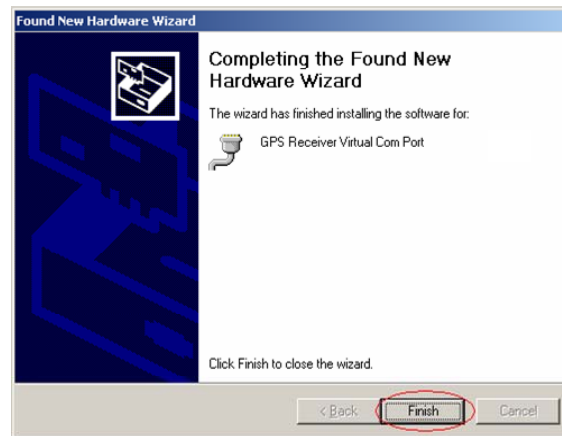
5、 Installation completed.



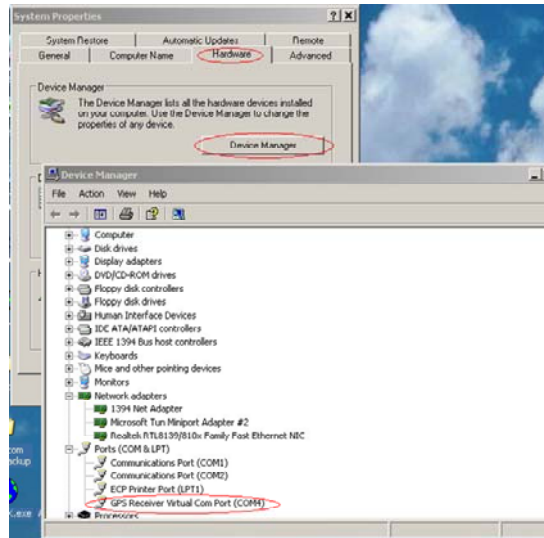
- 6、 Immediately afterwards, PC will ask again to install “GPS Receiver Virtual Com Port” driver. Click “next”.



7、 Installation completed.



- 8、 To check the installation status, go to the “device manager”. As in the illustration (marked in red circle), the USB driver is correctly installed to PC. The illustration also shows USB being transferred to Com Port assigned as COM4. In the future, whenever the USB device is connected to USB port on the computer, the COM 4 acts as the interface for data communication.



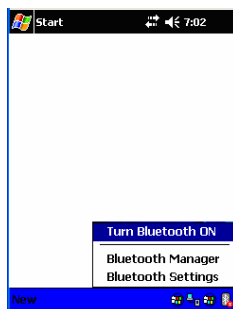
Part 6 Connecting with Pocket PC

Use of this with Pocket PC for location check.

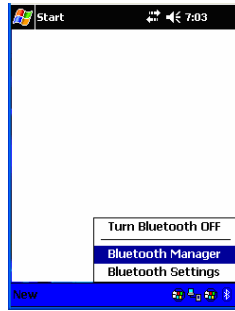
Turn G-Trender Bluetooth device Power on and then create Bluetooth connection with Pocket PC.

Bluetooth connection to Pocket PC.

1. Tap the Bluetooth icon on Pocket PC's taskbar to view the Bluetooth menu. Tap the "Turn Bluetooth ON" to enable Bluetooth.



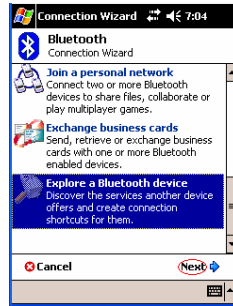
2. Tap the Bluetooth icon again and select the “Bluetooth Manager”.



3. From Bluetooth Manager toolbar, tap “New” to search for any other Bluetooth devices in its vicinity.



4. Tap “Explore a Bluetooth device” to view Bluetooth devices services and create a shortcut to them. Click “Next” to continue.



5. Tap “G-Trender” icon to view the device services.



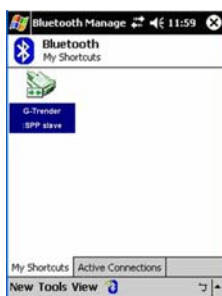
6. Select “SPP slave” services and tap “Next” to create a shortcut to it.



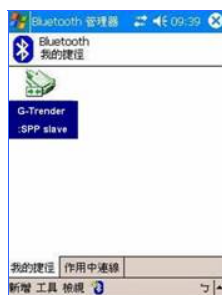
7. Tap “Finish” to complete the procedure.



- 8、 From the “My Shortcuts” tab, tap the “G-Trender: SPP slave” icon and select the “Connect” option to connect it.



- 9、 When a connection is successfully established, the shortcut icon will turn to green color.



Part 7 Trouble shooting

- The GPS signal will become weak under the following conditions.
- If the vehicle enters the tunnel. The GPS signal transmits linearly down to earth and its signal is blocked out in this situation.
- GPS satellite coverage gets poor because of high-rise building or thick forest. Even though G-Trender can receive reflected weak GPS signal, the data might be less accurate.
- The sun shade in the vehicle can partially block out GPS signal and effect good reception. The GPS satellite is under control of USA and the accuracy might vary depending on some special purpose (especially when manipulated by USA).
- It is a normal situation when GPS data displayed by the receiver device shows a big difference from real position because of unstable atmospheric condition which causes GPS axis to drift from actual map axis occasionally.
- Some navigation software can only decode latitude/longitude from NMEA0183 provided by logger. No altitude information is available and therefore it cannot define vehicle's position whether that is over or under the bridge.
- After successful positioning of G-Trender, if it is moved to another area of 500 km away it cannot be easily re-positioned. This is because the firstly recorded data

(position, time and number of satellites acquisitioned) is different from the new area. It will need longer time for re-positioning.

- When the power LED flashes red, the battery is critically low and needs re-charging. If it is not recharged within 30~100 min, G-Trender will stop to work to prevent total exhaust of power.
- PIN code will be requested after Bluetooth connection initiates between GPS and Pocket PC. Enter code as 0000.
- Avoid placing 2 GPS devices too close during positioning.
- Bluetooth connection takes 5 seconds for self-check. Each time the device is switched on; it needs 5 seconds before connection.
- It is normal if the Bluetooth coverage might become short sometimes due to environmental interferences.
- USB driver must be installed first before connecting the device to the USB port of computer. Make sure of the right Com Port being used.
- If disconnection between Pocket PC and GPS is done in a abnormal way, Pocket PC will halt. Try to disconnect Bluetooth connection in a standard method.
- If the G-Trender is found to work abnormally because of wrong procedure, reset it by taking off the battery. It will have factory default without effecting pre-set program. At the factory default, GPS reception begins in a warm start mode and its position may take longer time.
- If G-Trender is used for navigation but found unworkable after connection is done. Make sure the format of NMEA0183 that the software used match up G-Trender export format.

