DG-100 Data Logger User Manual

Version 1.21



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1 Introduction and Features Introduction

GlobalSat **DG-100** is a GPS data logger that records track data from the received GPS signal. With a GPS logger and antenna built in a miniature construction, **DG-100** features an all-in-one, cost-effective GPS logger solution. The DG-100 records time, date, speed, altitude and GPS location at preset intervals. Based on the SiRF star III chipset, **DG-100** offers accurate position tracking capabilities.

All recorded GPS information can be downloaded to the computer. It is a convenient, economical way for later review of your recorded histories. Simply connect the **DG-100** to your PC or Notebook, and then download the track-log to your PC for use with Windows based software utility. User can easily export the recorded points to Google Earth and Google Maps.

It is ideal application in fleet management, marine navigational aids, traveling and consumer personal use. You also can use the **DG-100** as an USB GPS mouse. It is another good feature for **DG-100**.

Features

The main features of DG-100 GPS data logger

- 1. SiRF StarIII chipset 20 channels.
- 2. Allowing user to store up to 60000 points.
- 3. Two NiMh batteries for more than 20 hours continuous operation.
- 4. USB interface.
- 5. Power On/Off button for easy use.
- 6. Three preset saving intervals (Time/Distance) can be selected by slide switch.
- 7. Three LEDs to show the status of GPS, battery and memory.
- 8. MMCX port for external GPS antenna.
- 9. USB G-mouse function.
- 10. Configuration Wizard helps you to quickly make the configuration.
- 11. User friendly Windows based software utility. User may use the software utility to do the following functions:
 - Upload recorded data
 - Change Recording Interval
 - Configuration setting
 - Delete recorded data
 - Exporting and mapping your recorded data:
 - (1) Exploring to KML (Interface with Google Earth)
 - (2) Show recorded data on Google Maps
 - (3) Text format
 - (4) Excel file format
 - (5) RMC Compatible format
 - (6) GPX format

2 Specifications

System specification

Electrical Characte	ristics		
GPS standard	SiRF Star III		
GPS Antenna	Built-in patch antenna		
Operation time	Up to 24 hrs		
Charge time	7 hrs		
Battery Charging	USB connector @ 350mah		
POWER BUTTON			
Power On/Off	Press and hold for 3 second to On/Off the device.		
Instant Save	Press button once to save a waypoint manually when device is active.		
STATUS LED'S			
GPS status	Flashing Green – GPS position is fixed. Steady Green – GPS position is not fixed.		
Power status	Solid Red – Device is power on.		
	Flashing Red – Device is in low battery power.		
	Solid Amber – Battery is being charged.		
Memory status	Flashing Blue – Memory is 2/3 full.		
	Solid Blue – Memory is full.		
TEMPERATURE			
Operating	-20°C ~ 50°C (-4°F ~ 122°F)		
Storage	-20°C ~ 35°C (-4°F ~ 95°F)		
Humidity	Operational up to 95% non-condensing		
SLIDE SWITCH			
One Slide Switch	There are three customized setting of intervals.		
	A (interval 1 Time or Distance selectable)		
	B (interval 2 Time or Distance selectable)		
	C (interval 3 Time or Distance selectable)		
BATTERY			
Battery Type	Two NiMh Rechargeable Battery		
MECHANICAL			
Dimension	3.15"X 2.75''X 0.7''		

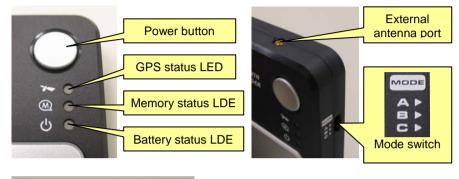
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GPS specification

Electrical Characte	pristics
GPS Chipset	SiRF Star III
Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
ACCURACY	
Position Horizontal	10 meters, 2D RMS
	1-5 meters 2D RMS, WAAS corrected
Velocity	0.1m/sec
Time	1 micro-second synchronized to GPS time
DATUM	
Datum	Default: WGS-84
ACQUISITION RAT	ΓE
Hot start	1 sec., average
Warm start	38 sec., average
Cold start	42 sec., average
Reacquisition	0.1 sec. average
PROTOCOL	
GPS Protocol	Default: NMEA 0183 (Secondary: SiRF binary)
GPS Output format	GGA(1sec), GSA(1sec), GSV(5sec), RMC(1sec), GLL, VTG is optional
DYNAMIC CONDIT	ION
Acceleration Limit	Less than 4g
Altitude Limit	18,000 meters (60,000 feet) max.
Velocity Limit	515 meters/sec. (1,000 knots) max.
Jerk Limit	20 m/sec**3

3 Hardware overview

Hardware introduction





Detailed Hardware Functions

Power button	Press and hold the power button for 3 seconds to turn on/off the device. Press power button once to save a waypoint manually when device is active.	
Mode Switch	You can set up to 3 different interval modes for your requirement by the software utility.	
GPS status LED	Flashing Green	- GPS position is fixed.
	Steady Green	- GPS position is not fixed.
Memory status LED	Flashing Blue	– Memory is 2/3 full.
	Solid Blue	– Memory is full.
Battery status LED	Solid Red	- Device is power on.
	Flashing Red	- Device is in low battery power.
	Solid Amber	 Battery is being charged.
External antenna Port	For you to connect an external antenna.	
USB connector	Connect with the USB cable for data transfer or battery charging purpose.	
Belt clip	You can use the belt clip to clip DG-100 on your belt or backpack.	
DC charger (optional)	For you to charge the DG-100 in car or use it in car.	

Package contents

Check the contents of your DG-100 package. If you find any accessories are missing or appear damaged, please contact your dealer immediately.

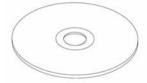




Belt clip



Two rechargeable NiMh batteries



CD (user manual, software utility)



DC charger (optional)

4 Software Utility

Software Utility features

Upload recorded data:	User can upload recorded data and save it to PC.
Information Stored:	 Only Position Position, Time, Date, Speed. Position, Time, Date, Speed, Altitude. User programmable via software utility.
Speed Filter:	Disables data save if speed falls below a threshold value.
Distance Filter	Disable data save if data logger hasn't moved greater than the selected radius.
Saving intervals:	Saving interval (Time or Distance) can be selectable. User programmable via utility. Mode Switch to select saving interval.
Converting Output format	 (1) Exploring to KML (Interface with Google Earth) (2) Show recorded data on Google Maps (3) Text format (4) Excel file format (5) RMC Compatible format (6) GPX format
Configuration Wizard	Using Configuration Wizard to help you quick adjust the settings, including Mode A, B, C.

Install the software Utility



- Insert the software utility CD into your CD-ROM drive, the installation program will start automatically.
- If the installation program did not start, please double click on the "auto.exe" from the CD to start it.
- 3. Click on "Install USB Driver" button to install the USB driver which is needed when you connect DG-100 to your PC.
- Click on "DG-100 PC Utility" button and follow the instruction to install the DG-100 software utility.
- 5. You can click "**User Manual**" button to open the user manual folder. The user manual is in PDF format. You have to install the Acrobat PDF Reader to view the PDF file.

DG-100 Setup

- Turn on the power of DG-100, and then connect it to the USB port on PC.
- Check the COM port of DG-100 first. Click [Start] > [Control Panel] > [Performance and Maintenance] > [System], you will see the System Properties dialog box; click on [Hardware] tab and then the [Device Manager] button. Expand the [Ports (COM & LPT)] item, and the "Prolific USB-to-Serial Comm Port" is the COM port of you DG-100.
- Click from [Start] > [All Programs]
 [GlobalSat Data Logger] >
 [DG-100 Utility] to start the GlobalSat DG-100 utility.

The Configuration Wizard appears when the first time you start the program. It helps you to quickly setup the configuration with easy step by step.

- Step 1: Select Device Type. Please select "DG100r".
- Step 2: Select COM port.



Select Device Type	
DG100	•

Select COM port	
COM1:	•

 Step 3: Select the Mode switch. There are 3 default predefined modes, including "Walk/Jog", "Bicycle", and "Vehicle". The data saving interval is 30 seconds for "Walk/Jog", 10 seconds for

Select Mode		
Mode A:	Walk/Jog	•
Mode B:	Bicycle	•
Mode C:	Vehicle	•

"Bicycle" and 5 seconds for "Vehicle". You can change the different time or distance interval in the **Device Configuration** window.

- Step 4: Select the Metric or Imperial unit.
- Step 5: Select the directory for exporting files.

Select Unit	Select the directory of Export Files	
 Metric 	CSV Directory: C:\Program Files\GlobalSat Tecnology Coporation\DG-100 Ulility\csv Browse.	
	TXT Directory: C\Program Files\GlobalSat Tecnology Coporation\DG-100 Ulility\txt Browse	
C Imperial	KML Directory: C:\Program Files\GlobalSat Tecnology Coporation\DG-100 Ulility\kml Browse	

 When you finished the setup, a successful message appears and all settings are saved in system.

GlobalSa	at Data Logger PC Utility 🛛 🛛 🔀
<u>^</u>	Set Configuration Successfully. Restart the PC utility and the device
	ОК

4. The DG-100 utility will import the setting you just made from Configuration Wizard.
If you did not use Configuration Wizard to do the settings, please manually select the correct COM port and set the Baud Rate to "115200".
If later on you want to enable Configuration Wizard again, please

click from menu bar, [File] > [Quick Configuration].

Global Sat. DG-100 PC Utility
File View Settings TrackRecord Map Help
COM Port : COM3:
Baud Rate : 115200
Start GMouse mode

 From menu bar, click on [Settings] > [Configuration] to open the Device Configuration dialog box.

Device Configuration		
Data logging format C Only position Position, Time, Date, Speed Position, Time, Date, Speed, Altitude		OK Cancel
Enable WAAS/EGNOS/MSAS Disable data logging if speed falls below a threshold: Disable data logging if distance is less than the selected re Set the default logging interval	0 km/hour adius: 0	meters
Data logging interval Mode A G By time: 30 Seconds By distance: 0 meters	System Information Memory Usage: 0 %	
Data logging interval Mode B By time: 10 seconds By distance: 0 meters		
Data logging interval Mode C By time: 5 seconds By distance: 0 meters		

Data logging format:

There are three options for you to choose those data items to be recorded. **Enable WAAS/EGNOS/MSAS:**

Enable the WAAS/EGNOS/MSAS feature to acquire more precise position.

▶ Disable data logging if speed falls below a threshold:

If your speed is below this specified value, DG-100 will not save the data of current position.

Disable data logging if distance is less than the selected radius:

If the distance between your last point and current point is less than this specified value, DG-100 will not save the data of current position.

- Data logging interval Mode A, B, C
 - Setup the Mode Switch for the interval (time or distance) for recording the data.

System information It shows the current memory usage status.

6. When you have done the configuration setup, press **OK** button to save the settings

to DG-100.

7. These setting will take effect when next time you restart the device.

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5 Getting Started

Global Sat. DG-100 PC Unity- le Yerv Sethup: InskRecord May Hundow Help DF ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Tool Bar
COM Port CUMS COM For CUMS COM FOR FOR FOR CUMS COM FOR FOR CUMS COM FOR FOR FOR CUMS COM FOR FOR FOR FOR FOR CUMS COM FOR	Google Map View GPS Info Constraints of the second seco
	Try zooming out for a Try zooming out for a breader look.
- Deb Loger Firsteelet time 2006-11-29-14-45 D001,2006-11-24:14-70 J D002,2006-11-24:1512.26 D003,2006-11-24:1512.26 D003,2006-11-24:1512.26 D003,2006-11-24:1512.05 D003,2006-11-24:1510.05 D007,2006-11-24:1510.05 D007,2006-11-24:1554.02 D007,2006-11-24:1556.02 D007,2006-11-24:1556.02 D007,2006-11-24:1556.02	GPS information
Tree Bar 24 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	Idi019 2459-744 Status Bar Idi0144 2499-746 Status Bar Idi0144 2499-786 Status Bar Idi0150 2499-786 Status Bar Idi010 2499-786 Status Bar Idi050 2499-786 Status Bar
成	2006/11/29 14:45:44



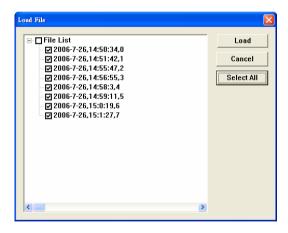
1	Open a training file.	8	The Configuration for GPS device.
2	Save training information to a file.	9	Metric system.
3	Preference	10	Delete records.
4	Select all files.	11	Load Track Points.
5	Export training information to the KML format.	12	Export to Google Earth.
6	Export to CSV file.	13	Display program information, version number and copyright.
7	Export to the text file.		

DG-100 Usage

- When you press the power button to turn on the DG-100, it starts to search the GPS signal. After the GPS position is fixed, it will begin to record and save the position data.
- 2. You can select the Mode Switch for the different recording interval as you need.
- 3. If you want to stop recording, just press the power button to turn it off.
- 4. When the battery power is exhausted, it will shut down automatically.
- **Note:** When you connect DG-100 to your PC, DG-100 will enter the "data transfer mode", it can not record the data in this mode. After you disconnect it from PC, please remember to power off and restart DG-100 to make it return to Data Logger mode.

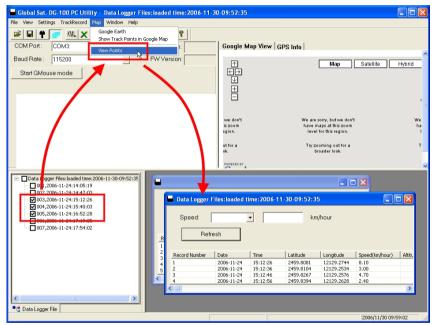
Transfer data to your PC

 Turn on the power of DG-100, and then connect it to the USB port on PC. Start the software utility. Select the correct COM port and set the Baud Rate to "115200". From menu bar, click on [TrackRecord] > [Load Track Points]. Select the data item which you want to load and click on "Load" button.



- 2. The data is loaded in the Tree Bar area, and the entire track points will be sorted by time order displaying on the right bottom window.
- Select the data you want from Tree Bar area. From menu bar click
 [Map] > [View Points]; the data you select will be combined and displayed in details in a new window or the right side.

(You can click on [File] > [Select All Files] to automatically select all data record in Tree Bar, or click on [File] > [Select All Files] again to deselect all.)



Save data

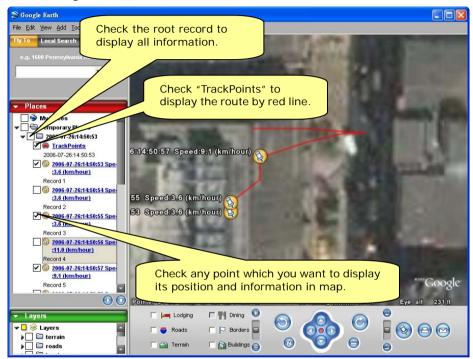
From menu bar click on [File] > [Save] to save the data to a DataLogger (*.gsd) format. This will save all data items in Tree Bar no matter they are selected or not. You can open the saved gsd file by [File] > [Open].

Displaying the data on map

1. Display the track points on Google Earth:

You can display all the data from "active window" on Google Earth. Just click [Map]

> [Google Earth] from the menu bar.



- 1.1 By default, it only shows the track points on the map.
- 1.2 You can select from [File] > [Preference], and check the "Show Speed/Time in Google Earth" to have the Speed and Time info of the points shown on the map.

rei		

Show Speed/Time in google earth

1.3 To display the route on Google Earth, you must install Google Earth and the internet connection is also needed. For more information, please visit <u>http://earth.google.com/</u>.

2. Display the track points on Google Maps:

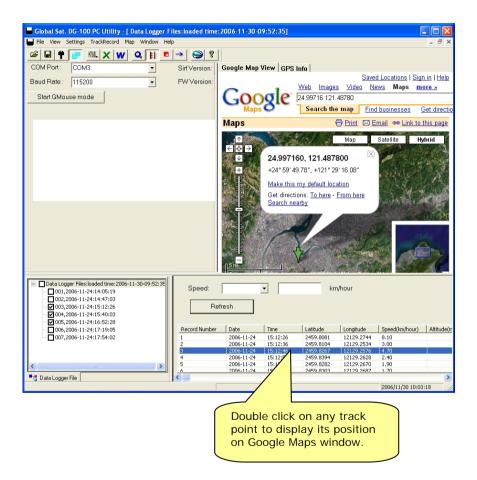
You can display all the data from "active window" on Google Maps. Just click [Map]

> [Show Track Points in Google Maps] from the menu bar. To display the track points on Google Maps, your PC must have the internet connection enabled.

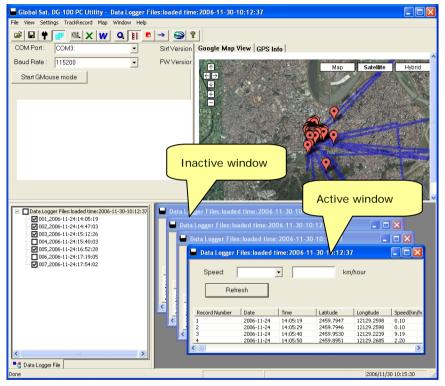
Global Sat. DG-100 PC Utility - Data Logg File View Settings TrackRecord Map Window	2	ne:2006-11-3	0-09:52:35			
		?				
COM Port: COM3:						
	GUUGIE Ma	p View GPS	Into			
Baud Rate : 115200 -			- Manual -		tap Sat	ellite Hybrid
Start GMouse mode		2 \$?			
Data Logger Files:loaded time:2006-11-30 01,2006-11-24:14:05:19 002,2006-11-24:14:14:70:3 003,2006-11-24:15:12:26	Data Logger	Files:loaded t	ime: 2006-1		5 /hour	
- 004,2006-11-24:15:40:03						
 □ 004,2006-11-24:15:40:03 □ 005,2006-11-24:16:52:28 □ 006,2006-11-24:17:19:05 □ 007,2006-11-24:17:54:02 	· · · · · · · · · · · · · · · · · · ·	resh				
- 🔽 005,2006-11-24:16:52:28 - 🗖 006,2006-11-24:17:19:05	· · · · · · · · · · · · · · · · · · ·	resh Date	Time	Latitude	Longitude	Speed(km/hour)
005,2006-11-24:16:52:28 006,2006-11-24:17:19:05	Record Number	Date 2006-11-24	16:52:28	2459.8883	12130.1250	17.50
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- V 005,2006-11-24:16:52:28 006,2006-11-24:17:19:05	Record Number	Date 2006-11-24 2006-11-24 2006-11-24	16:52:28 16:52:38 16:53:07	2459.8883 2459.8685 2459.7997	12130.1250 12129.9647 12129.5820	17.50 43.30 4.59
- ♥ 005,2006-11-24:16:52:28 - □ 006,2006-11-24:17:19:05	Ret Record Number 1 2 3 4	Date 2006-11-24 2006-11-24 2006-11-24 2006-11-24	16:52:28 16:52:38 16:53:07 16:53:17	2459.8883 2459.8685 2459.7997 2459.7985	12130.1250 12129.9647 12129.5820 12129.5692	17.50 43.30 4.59 1.90
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- ♥ 005,2006-11-24:16:52:28 - □ 006,2006-11-24:17:19:05	Ref Record Number 1 2 3 4 5 6	Date 2006-11-24 2006-11-24 2006-11-24 2006-11-24 2006-11-24	16:52:28 16:52:38 16:53:07 16:53:17 16:53:27 16:53:27 16:53:37	2459.8883 2459.8685 2459.7997 2459.7985 2459.8033 2459.8033	12130.1250 12129.9647 12129.5820 12129.5692 12129.5563 12129.5522	17.50 43.30 4.59 1.90 2.50 2.60
005,2006-11-24:16:52:28 006,2006-11-24:17:19:05 007,2006-11-24:17:54:02	Record Number 1 2 3 4 5 6 7	Date 2006-11-24 2006-11-24 2006-11-24 2006-11-24 2006-11-24	16:52:28 16:52:38 16:53:07 16:53:17 16:53:27	2459,8883 2459,8685 2459,7997 2459,7985 2459,8033	12130.1250 12129.9647 12129.5820 12129.5692 12129.5563	17.50 43.30 4.59 1.90 2.50 2.60 3.40
005,2006-11-24:16:52:28 006,2006-11-24:17:19:05 007,2006-11-24:17:54:02	Ref Record Number 1 2 3 4 5 6	Date 2006-11-24 2006-11-24 2006-11-24 2006-11-24 2006-11-24	16:52:28 16:52:38 16:53:07 16:53:17 16:53:27 16:53:27 16:53:37	2459.8883 2459.8685 2459.7997 2459.7985 2459.8033 2459.8033	12130.1250 12129.9647 12129.5820 12129.5692 12129.5563 12129.5522	17.50 43.30 4.59 1.90 2.50 2.60
005,2006-11-24:16:52:28 006,2006-11-24:17:19:05 007,2006-11-24:17:54:02	Record Number 1 2 3 4 5 6 7	Date 2006-11-24 2006-11-24 2006-11-24 2006-11-24 2006-11-24	16:52:28 16:52:38 16:53:07 16:53:17 16:53:27 16:53:27 16:53:37	2459.8883 2459.8685 2459.7997 2459.7985 2459.8033 2459.8033	12130.1250 12129.9647 12129.5820 12129.5692 12129.5563 12129.5522	17.50 43.30 4.59 1.90 2.50 2.60 3.40

3. Display one track point on Google Maps:

You can double click on any track point to display its position on Google Maps.



Export data



- 1. With the export function, you can export the data in "active window" to the following five kinds of data format.
- Click [File] > [Export] > [KML File] to export the data to the Google Earth KML file format.
- 3. Click [File] > [Export] > [CSV File] to export the data to the Excel file format.
- 4. Click [File] > [Export] > [TXT File] to export the data to the TXT file format.
- Click [File] > [Export] > [RMC Compatible Format] to export RMC file which only include "UTC Time", "Status", "Latitude", "N/S Indicator", "Longitude", "E/W Indicator", "Speed Over Ground" and "Date". The other fields will be left blank.
- 6. Click [File] > [Export] > [GPX File] to export the data to the GPX file format.

Speed filter

Spee	:d: <=	•	3	kı	m/hour	
	Refresh					
Record	Date	Time	Latitude	Longitude	Speed (km/hour)	Altitude (meter)
31	2006-07-26	14:56:19	24.99643	121.48740	2.8	76.0
32	2006-07-26	14:56:20	24.99643	121.48741	2.8	76.0
42	2006-07-26	14:56:31	24.99641	121.48755	2.5	81.0
43	2006-07-26	14:56:32	24.99641	121.48756	2.7	82.0
14	2006-07-26	14:56:33	24.99641	121.48756	2.6	82.0
45	2006-07-26	14:56:34	24.99641	121.48756	2.8	83.0
46	2006-07-26	14:56:35	24.99640	121.48756	1.1	84.0
47	2006-07-26	14:56:36	24.99641	121.48756	2.3	84.0
50	2006-07-26	14:56:50	24.99655	121.48755	2.8	85.0
53	2006-07-26	14:56:53	24.99658	121.48753	3.0	86.0

The Speed filter function allows you to display the data which match the criteria. Select the range criteria and input speed value (integer), then click "**Refresh**" button.

Delete the data from memory

If you have already saved your data to PC, then you can click on [TrackRecord] > [Delete All] to delete all data from the DG-100 memory.

Metric system or imperial system

You can click on [Settings] > [Metric System] to check this item for displaying the distance by "meters" and speed by "km/hour", or uncheck it for displaying the distance by "feet" and speed by "mile/hour".

Using the G-mouse function

You can connect the DG-100 to your Notebook and use it as a GPS mouse.

- 1. Connect DG-100 to your Notebook.
- 2. Turn on the DG-100.
- 3. Start the DG-100 software utility.
- 4. Select the correct COM port and set Baud Rate to 115200.
- 5. Click the "**Start GMouse mode**" button. This would start DG-100 G-mouse function. Now you can close the DG-100 software utility.
- Start your Navigation software and set the COM port and Baud Rate if necessary. The G-mouse is ready for your use.
- 7. If you want to end the G-mouse mode, and return to the data logger mode, you must turn off the DG-100 and turn on it again.

COM Port: COM3:	Sirf Version: GSW3.2.2_3.1.00.12-SDK
Baud Rate : 115200 - F	W Version: F-OTH-0I-0611232
Start GMouse mode	
SGPGGA,021821.014,,,,,0,00,,,M,0.0,M,,0000*5B SGPGSA,A,1,,,,,,,1E SGPRMC,021821.014,V,,,,,301106,,,N*45 SGPGGA,021822.019,,,,0,00,,M,0.0,M,0000*55 SGPGSA,A,1,,,,,12,19,79,253,,03,69,013,,23,42,242 SGPGSV,3,2,12,16,35,049,,25,27,134,,31,17,130 SGPGSV,3,3,12,11,11,194,,21,04,043,,01,03,167 SGPRMC,021822.019,V,,,,,301106,,,N*4B	5 2,,13,42,268,*7F 0,,27,15,320,*75

6 Troubleshooting

Change the battery





- 1. Press downward to open the battery cover.
- 2. If there are rechargeable batteries in the DG-100, then you can connect the device to PC's USB port for battery charging or for data downloading.
- The USB port of computer will provide power to DG-100 via the USB cable when you make the connection. If you use the **non-rechargeable** battery, please remove it to avoid any hazard.

DG-100

7 Appendix Automatic Geotagging with "locr GPS

Photo"

"locr" is a completely new way of organizing photographs using geographical information. Its many great features include:

- The ability to find photos again much more easily, giving you a clear overview of your photograph collection, regardless of its size!
- Automatic descriptions are generated for every photo based on geographical information.
- Photos can also be shared with friends and family.

locr is based on photographs with geotags. A geotag provides information about the position at which the photo was taken. Geotags can either be defined manually or automatically via GPS.

Download and install

On the locr web site (http://www.locr.com) click on "Downloads" and follow the instructions on the screen.

To install the locr GPS Photo software, double-click the "locrGPSPhoto.exe" file. Follow the instructions on the screen.

For your convenient, the GPS Photo software V1.1 and user manual file are already in the CD-ROM, you can find them under the "locr" folder.

DG-100

Basic steps for Geotagging your photos



- 1. Record GPS data. Remember to bring your DG-100 GPS data logger with you and turn on it while you are taking the picture.
- Take photos. Before taking the photo simply set the camera time and date according to the system time displayed on the computer you want to use for uploading the photos later.
- From DG-100 PC software, export your data logger file as ".rmc" format. Start locr GPS Photo program. Click "Add" button to load your photos and GPS Track files (.rmc). Then click "Automatic geotagging..." button to automatically add geographical information to photos.

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MG_4585.JPG	6/25/2007 4:13:10 PM			
MG_4506.JPG	6/25/2007 4:14:04 PM			
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 For details operations of "locr GPS Photo", please read the user manual "locrGPSPhoto-Manual_EN.pdf" or web site <u>www.locr.com</u>.

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.