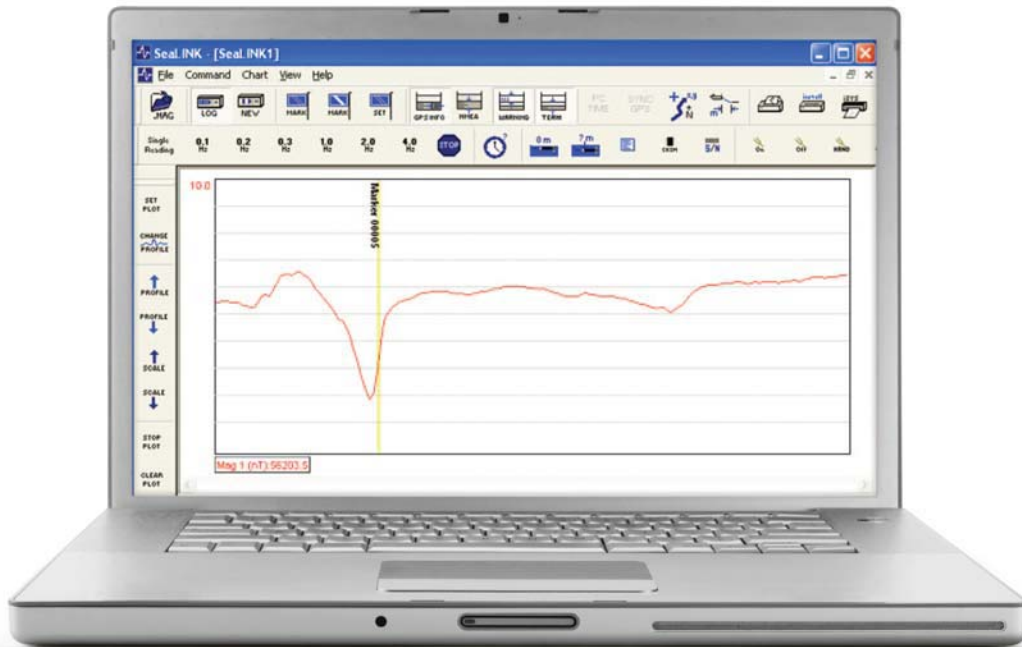


# SeaLINK

## Data logging and GPS Software



**A Windows® application that will help you get the most out of your Marine Magnetics SeaSPY or Explorer magnetometers. Enabling full communication and interface with your magnetometer, SeaLINK displays and records all incoming data.**

**When used with an NMEA-capable GPS receiver, SeaLINK also lets you record each magnetic reading with the precise geographical positioning. This complete surveying software package is supplied free of charge with all SeaSPY and Explorer marine magnetometer systems.**

### **Easy to Use Interface**

With SeaLINK you can program your magnetometer with the push of a toolbar button or by single character keyboard commands in SeaLINK's ASCII terminal. Quickly know the status of your towfish and critical software settings using SeaLINK graphical warning indicators. Large format toolbar buttons make for easy operation from laptop computers.

### **Real Time Graphical Plotting of Data**

Magnetic field data is plotted in real time as a line-graph in SeaLINK's customizable chart window. You also have the option to plot the towfish depth and altitude traces. The chart can be config-

ured for both fixed and floating scales and the displayed traces can be scaled individually. Target and navigation markers are also displayed graphically on screen.

### **Target and Navigation Markers**

Mark magnetic targets or the start and end of survey lines using SeaLINK's auto-incrementing numerical file markers. Markers can be triggered by keyboard or toolbar commands or upon receipt of a DSR signal on the COM port. NMEA GPS capability Tag every magnetometer reading with a GPS coordinate. If the GPS data frequency is less than the magnetometer sampling rate, a coordinate will be interpolated for interim magnetometer readings. GPS

```

example log.xyz - Notepad
File Edit Format View Help
-----
Marine Magnetics Corp. SeaLINK Magnetometer Data Log [ 2002/03/02 13:36:57.0 ]
Filename -- [ Z:\Logs\sl_info_063.XYZ ]
-----
/Date      Time      Field      Alt      Depth Longitude Latitude  UTM_East  UTM_North  UTM_Zone
2004/03/02 13:36:57.0 560274.120 5.20m 50.0m -46.858373 31.642365 323774.8 3502295.3 23R
2004/03/02 13:36:58.0 560274.430 5.30m 50.1m -46.858351 31.642391 323777.0 3502298.2 23R
2004/03/02 13:36:59.0 560275.380 5.40m 50.2m -46.858336 31.642408 323778.4 3502299.9 23R
2004/03/02 13:37:00.0 560275.389 5.40m 50.3m -46.858330 31.642414 323779.0 3502300.7 23R

```

SeaLINK XYZ Log Example

NMEA data is accepted through any free COM port on the PC. The user will generally set the magnetometer up on COM1, and the GPS data onto COM2. All GPS information can be shown on-screen in real time and recorded in latitude/longitude format, or as UTM projection with WGS84 datum. GPS data can also be stored completely independently from the magnetometer data stream. SeaLINK also has the ability to synchronize the magnetometer Marine Magnetics Data Logging & GPS Software.

**Flexible and Reliable Data Logging**

SeaLINK has the ability to record raw magnetometer data that includes all quality control and status messages. In addition, a customizable 'XYZ' file log is recorded which can be easily imported into processing software or spreadsheet programs such as Excel. SeaLINK's XYZ log also gives you the flexibility to choose which data fields to include in the log and the format of the GPS coordinates. Both file logs can be viewed in any text editing program such as Notepad.

While surveying you have the option to start a new log file at the push of a button. SeaLINK will automatically numerically increment your file name to avoid data being overwritten. You also have the option to start and stop logging in the same file.

**Real Time Layback Correction**

Have SeaLINK correct for towfish layback in real time and avoid that tedious post processing step! SeaLINK's layback algorithm uses modeled tow cable dynamics to calculate the towfish position, even when making turns. Tag your magnetometer readings with both ship and towfish positions.

**Data Playback**

SeaLINK has the option to playback and review your recorded log in real-time or at increased playback rates. You can mark new targets and re-record the data to a new file log.

**NMEA GPS capability**

Tag every magnetometer reading with a GPS coordinate. If the GPS data frequency is less than the magnetometer sampling rate, a coordinate will be interpolated for interim magnetometer readings. GPS NMEA data is accepted through any free COM port on the PC. The user will generally set the magnetometer up on COM1, and the GPS data onto COM2.

All GPS information can be shown on-screen in real time and recorded in latitude/longitude format, or as UTM projection with WGS84 datum. GPS data can also be stored completely independently from the magnetometer data stream.

SeaLINK also has the ability to synchronize the magnetometer clock to GPS time at the click of a button, or automatically when SeaLINK starts.

**Real Time Printing**

SeaLINK supports real time printing to EPSON compatible 24-pin dot matrix printers and iSYS V8.5e thermal plotters. The Print output can be customized to meet your survey needs.

**Real Time Repeat**

This feature gives you the option to send the incoming magnetometer data to an additional data logging computer through a specified COM port.

**Logging Computer Requirements**

- Microsoft® Windows 98 Second Edition, Windows Millennium Edition, Windows NT® 4.0 with Service Pack 6, Windows 2000 with Service Pack 2, Windows XP Professional or Home Edition
- Intel® Pentium® or equivalent processor (200MHz or faster)
- 32MB of RAM
- One free RS-232 COM port (Two required when using a GPS)
- 40 MB of available hard-disk space

**GPS Compatibility Requirements**

GPS receiver capable of NMEA-0183 standard output (GGA or RMC sentences required)



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