

i.r.i.s.

infrared interface system



for



PRODUCT OVERVIEW

WARNING

Because the software program is subject to upgrades and improvements in response to feedback received from users, the contents of this manual may differ slightly from subsequent versions of the software available on the website www.mares.com

WARNING

Carefully read this instruction manual before use, and keep it for future reference.

Congratulations for purchasing the new IRIS (Infra-Red Interface System)!

This product will enable you to display and manage your dive data, and complete the description of your dives by entering additional information. The software is also a useful training tool, thanks to its dive simulator, as well as a valid analysis instrument.

PRINCIPAL CHARACTERISTICS

- ▶ Upload of dive log data from your Dive Computer to a PC via infrared link (IR).
- ▶ Entry of additional data about the logged dives (e.g. type of dive...).
- ▶ Comparative statistics about the logged dives.
- ▶ Filters for selectively viewing certain types of dives.
- ▶ Time zone correction.
- ▶ Different print modes with preview.
- ▶ Graphic processing of the dive profile with analysis tools.

- ▶ Dive simulator.
- ▶ Possibility of entering your photo to identify the logged dive.
- ▶ Support for six languages.
- ▶ On-line Help facility.

MATERIALS SUPPLIED

- ▶ Standard serial cable with 9-pin connector.
- ▶ IR Interface unit for the dive computer.
- ▶ IRIS interface program CD-ROM.
- ▶ Instruction manual.

INSTALLING THE SOFTWARE

MINIMUM SYSTEM REQUIREMENTS

The IRIS interface software requires a Personal Computer with the following minimum configuration:

- ▶ Pentium 1 processor or higher.
- ▶ Microsoft Windows® 98 or higher.
- ▶ At least 16 Mbytes of RAM.
- ▶ 10 Mbytes free hard disk space.
- ▶ One CD-ROM drive.

INSTALLATION PROCEDURE

- ▶ Insert the CD ROM into the drive.
- ▶ Select the directory corresponding to the chosen language.
- ▶ Run the setup.exe program.
- ▶ Follow the instructions provided by the "Setup" program to complete the installation.
- ▶ When installation is complete, a window is created which contains the SN interface program icon.

OVERVIEW OF FUNCTIONS

This brief description of the IRIS Interface functions will provide an overview of the program's capabilities. For further information about each individual function, refer to the comprehensive **on-line Help** facility which will allow you to quickly learn the program. The Help facility is intuitive and easy to consult.

When the IRIS interface program is started, the "log book" window appears on the screen. Obviously, when running the program for the first time, this window will not yet contain your personal dive data. Instead, it shows a reference dive log which provides a useful guide for setting up your own Log Book and getting started with the program.

WARNING

The IRIS interface program is designed to manage more than one Dive Computer, therefore always check which is the currently selected Dive Computer and change the selection if necessary. To do this, proceed as follows:

- 1) choose "Preferences" from the "File" menu or using the shortcut keys;
- 2) select the desired Dive Computer;
- 3) exit the program and then re-start it.

Selecting a log book opens the file and displays the logged dives.

Selecting an individual dive displays its general details in the right hand panel, where it is possible to enter data. By selecting the various other windows it is also possible to view the dive settings, technical information, profile data, and to enter any additional notes and comments.

The program also incorporates the following menus, for accessing its various specific functions.

MENU FILE

PRINT OPTIONS

The Print and Preview options can be accessed using the shortcut keys or the File -> Print menu item.

By choosing "Current Dive", it is possible to preview and print out the following:

- 1) Data and profile of the current dive.
- 2) Profile of the current dive.

By choosing "All dives" it is possible to print out the following from the currently open log book file:

- 1) Data and profile.
- 2) Profile of all the dives in that log book file.
- 3) Statistics on all the logged dives.

If the Filtered Dives options is enabled, the printout will only include the filtered dives for that log book file.

PREFERENCES

The Preferences options can be accessed using the shortcut keys or the File -> Preferences menu item.

It is possible to make the following settings:

- ▶ select the type of Dive Computer being used.
- ▶ select the language.
- ▶ select the units of measurement (metric or imperial).
- ▶ select the serial port for uploading data.
- ▶ personalize the colors and icons used in the dive profile.
- ▶ define which dives should be included in the statistics.

EXIT

Closes the program.

LOGBOOK MENU

This menu contains functions for managing the log book files. It is possible to:

- ▶ Rename a log book file or dive.
- ▶ Delete a log book file or dive.
- ▶ View statistics on all the logged dives.
- ▶ Select filters.
- ▶ Correct the time of the dive.

STATISTICS

Depending on the "preferences" setting, the statistics can be calculated on the currently selected log book file, or on all the log book files for the currently selected Dive Computer. The following data is included in the statistics:

- ▶ History data.
- ▶ Depth.
- ▶ Technical data.
- ▶ Weather conditions.
- ▶ Type of wetsuit.
- ▶ Activities.

APPLYING FILTERS

The Filter function can be accessed using the shortcut keys or the LogBook -> Filters menu item.

It is possible to selectively display the dives through the application of viewing filters. The available filters are:

- ▶ All dives.
 - ▶ Decompression-stop dives.
 - ▶ No-decompression dives.
- It is also possible to filter the dives according to:
- ▶ Date range (from... to...).
 - ▶ Depth range (from... to...).
 - ▶ Activity (Exploration, Training, ...).
 - ▶ By type of breathing mix used.

TIME ZONE CORRECTION

The Time Zone Correction menu calls up a special window for correcting the date and time of the dive.

IR LINK

UPLOADING DATA

The data upload function can be accessed using a short cut key or through the IR Link-> Upload Data menu item.

To transfer your dive data to the IRIS interface program, proceed as follows:

- 1) With the PC turned off, plug the 9-pin cable provided into one of the serial ports on the PC (e.g. into COM2). If the PC has a 25-pin serial port, use a standard 9- to 25-pin adapter. Plug the other 9-pin connector into the interface unit.
- 2) Turn on the PC and start the program by clicking the SN Interface icon.
- 3) Choose IR Link (Data Upload).
- 4) Using the button bar on the upper left, choose whether to append data to an existing Log Book file or create a new one.
- 5) The button bar can also be used to call up the preferences menu, to select which serial port to use.
- 6) When you are ready, choose the Upload button.
- 7) A message appears prompting you to confirm the upload of the dives into the chosen Log Book file.
- 8) If you answer yes, a message appears indicating which serial port is ready. Switch the Dive Computer to "PC" mode and position it so that its IR window is aligned with that of the interface unit, at a distance of a few centimeters.

- 9) Press OK and wait for the data transfer to be complete (the status of the data transfer is indicated by a "Progress" bar). If the value showing the percentage data transferred does not increase, adjust the alignment and distance between the Dive Computer and interface unit until the data transfer effectively begins.



WARNING

The Dive Computer must be in "PC mode".

SETTINGS

This function is used for changing the settings of the Dive Computer. The specific settings available will depend on the type of Dive Computer that is selected.

PROFILE MENU

Is used for displaying the profile of the current dive and for simulating a new dive.

CURRENT DIVE PROFILE

After selecting the dive to be analyzed, choose the Profile ->Current Dive Graph item or use the corresponding short cut key.

A new window appears which contains all the necessary tools for analyzing the current dive:

- ▶ Graphic processing of the dive profile.
- ▶ Mirror of the information displayed by the dive computer during the dive.
- ▶ Additional details identifying the dive in question.
- ▶ Bar graph indicating the status of the tissues monitored by the algorithm.

It is possible to scroll through the profile at 20 second intervals, viewing the same indications that

would normally appear on the Dive Computer display, for example:

- ▶ Depth.
- ▶ Dive time.
- ▶ No decompression time remaining.
- ▶ Depth of deepest decompression stop and total time to surface.
- ▶ Speed of ascent.
- ▶ Status of the tissues.

The window includes buttons for previewing and printing out the profile.

This printout is different from the one obtained from the File Menu, because the data printed is referred to a specific point of the dive profile.



WARNING

The resolution of the sampling interval may cause "inconsistent" data to be displayed for speed of ascent. More specifically, on certain descending stretches there might be an ascent indication, or even an excessive ascent rate alarm. This happens when -- within the 20 second sampling interval -- an initial ascent phase, perhaps begun in the preceding interval, is followed by a rapid descent which brings the maximum depth to a value greater than that of the preceding interval.

DIVE SIMULATION

After having selected the dive to display, choose the Profile ->Simulator item or use the corresponding short cut key.

This dive simulator is a valuable training tool.

Using the keys provided, it is possible to start the simulation, alter the ascent/descent rate and the speed of the simulation.

Using the button bar it is possible to:

- 1) Configure the simulation settings
- 2) Move and re-enable the DC display and the graphic tissue-status display.
- 3) Preview the simulation printout.
- 4) Modify points of the simulation graph.
- 5) Print out the simulation.

Note that the time for passing from one depth to the next is fixed at 20 seconds.

After running the simulation it is possible to scroll through the simulated dive, viewing the data that would have appeared on the Dive Computer display and the status of the tissues.

HELP MENU

The help facility can be accessed via the corresponding short cut key or the menu item. In the latter case, it is also possible to select the language.



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