

Installing WaveTrak

Installing and Running WaveTrak

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The WaveTrak application consists of several HyperCard stacks compressed into a self-extracting archive created by Compact Pro (a shareware program written by Bill Goodman). A 'Read Me' file contains important late information not included in the manual.

To install the WaveTrak application onto your hard disk if you received the software on floppies:

1. Insert the *locked* WaveTrak disk into your floppy drive, open the disk icon if necessary, and double click the icon named 'WaveTrak.sea'.
2. In a moment, a standard file dialog window will open from which you can select the hard disk where WaveTrak will be installed.
3. Click the 'Extract' button to begin. WaveTrak and all related files will be copied to your hard disk in a folder called 'WaveTrak™ folder'.
4. Eject the floppy by dragging its icon into the trash, and store it in a safe place.

To install the WaveTrak application onto your hard disk if you received the software from an on-line service:

1. You must 'de-binhex' the archive to convert it from an encoded ASCII file into an executable self-extracting archive. Use Compact Pro or Stuff-It.
2. Double-click the archive named 'WaveTrak.sea'. In a moment, a standard file dialog window will open from which you can select the hard disk where WaveTrak will be installed.
3. Click the 'Extract' button to begin. WaveTrak and all related files will be copied to your hard disk in a folder called 'WaveTrak™ folder'.

Installing WaveTrak

4. Eject the floppy by dragging its icon into the trash, and store it in a safe place.

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Please consult the 'Read Me!' file for important last-minute information, and be sure to send in your registration fee if you like and use the software.

Hardware Requirements

The following hardware is required to run the WaveTrak application:

- A Macintosh II series CPU with at least 2 MB of RAM and a 68881/882 math coprocessor, or a Macintosh Quadra.
- An Apple 13 inch color high-resolution RGB monitor or 12 inch monochrome monitor (or any other monitor which displays at least 640 x 480 pixels).
- A hard disk.
- A MacADIOS II data acquisition card from GW Instruments Inc. (Somerville, MA) will only be required if you wish to digitize analog data directly on your Macintosh. You will also need the optional WaveTrak A/D library to access the A/D card. Please contact the author for details.

Running WaveTrak

The WaveTrak environment consists of the main WaveTrak stack (called the *master*) as well as library stacks which contain various routines called by the master. You must have HyperCard version 2.0 or later installed on your hard disk (*Note to international customers: WaveTrak will only run with the **English** version of HyperCard*).

WaveTrak will run under System software version 6.0.7 or later. If you are running System 7.0, you should turn off virtual memory and upgrade to HyperCard version 2.1 or later. HyperCard 2.x allows you to open several stacks at once in different windows. *Do not open more than one WaveTrak master stack at the same time* or WaveTrak will get confused.

You must allocate a MultiFinder partition of at least 1 MB to HyperCard, and preferably 2 MB or more.

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Technical note:

HyperCard has its own memory management scheme where it swaps cards, code resources and compiled scripts in and out of physical RAM. That's how you can open a 20 MB stack on a 2 MB machine.

However, the more physical RAM available, the less HyperCard will need to repeatedly re-load data from disk, and the faster your stack will run. This is particularly important when performing repetitive data acquisition tasks. Therefore, allocate as much physical RAM as possible to HyperCard before launching WaveTrak. Although WaveTrak is fully compatible with virtual memory and 32 bit addressing, digitizing signals into memory which must be swapped back and forth from disk will result in gaps in your data. Use virtual memory only if you need a lot of memory for performing signal processing and analysis on previously acquired data.

Double click the stack named 'WaveTrak 1.4x'. In a moment you will be greeted by a graphic bearing the WaveTrak logo and version number. Click the mouse button to dismiss the opening screen. Please also read the formal licensing agreement at the front of this manual.