

HR2000 Software Operation

There are two programs available for running the HR2000 spectrophotometer both supplied by Ocean Optics. 'OOIBase32' is the standard operating software and is available for free for use in your home laboratory. You can find the download the program at:

<http://www.oceanoptics.com/technical/softwaredownloads.asp>

and the HR2000 manual at:

<http://www.oceanoptics.com/technical/hr2000.pdf>

The new software, 'Spectrasuite', is still at the development stage and currently retails at \$200. The OOIBase software is recommended for most standard applications.

The OOIBase32 software is capable of performing standard single spectrum acquisitions and continuous measurements up to 10Hz (depending on integration time). The latter suffers from small 1-2 sec data breaks when the files are written to disk. This software allows real-time monitoring of up to 6 spectral channels which can be defined by the user.

The Spectrasuite software is capable of High-Speed data collection up to 80Hz (with 3s integration time) but this currently requires a cumbersome process and is still under development. It is possible to collect up to 30,000 spectra directly to memory and then output as a single matrix file.

OOIBase32

1. Connect USB from HR2000 to laptop PC
2. Switch on PC and login as 'Microspec Users', no password is required
3. Create your own directory in the 'Microspec Users' folder on the desktop
4. Click on the OOIBase32 icon on the desktop to start the program
 - a. The live spectrum should be visible as a red line
 - b. You can autoscale the y-axis

