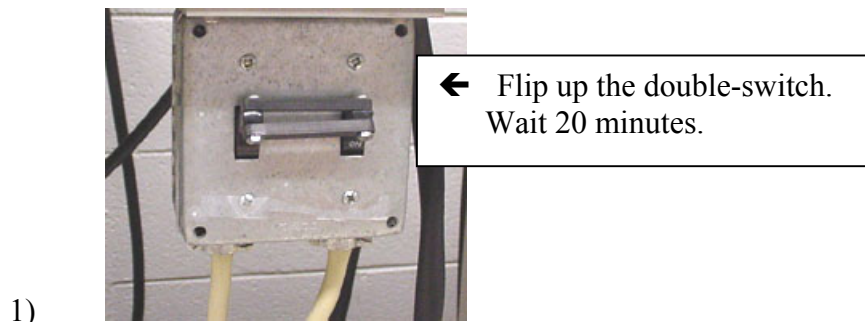
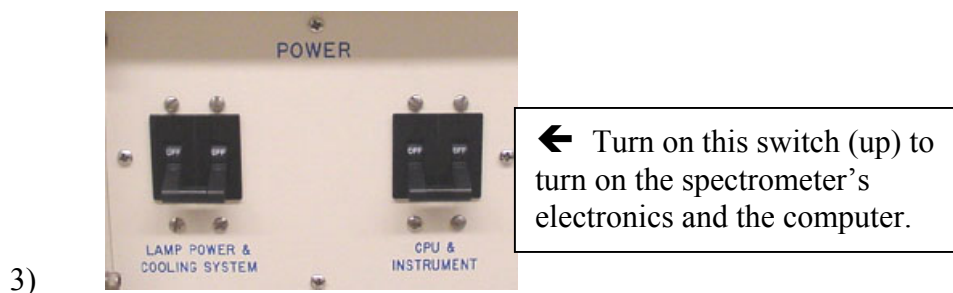
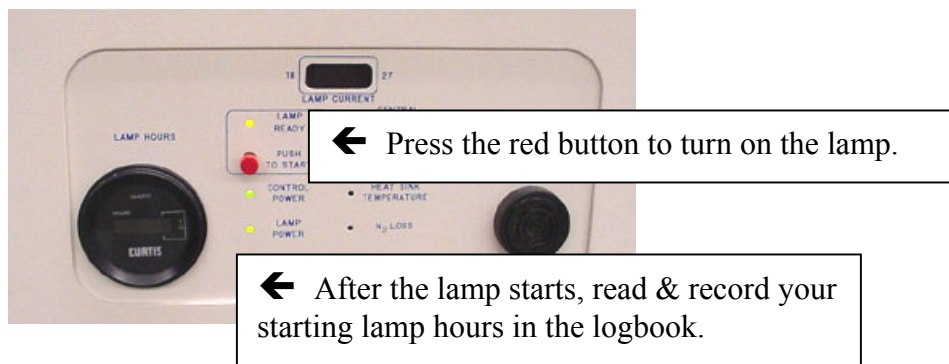


Aviv Circular Dichroism Spectrometer User's Booklet

To startup the CD spectrometer, do the following steps:

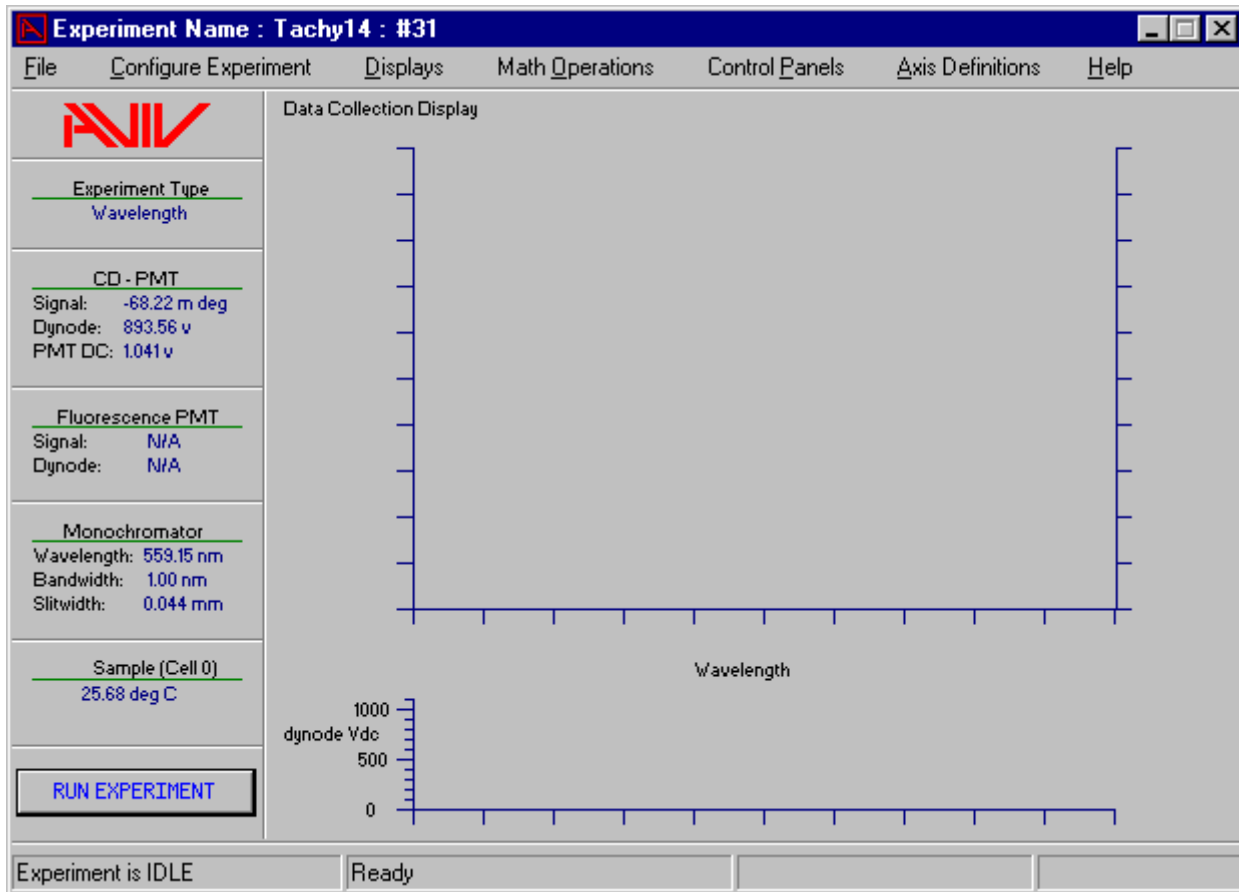


2) After 20 minutes, you will hear a click, and the lamp power supply lights will come on. When the “lamp ready” light is on, you can turn on the lamp.



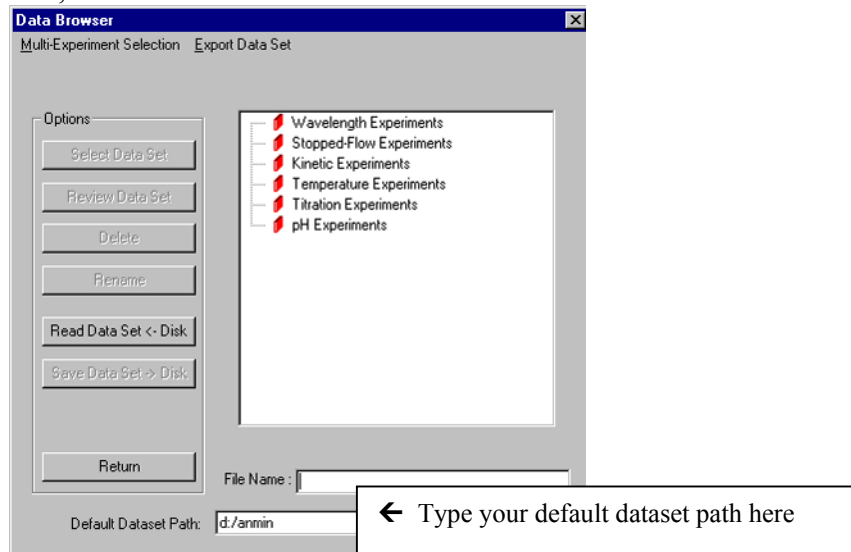
4) After the computer starts up, log into Windows NT with your username & password.

5) After Windows NT starts up, log into Aviv with your username & password. After the software launches, the instrument will initialize, and you will see this page:



How to set up for data acquisition

- 1) Click on the “Displays” menu, and then click on “Data Browser”. You will see the following page:



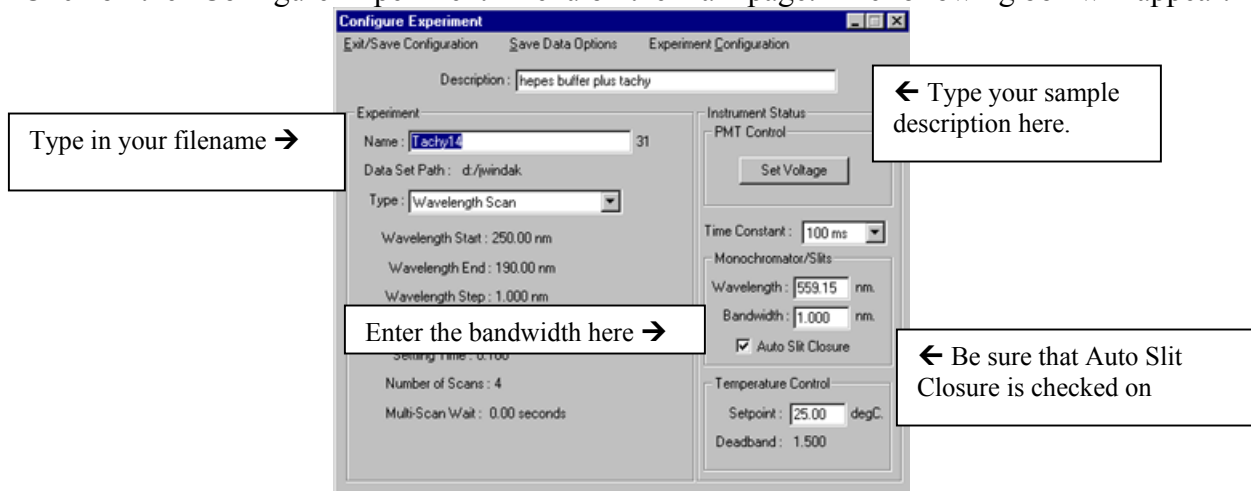
Near the bottom, you can reset the Default Dataset Path, by typing in d:/ and the name of your folder. Then press the Enter key.

Please Note:

You must press the Enter key after changing any parameter, or else the software will ignore the change.

Then you can close the Data Browser.

- 2) Click on the “Configure Experiment” menu on the main page. The following box will appear:

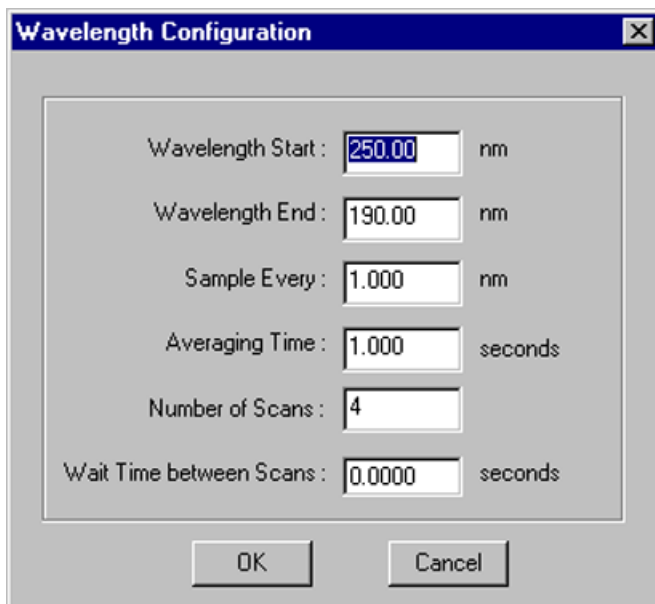


Enter a Filename, and a sample Description.

Set the bandwidth, usually to 1.000 or 1.500 nm.

Please be sure that “Auto Slit Closure” is checked on.

Then click on the “Experiment Configuration” menu, and click on Wavelength Configuration. The following box will appear, that will allow you to enter parameters such as your wavelength range, and the number of scans.

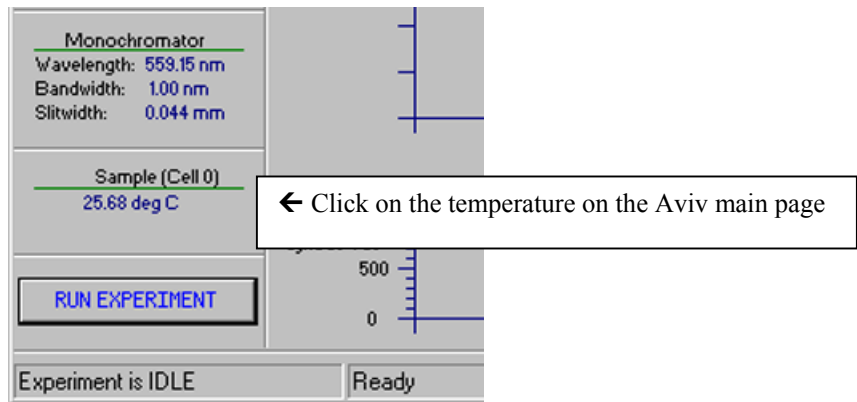


Please Note: You must press the Enter key after changing any parameters, otherwise the software will ignore the change.

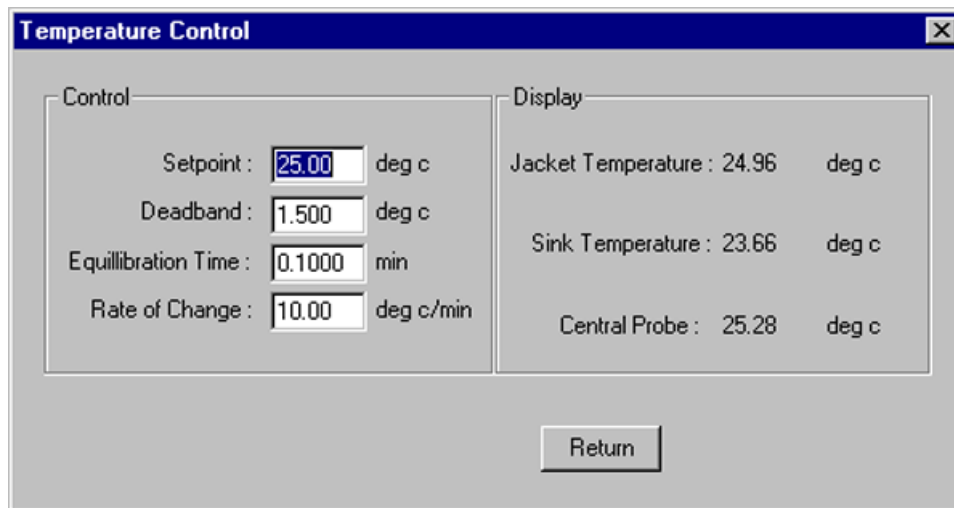
Click on OK to close this box.

Click on the “Exit / Save Configuration” menu to save changes and exit.

On the Aviv main page, click on the sample temperature, and the Temperature dialog box will appear.

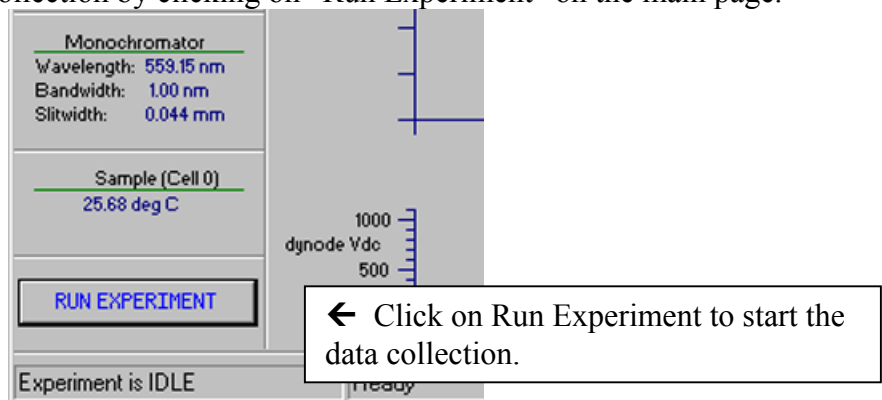


The following box appears, that allows you to set your temperature parameters:



Please Note: The allowed temperature range is $-10\text{ }^{\circ}\text{C}$ to $110\text{ }^{\circ}\text{C}$.

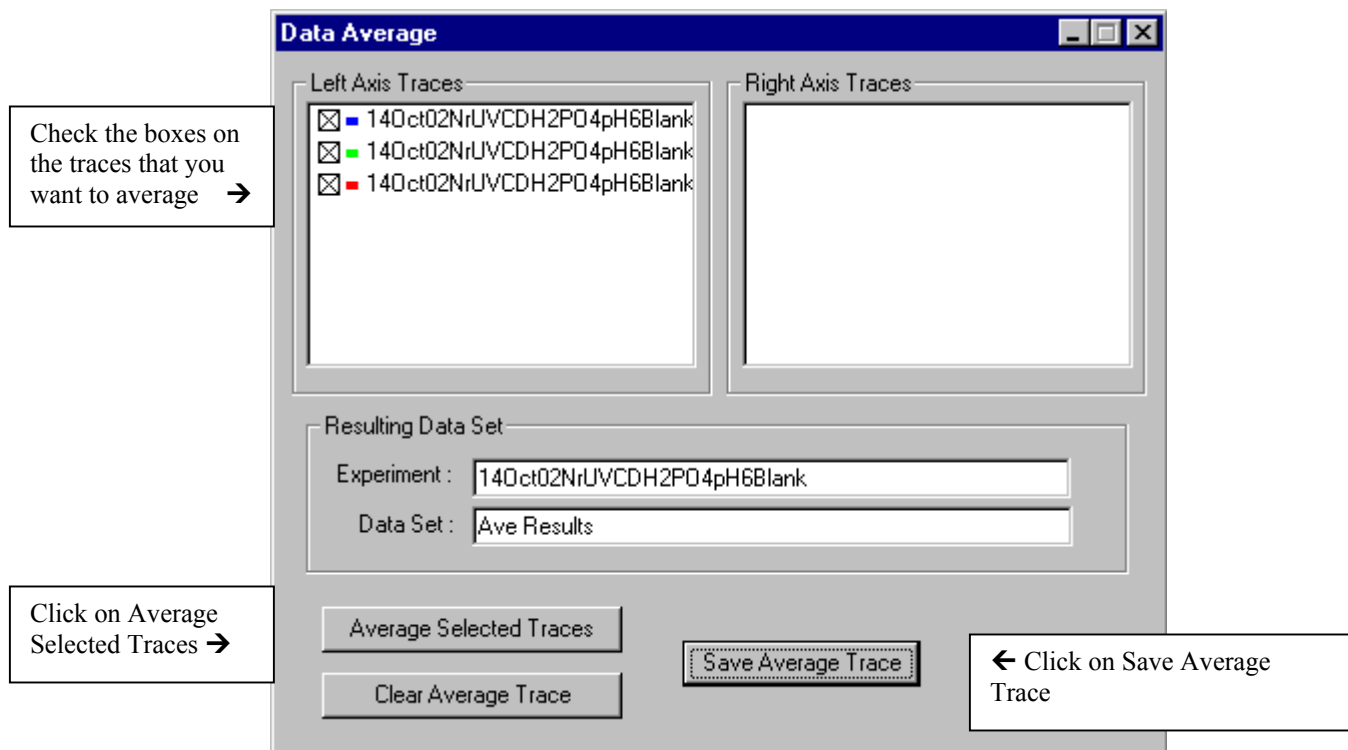
After you have inserted your sample into the sample compartment, and have allowed its temperature to equilibrate, you can start the data collection by clicking on “Run Experiment” on the main page.



When the data collection is finished, the software will prompt you to save the data. Be sure to save the data both to the data browser and to the computer’s hard drive.

How to combine multiple scans into one averaged spectrum:

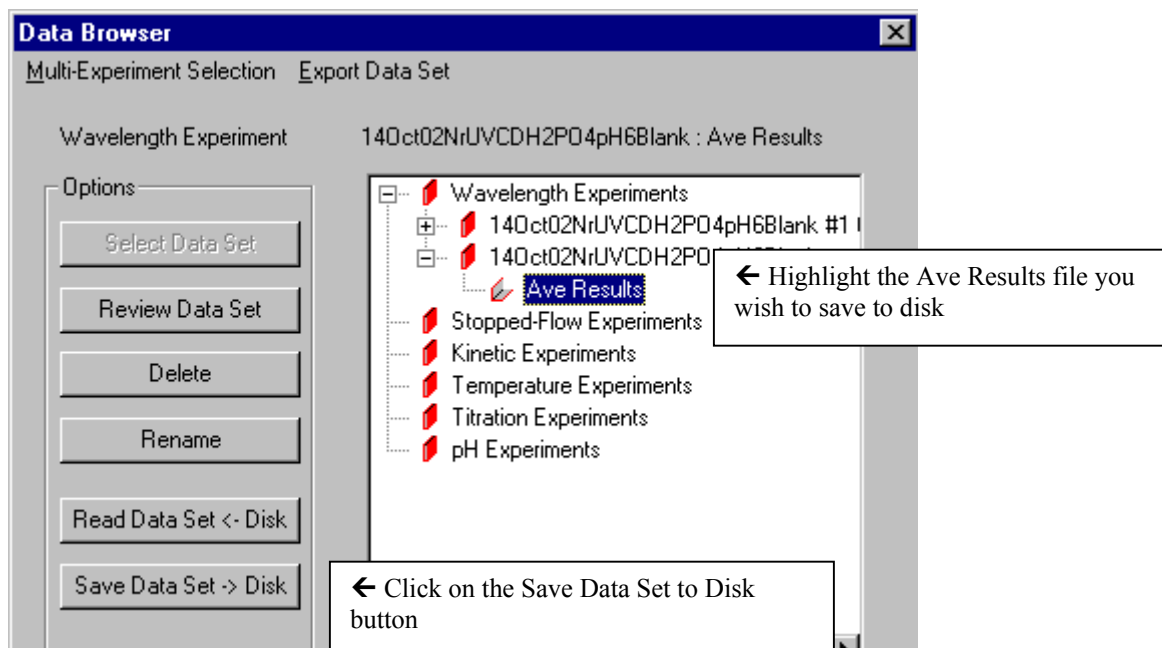
On the main page, click on the “Axis Definitions” menu, and click on “Data Average”. The following page will appear:



Check on the scans that you want to average, and then click on “Average Selected Traces”. After it averages the traces, you must then click on “Save Average Trace” to save it into the data browser.

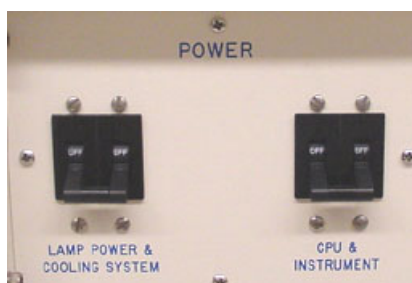
Please Note: This does not automatically save the average trace to the hard drive. You must go to the Data Browser to do this.

On the main page, click on the “Displays” menu, and then click on “Data Browser”. When the data browser comes up, expand the experiment containing the average results, highlight the “Ave Results” file, and click on the “Save Data Set to Disk” button.



To shut down the spectrometer, do the following steps:

- 1) Exit from the Aviv software. You will be prompted to save any data that has not been saved to disk.
- 2) Shut down the computer (Start Menu Button, Shut Down). Wait until Windows tells you that it is safe to turn off the computer.
- 3) Turn off this switch to turn off the computer and the spectrometer electronics.



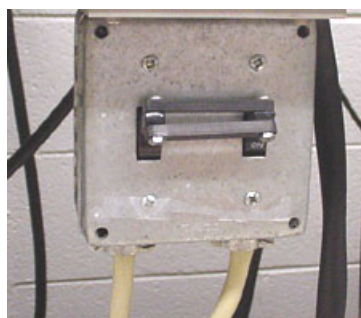
← Press this switch down to turn off the computer and spectrometer electronics.

- 4) Record your ending lamp hours in the logbook.

Read your ending lamp hours on the meter, and record the number in the logbook. →



- 5) Turn off the double-switch.



← Press this switch down.