

User guide for Cary 5000 absorption spectrometer.

(last updated 08/17/2018)

This guide is for use of the Cary 5000 with normal detectors. For use with the DRA as a see the User guide for Cary 5000 in absorption mode with DRA.

Important warnings!

- Do not unplug or plug in the external DRA attachment when the instrument is on. This will ruin the detectors of the integrating sphere
- Do not put white light into the integrating sphere to do not use the align command in the scan program.
- Wear clean gloves while using the instrument

Quick Start for using the Cary without the DRA

1. Turn on computer
2. Remove the DRA if it is in the instrument (see separate instructions). If you have not done this before with a GLA call the GLA to help.
3. Install one of the standard Cary bases with cell holders.
4. Make sure that the cover for the cell compartment is fully closed and turn Cary on.
5. Click on the Cary icon on the taskbar
6. Wait 20 minutes for the lamps to warm up.
7. Select **Setup**
 - a. set wavelength range, %T or %R
 - b. Under Options tab: set slit width and height, SBW to 2 nm, Detector and Grating change wavelengths
 - c. Under Baseline tab: chose zero/baseline
 - d. Under Storage tab: Set your filename
8. Put two clean matched cells in the spectrometer filled with solvent
9. Go to align to make sure the beam goes through the cells.
10. Choose **Baseline** and run 100% T and then when told block the sample beam at the entrance to Integrating sphere.
11. Put your sample in the sample cell.
12. Run **Spectra**
13. When done remove sample and remount reflectors.
14. Turn off Cary
15. Take of the standard Cary base out and reinstall the DRA.
16. Shut down computer.