

Tutorial: Configuring SpectraWiz as a Dual System (VIS+NIR):

1. Connect the VIS spectrometer (typically an EPP2000C or EPP2000-VIS unit) to channel 1 on the computer and connect the NIR spectrometer (typically an InGaAs unit) on channel 2.
2. Open SpectraWiz and go to Set-Up → Unit Calibration Coefficients and enter 1 at the channel prompt and enter the calibration coefficients for the VIS range spectrometer. Again, go to Set-Up → Unit Calibration Coefficients and enter 2 at the channel prompt and enter the calibration coefficients for the NIR range spectrometer
3. Next, go to Set-Up → Interface Port and Detector. Make sure that the USB2EPP is checked, and also check the box next to the correct LT option (usually LT-14 for the InGaAs unit).

NOTE: If you have both LT-12 and LT-14 spectrometers, SpectraWiz will only allow one to be checked-ALWAYS check the LT-14 box in this case.

4. For Channel 1 (VIS range) make sure the appropriate detector type is selected (typically CCD 2048 unless the spectrometer has the PDA upgrade.
5. Select Channel 2 (NIR range) and either select InGaAs 512 or InGaAs 1024, depending on which model is used. These can be found on the label on the spectrometer bottom.
6. It will be necessary to exit SpectraWiz and restart the software for the changes to take affect.
7. Before taking measurements, make sure that the correct spectrometer is configured on the correct channel. This can be done by illuminating each spectrometer with a white light source (such as the SL1). If configured correctly, the characteristic shape of each spectra will be seen:

NOTE: In Scope mode, the VIS channel (if REV6 or LT-12 electronics) will saturate at 4096 counts, while the NIR channel (if LT-14 electronics or higher) will saturate at 16385 counts. This will be seen whether or not the VIEW → Multigraph function is enabled.

8. The display can be modified so that the two spectra appear as one, rather than overlapping where one unit ends and another begins. Go to Set-Up → Spectrometer Channels → Multigraph Start-End. At the prompt enter 1 for Channel 1 and either enter a value which you would like to the first channel to start displaying (a value of 0 will default to the spectrometers original starting wavelength). At the next prompt, enter the ending wavelength for the first channel (again, a value of 0 will default to the spectrometers original ending wavelength).
9. Once Channel 1 has been configured, enter 2 to perform the same set-up for the NIR channel or enter 0 to exit the Multigraph Start-End mode.

