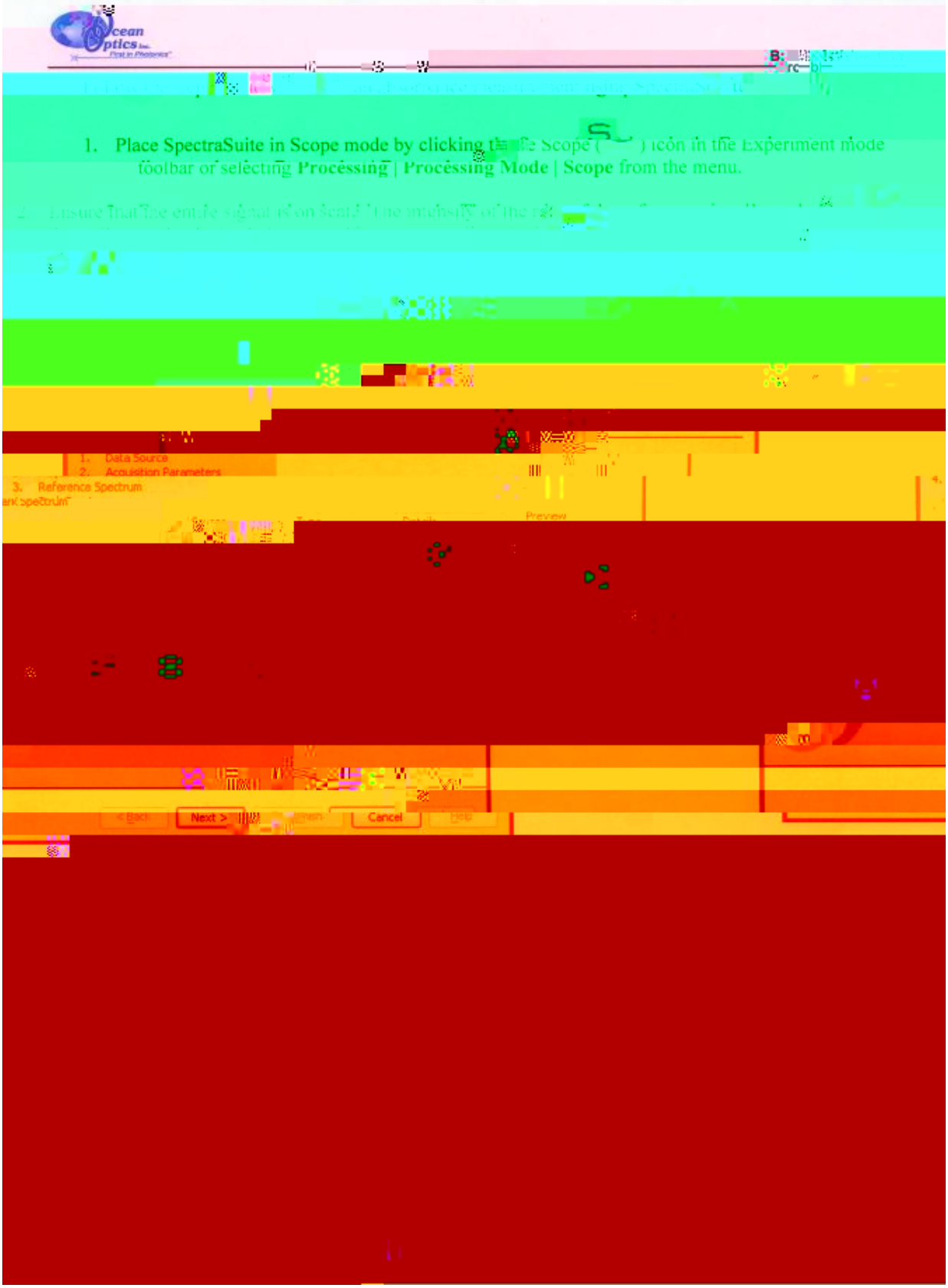
Absorbance Experiments

Absorbance spectra are a measure of how much light a sample absorbs. For most samples, absorbance relat

R_λ = Reference inte wavelength λ

cuvette holder (bottom center). The light interacts with the sam

1. Place SpectraSuite in Scope mode by clicking the Scope ( ) icon in the Experiment mode toolbar or selecting **Processing | Processing Mode | Scope** from the menu.



Steps
Set Acquisition Parameters wizard (2 of 4)
1. Data Source
2. Acquisition Parameters
Integration Time
Smoothing
Integration time:
100
milliseconds
Scans to average:
1
Enable
Width
Last peak value:
3210.0
Set Automatically
Advanced Settings...
Turn on the light source and set the integration time so that the peak value reaches the recommended level.
4000
3000
2000
1000

3. Reference Spectrum
4. Dark Spectrum
Value
0
0
1
Wavelength (nm)
Once the lamp is ready, press the button above to store a spectrum.

Absorbance Mode.

- The units listed on the Graph pane changes to **Absorbance (OD).**

10. To permanently save the spectrum to disk, click the Save Spectra ( ) icon on the toolbar.

Note

If you change any setting (e.g. integration time, averaging, smoothing, fiber size, etc.) you must store a new reference and dark spectrum.