



OceanART

Powered by Ocean Insight

**Software Quick
Start Guide**

The **OceanART** Software is intended to be an easily usable, clean and simple application for performing Absorbance, Transmittance or Reflectance measurements using Ocean Insight Spectrometers.

OceanART is compatible with Windows 7 and Windows 10 Operating Systems and the following Spectrometers:

- Ocean HDX
- Ocean FX
- Flame
- HR2000+
- HR4000
- Maya2000 Pro
- NIRQuest256
- NIRQuest512
- QE6500
- QE Pro
- STS
- USB2000+
- USB4000

Installation

Download the **OceanART Installer** from www.OceanInsight.com.

To Install **OceanART**:

- a. Double-click on the **OceanART_Installer_x64.exe** icon to begin the installation.
- b. Choose the folder where you want to install the OceanART software.
- c. A **shortcut to the OceanART** software will be created for you and added to your Start Menu and Desktop. The default Start Menu location is **Start |Ocean Insight | OceanART**.

Connecting a Spectrometer

- a. Plug your spectrometer into the USB port.
- b. If your spectrometer requires external power, plug it into a power source.
- c. If your spectrometer has an attached **Sampling System** (cuvette holder/light source) plug it into power as well.
- d. Start the software.
 - a. Click on the OceanART option on the Start Menu or the icon on the Desktop.
 - b. Your software will load and you will see live raw spectra.

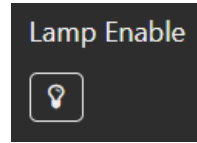
Tutorial Bar

- a. When you first run the software, a **tutorial bar** will appear near the top of the application.
- b. The tutorial will walk you through the process of properly taking your first measurement.
- c. If you don't wish to see the Tutorial Bar, you can **click the 'Hide' button** to hide it.
- d. If you want to restart the tutorial at any time, you can select it from the **View -> Enable Tutorial** menu item.

Preparing for Measurements

Take Reference

- a. Do you have a software controllable lamp directly attached to your spectrometer?
 - a. If yes, click the **Lamp Enable** button to turn on your lamp.
 - b. If not, manually open the shutter on your light source.
- b. Click the **'Take Reference'** button.
- c. If **"Auto"** is checked next to **Integration Time in the Settings Bar**, the software will automatically find the optimal integration time for your configuration.



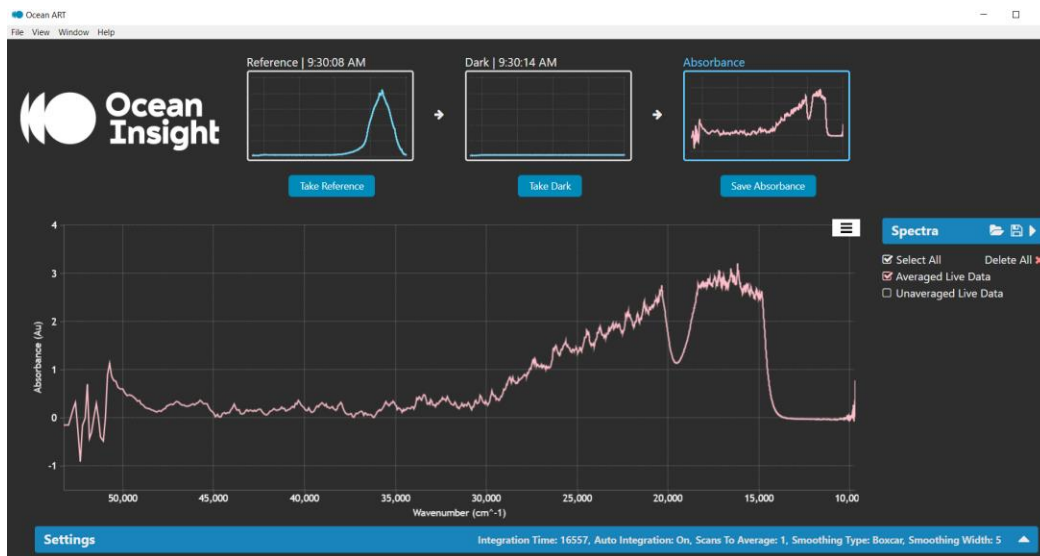
Take Dark

- a. Do you have a software controllable lamp directly attached to your spectrometer?
 - a. If yes, click the **Lamp Disable** button to turn on your lamp.
 - b. If not, manually close the shutter on your light source.
- b. Click the **'Take Dark'** button.

Taking Measurements

Once you have taken a reference and dark measurement, click on the **Absorbance/Transmittance** thumbnail at the top right to switch to the calculated measurement view.

1. Put your sample in place.
2. Click **Save Absorbance**. You will see a new item appear in the **'Spectra'** list to the right.



Settings Bar

*** Note: If you change your integration time, you will need to take a new reference and dark at this new integration time.

When collapsed, the Settings Bar will display your current settings for reference. To change any of these settings, **click on the triangle** on the rightmost side of the bar to expand the **Settings Bar**.



Once a setting is changed, the new value will automatically be set. If the new value is outside of the bounds for that setting, a warning box will appear until the value is brought back within the proper bounds.

Integration Time: If "Auto" is checked, the integration time will automatically be set when a Reference measurement is taken. If the "Auto" box is unchecked, the "Integration Time" field will allow user input.

Scans To Average: This value will take the number of measurements specified and average them before displaying on the plot.

Lamp Enable: This button will allow you to manually enable / disable the shutter on your lamp.

Smoothing Type: This drop-down box will allow you to enable / disable boxcar smoothing on your plot

Smoothing Width: The extent to which you want to smooth the plot.

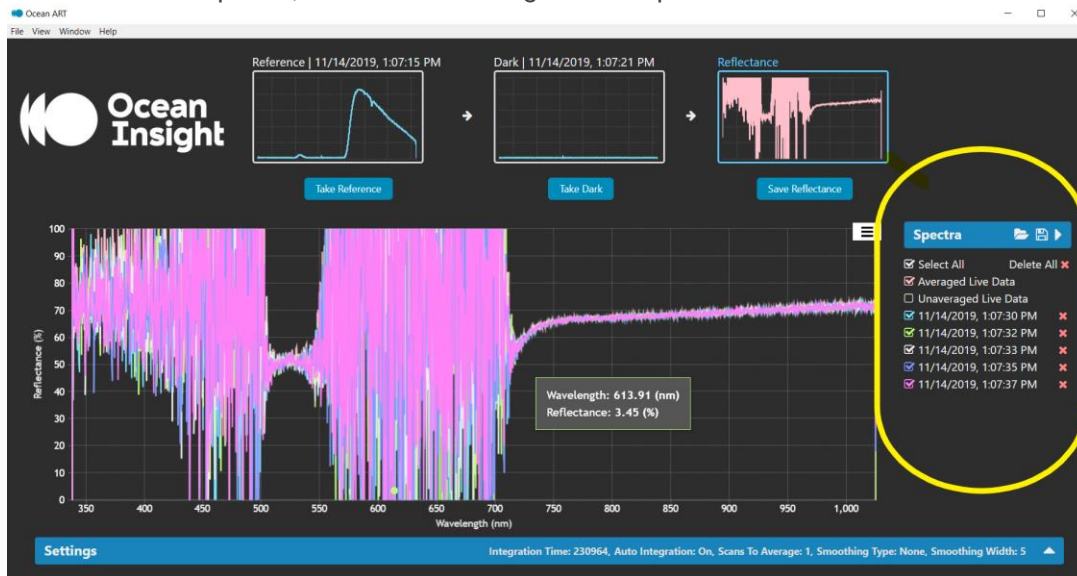
Calculation Type: The type of the calculation that will be performed on the measured data.

Horizontal Axis: Select whether you would like the X Axis to show values in Wavelength or Wavenumber.

Spectra Bar

The Spectra Bar allows you to show / hide / delete spectra within your current session.

- **Averaged Live Data:** This shows the most recent Spectra. If 'Scans To Average' is greater than 1, it will not be updated until all spectra have been acquired and averaged.
- **Unaveraged Live Data:** If 'Scans To Average' is greater than 1, this will show the current spectra that is being averaged.
- When calculated files are added to the session, they will be added to the Spectra Bar as well.
- To **show / hide spectra**, toggle the check box to the left of the spectra's label. If you wish to delete a spectra, **click the X** to the right of the spectra's label.



Session Files

A session file contains all the information from your current session, including: integration time, dark measurement, reference spectra, and any saved spectra you have taken.

*** Note: If you close and reopen the software within a 24-hour period, your last session will automatically be loaded at startup.

Session button on the Spectra Bar.

You can also load any saved Session File by selecting **File | Load Session** in the Menu or clicking the **Load Session button** on the Spectra Bar.

Copy to Clipboard

If you choose **File | Copy To Clipboard**, or click **Ctrl ^ C**, your latest spectra will be copied to the clipboard.



Questions?

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