

- To ready the instrument to use:

Temperature controller

Power on the temperature controller,

Then open the **T-App** on desktop,

Check '**Control Status**' on.

Turn on the fluorometer instrument

Light will turn green when it's ready to use,

Open fluorometer software '**Lab Solution RF**' and choose '**Spectrum**' for emission and excitation study,

Click '**Connect**' to connect the instrument to the computer.

- Emission or Excitation Study

To set up software acquisition:

Click '**Settings**' on the right bar,

Under '**Measurement**': Choose spectrum type: Emission or Excitation

Emission setups:

- ➔ Excitation wavelength,
- ➔ Emission: Start/End wavelength,
- ➔ Data interval,
- ➔ Scan speed.

Excitation setups:

- ➔ Emission wavelength,
- ➔ Excitation: Start/End wavelength,
- ➔ Data interval,
- ➔ Scan speed.

Under '**Instrument**':

Spectral Bandwidth sets as default,

Sensitivity sets as auto (or change as needed),

Then lick '**OK**'.

- File setting route

Check Set filename automatically to automatically name file and sample or

Uncheck then name file and name sample

- Running a sample

Load sample in and click **'Start'** to start measuring (light turns blue when the instrument is in use)

- Spectrum

Spectrum pop out when finish scanning

Peak pick: under **'Operation'**, pick the spectrum area and click **'execute'**.

Integration: under **'Operation'**, choose 'Peak Area' to select peak area to do integration, then click **'Add'**.

Click **'Measurement'** when needs to go back and continue measuring.

- Turning off instrument

Click **'Disconnect'** to disconnect instrument to computer,

Power off the fluorometer,

Then close T-App, uncheck **'Control Status'**,

Then turn off the temperature controller.