

Dual Channel Acceleration vs Time with SpectraDAQ-200

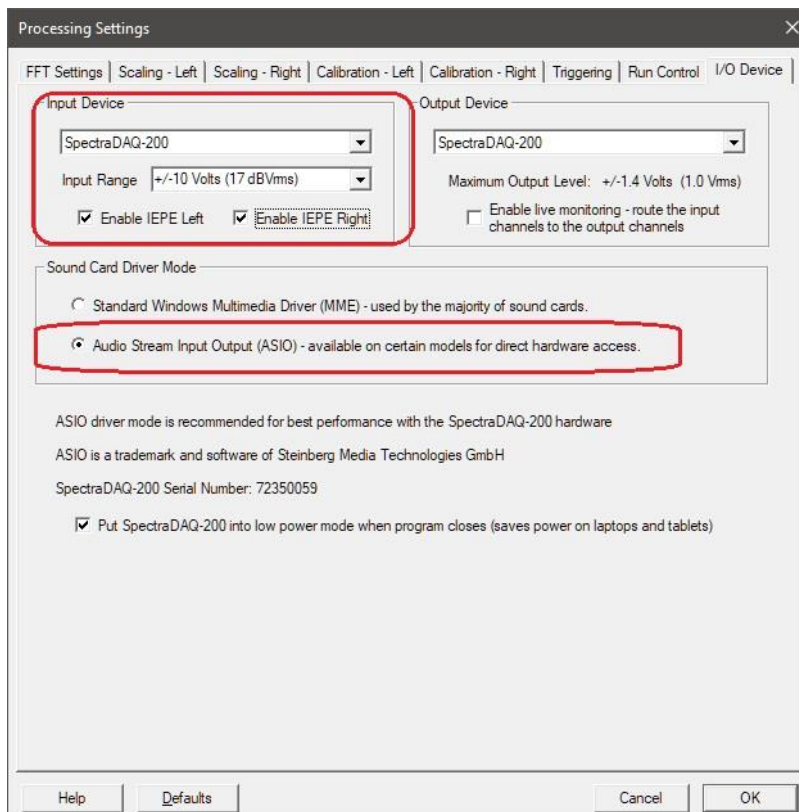
Open SpectraPLUS-SC

Click <Config><Load Configuration> menu and select:

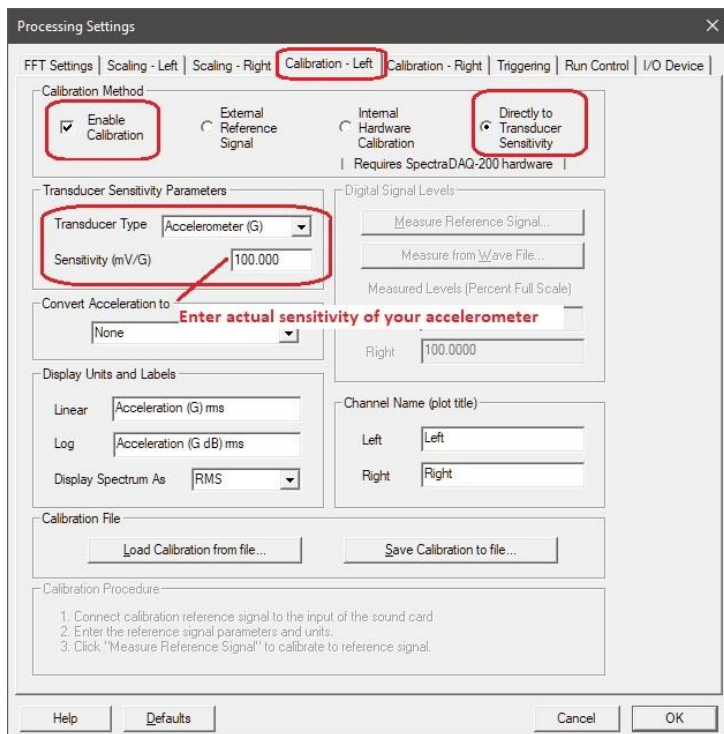
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Click the <Options><Processing Settings> menu

Go to the “I/O Device” tab and select the SpectraDAQ-200 as the input device. Enable IEPE power if your sensors require this.



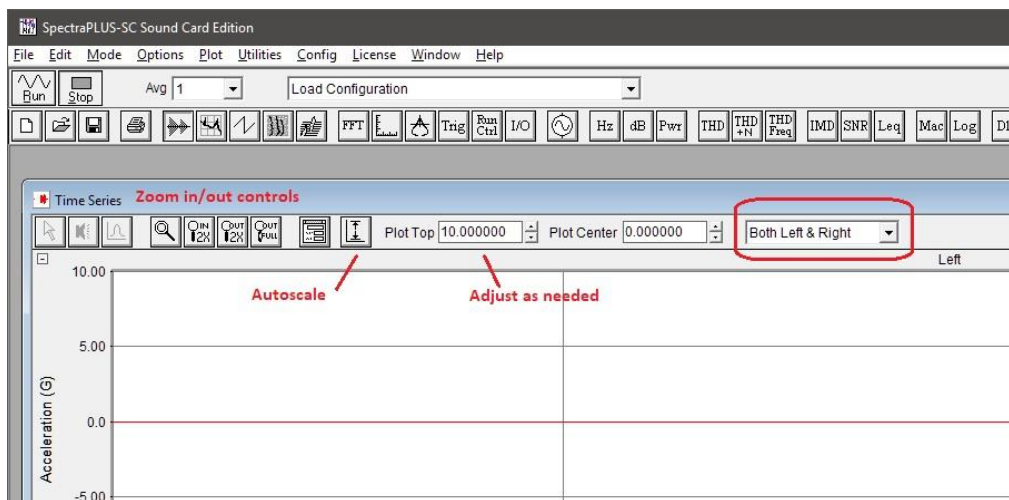
Go to the “Calibration – Left” tab. Enter the specific transducer sensitivity for the accelerometer that you have connected to the Left channel (1) of the SpectraDAQ-200.



Go to the “Calibration – Right” tab and repeat the steps for the accelerometer connected to the right channel (2) of the SpectraDAQ.

Press Ok to close the processing settings dialog box.

Press the “Run” button on the main application toolbar to start processing data. Press the “Autoscale” button or enter the Plot Top value to best view the acceleration wave form.



This will allow you to continuously monitor the acceleration data in real time. Change to the <Mode><Recorder> will allow you to record the data and save it to a file. Use the <Mode><Post Processing> menu to open existing files for post analysis.

Analysis tips:

Right click on the time series plot and choose the <Select All> menu.

Right click again and to analyze the selected time segment. Some useful commands are:

<Compute RMS, Max Min and Peak to Peak levels> - quickly compute the RMS level etc.

<Export Peak Values to Text file> - quickly find all the peaks above a threshold. Pastes nicely in Excel.

<Compute and Display Average Spectrum> - computes the spectral data and opens it in the spectrum plot.

See <https://www.spectraplus.com/Videos.htm> for helpful tips and demos