

Setting up SpectraPLUS-SC with a Digiducer integrated accelerometer

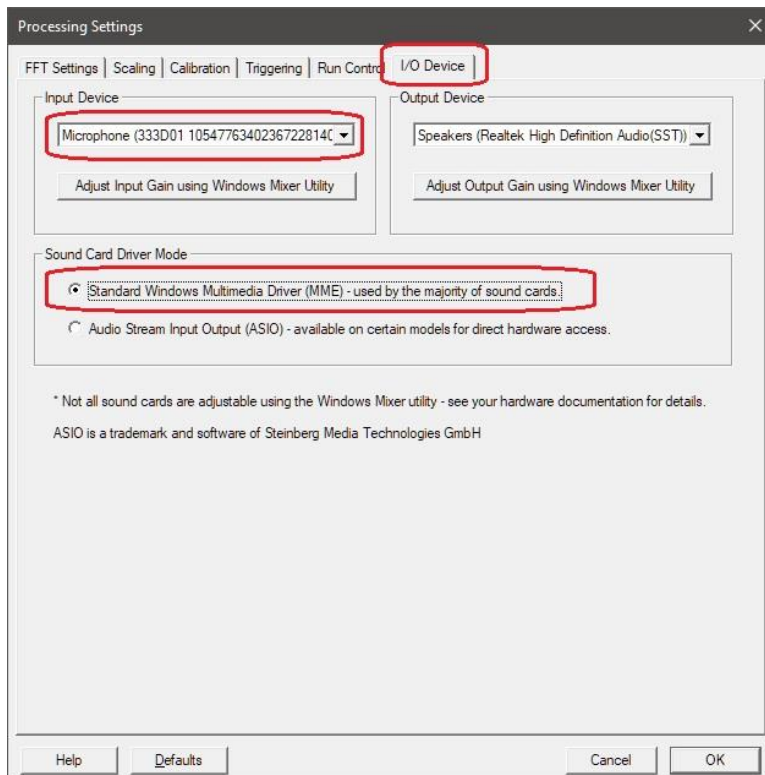
Open SpectraPLUS-SC

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

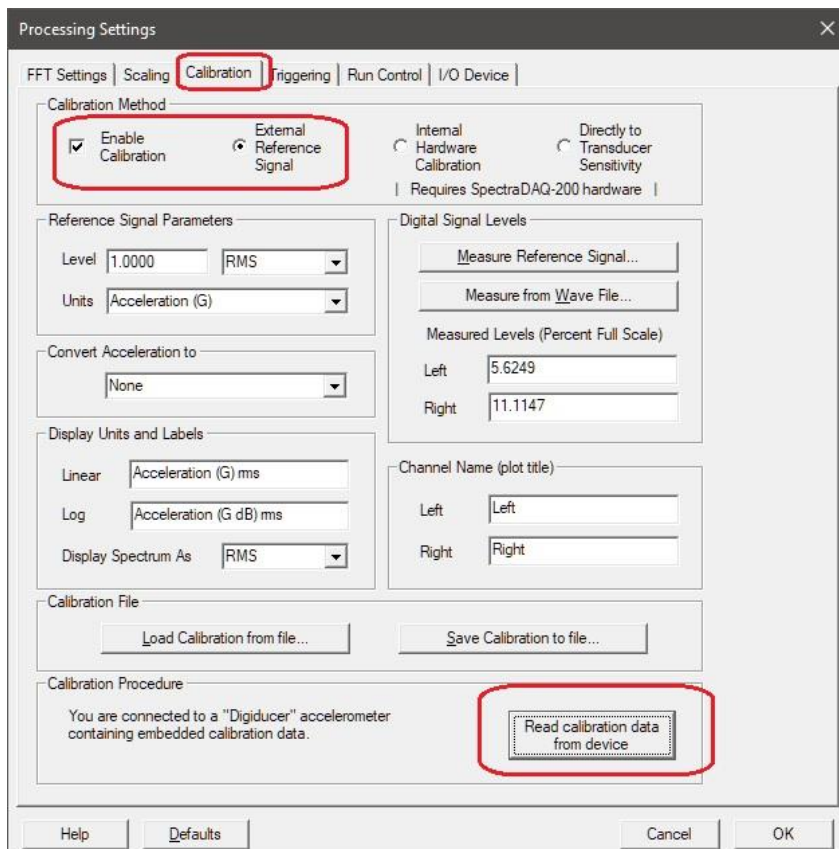
Digiducer Example.cfg

Click the <Options><Processing Settings> menu

Go to the “I/O Device” tab and select the Digiducer as the input device. It will be labeled (Microphone (333D01 NNN...))



Go to the “Calibration” tab. Set the calibration method to “External Reference Signal” and then press the “Read calibration data from device” button. This will read the embedded calibration data from the Digiducer and apply it.



Press Ok to close the processing settings dialog box.

Press the “Run” button on the main application toolbar to start processing data. The screen shot below shows plots of the average acceleration spectrum as well as the acceleration vs time waveform.



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 plot and choose the <Copy as Bitmap> menu. Then paste the plot image into Word/Excel or other application for creating reports.

Right click on the Spectrum plot and choose the <Copy as Text> menu. Then paste the underlying spectral data into Excel for further analysis or custom plotting.

The Overlay controls located on the right side of the plot allow you to create static traces of the current spectral data for comparison purposes.

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