



Software Solution  
**Dynamic Data Acquisition**

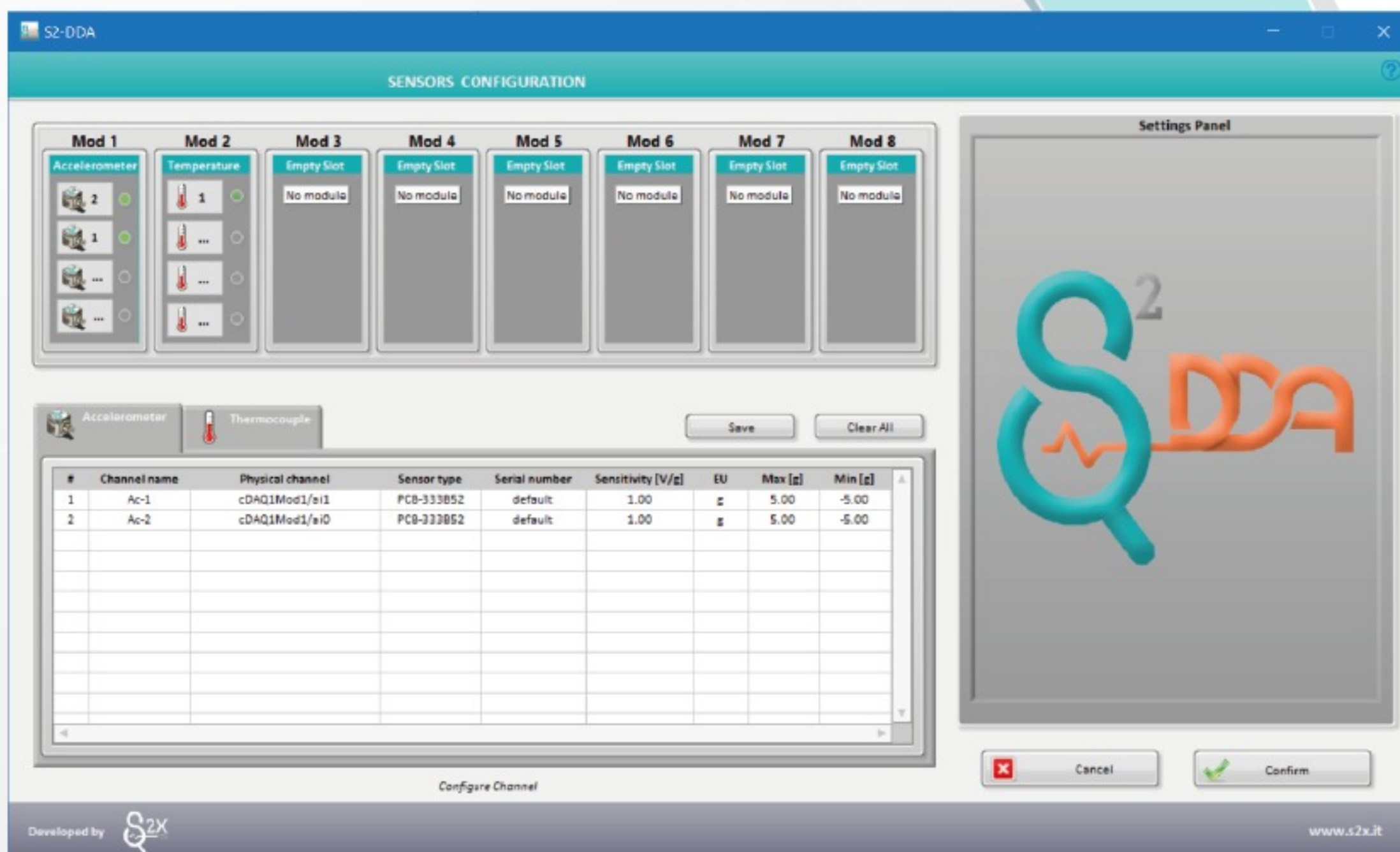




## Software Solution - Dynamic Data Acquisition

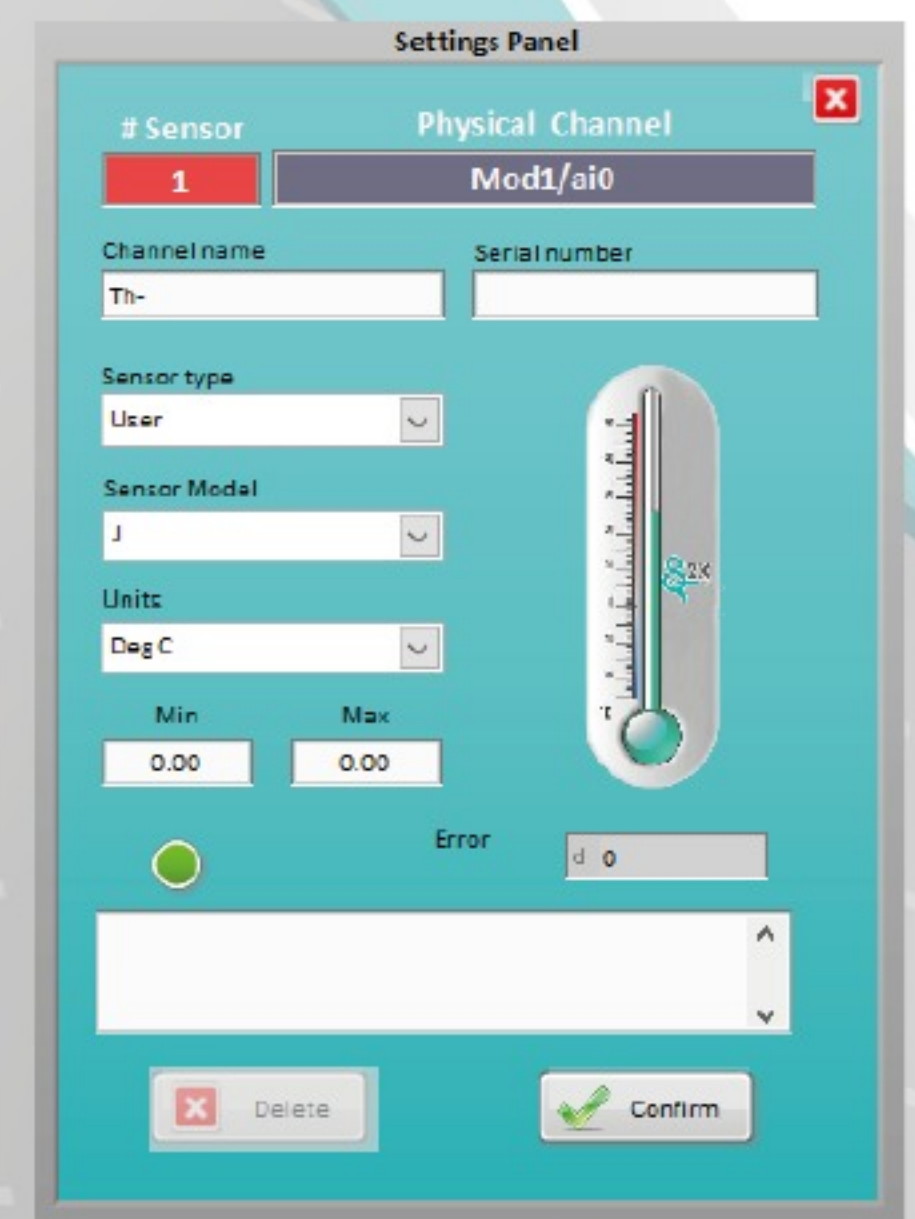
**S2 - DDA** has been developed to make dynamic data acquisition for testing and/or structural and seismic monitoring very fast and easy.

The software is accompanied by a modular data acquisition equipment for acceleration and temperature measurements, fulfilling, among other codes and guidelines, the recent Italian Guidelines for risk assessment and classification, safety evaluation and monitoring of existing bridges. S2-DDA and the accompanying data acquisition system are fully scalable and customizable according to specific user needs.



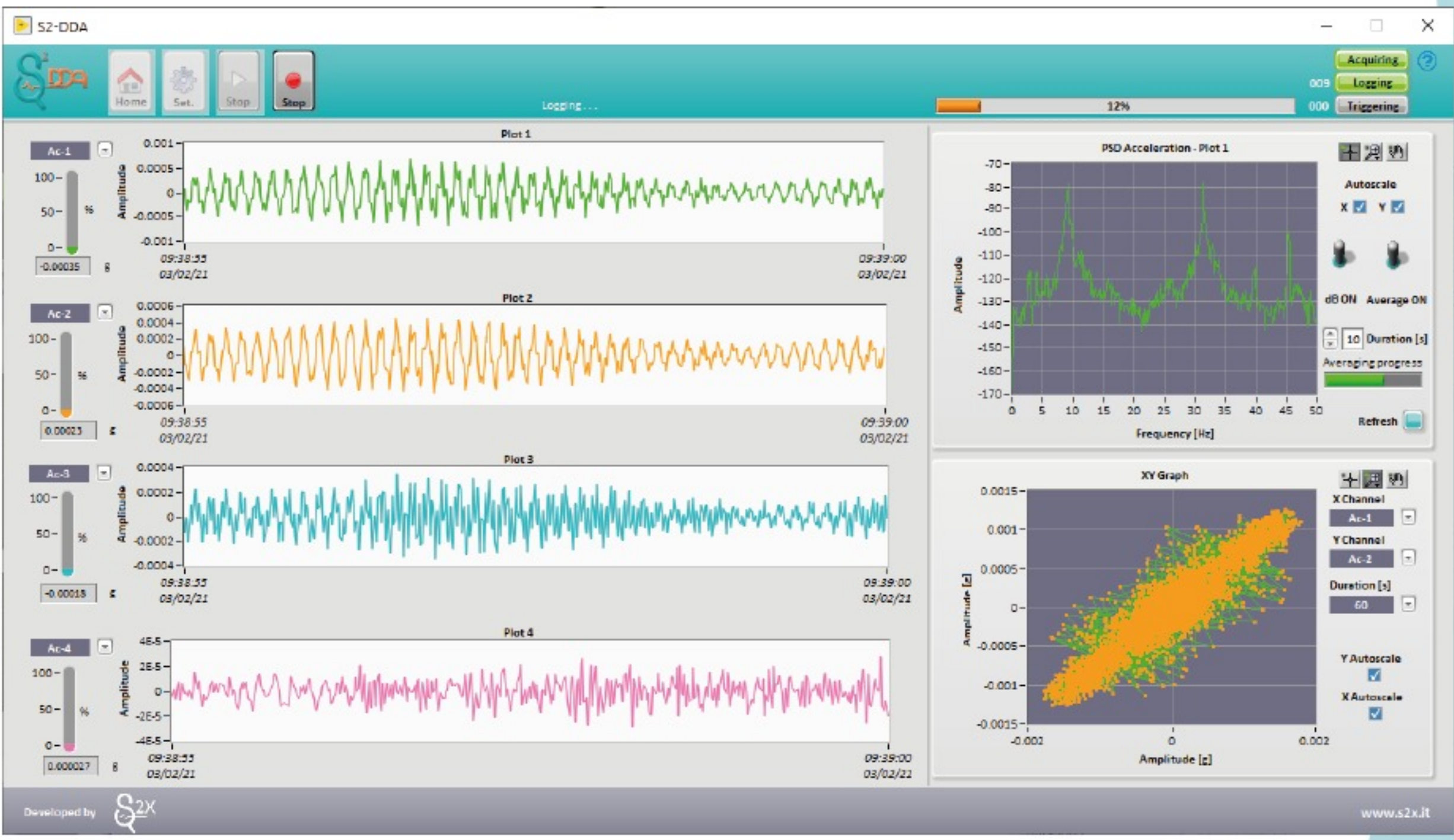
S2-DDA is also able to manage multiple data acquisition systems organized in a distributed architecture with master-slave synchronization.

Startup settings are very fast and easy, thanks to the possibility of creating a database of sensors or by saving previous settings. Continuous as well as threshold-based data acquisition are supported.





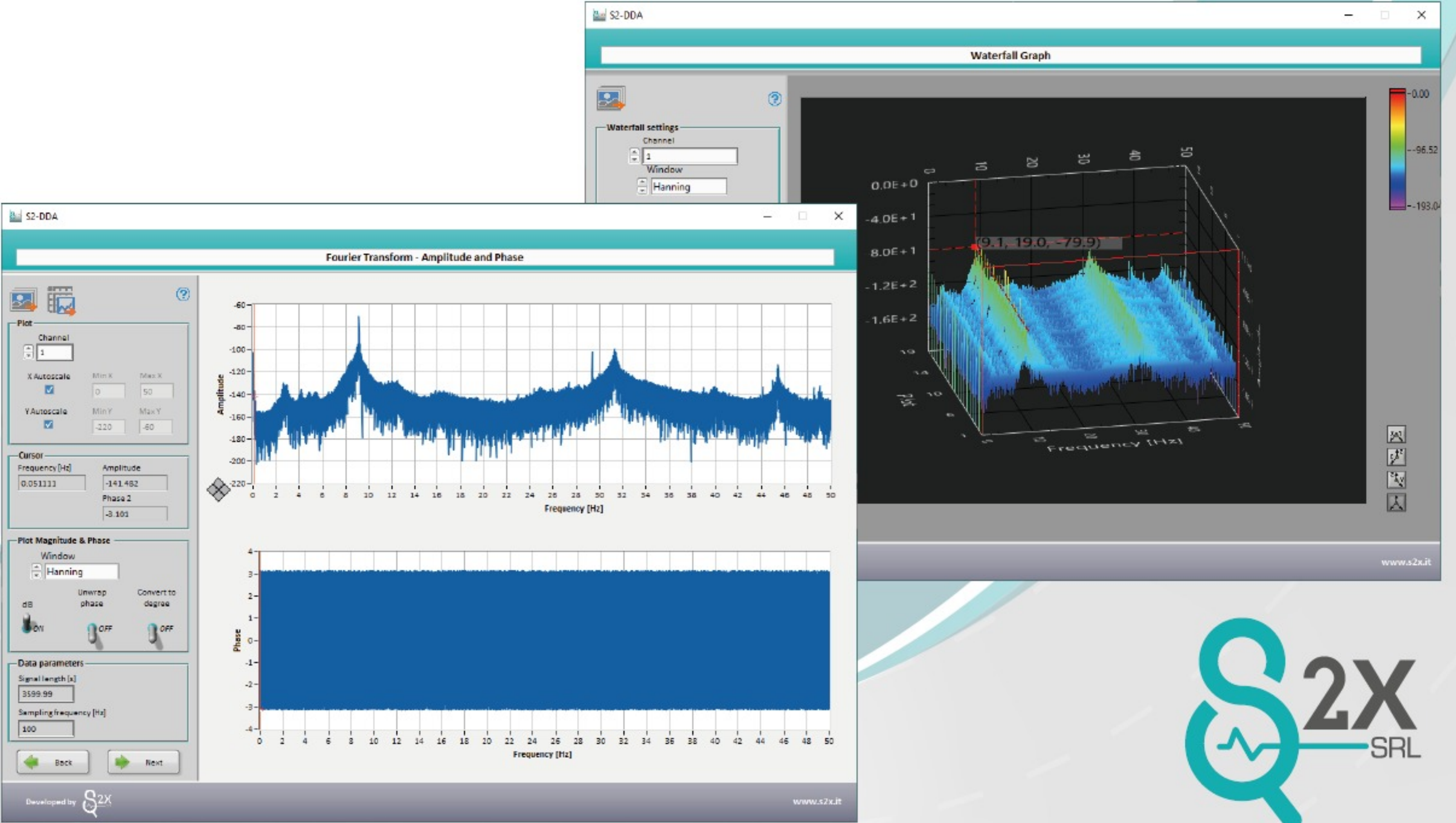
Continuous streams are plotted and analyzed for in-situ checks.



### Software Solution - Fast Fourier Transform

**S2 - FFT** is the add-on module (available also in stand-alone version) of S2 - DDA to quickly analyze vibration signals.

The user can inspect the collected time series, apply a window, filter the signals, compute the Fast Fourier Transform and plot its amplitude and phase, pick the dominant frequency components, and check the signal for stationarity. It is a simple but effective tool for a preliminary analysis of signals collected in the field, including vibration measurements and monitoring of the dynamic response of structures.







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