



DX is an easy to use, graphical, signal processing environment that simplifies analysis and reporting of dynamic data. DX includes everything needed to process data for a variety of applications and industries in a very intuitive, drag-and-drop user interface. Generate fully-interactive engineering plots from one or more tests and create reports in just a few mouse clicks.



**NO PROGRAMMING REQUIRED!**

## APEX Offline Signal Processing & Analysis

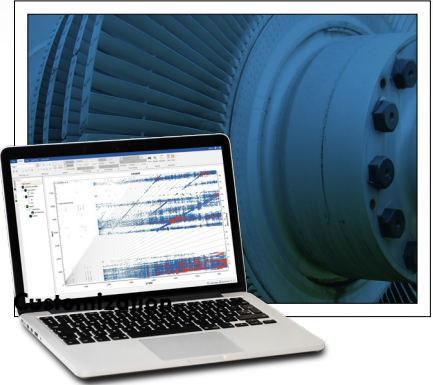
High performance post-processing application for time, frequency, and order domain analysis

Super-easy drag and drop user interface for sophisticated engineering analysis

Create a repeatable, documented, easy to execute process with the unique “Process Designer” and “View Canvas” user interface

Processes large amounts of data quickly and efficiently

- Simultaneously process multiple files
- Multi-threaded for maximum processing throughput
- Utilizes memory mapped technology for near instant plotting of processed data

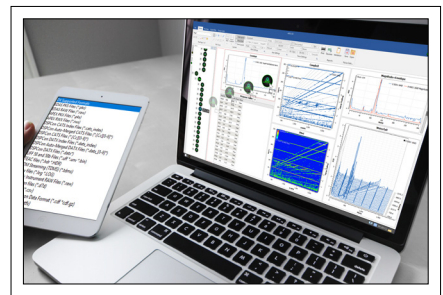
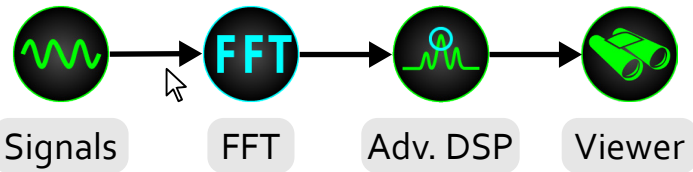


### Digital Filtering

Includes IIR and FIR low-pass, high-pass and band-pass digital filters, and FFT-based filters

### Automated Response Detection

Filter large data sets using APEX proprietary collection methods for “Big-Data” trending



### Supports a wide variety of file formats

- APEX Data Acquisition .pkx, .rwx
- DATX Data Acquisition .datx, .datx\_index, .cats
- Pacific Instruments .raw
- National Instruments .tdms, .tdm
- MATLAB Binary .mat
- Universal File Format 58& 58b .uff, .unv, .bin
- Sony Data Acquisition .BIN
- TEAC Data Acquisition .DAT
- ATFX Data Format .atfx
- CDF Data Format .cdf

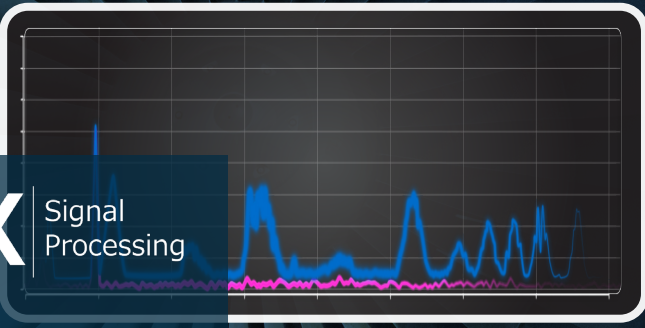
### Process Driven – Same Results Every Time, From Any Engineer

Acquire hundreds of channels with simultaneous sampling and analyze the data in real-time

### Analyze, Filter, Export dynamic data from one or multiple tests

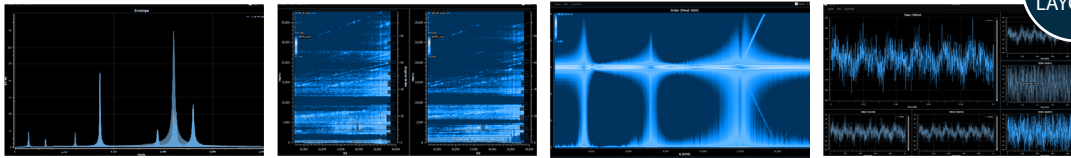


Signal Processing



## The Easiest Way To Do Signal Processing And Analysis Of Dynamic Data.

Once processed, all data can be viewed within the environment on a wide range of engineering plot types including oscilloscope, spectrum, spectrum envelope (peak hold), Campbell diagram, bode, z-mod, order z-mod, order tracking and history.

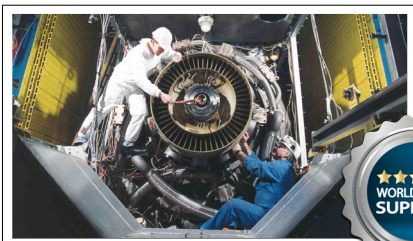


All Plots are fully interactive and can be zoomed, and panned. Overlays are done seamlessly so that you can easily understand what has happened in the test.

Link plot axes together for synchronized replay and to interactively zoom, pan, and interrogate data on any engineering diagram.

Order domain analysis with Rotating Machinery Toolkit. Perform temporal (FFT) and spatial (Order) analysis. Accurately calculate phase and magnitude as it relates RPM.

Create customizable, formatted engineering reports with 1-click. Export data to a variety of other formats for use in Matlab®, Excel, or the APEX DV free viewer.



### Onsite Training

We've moved much of our know-how to the real time environment where we help guide critical test decisions and get a head-start on the final analysis.



### Batch Processing

This type of processing allows for numerous simultaneous file processing.



FFT ANALYSIS



OPEN FILE FORMATS



ROTATING MACHINERY



CUSTOM REPORTS



DIGITAL FILTERING



ENGINEERING PLOTS



FLEXIBLE LICENSE

