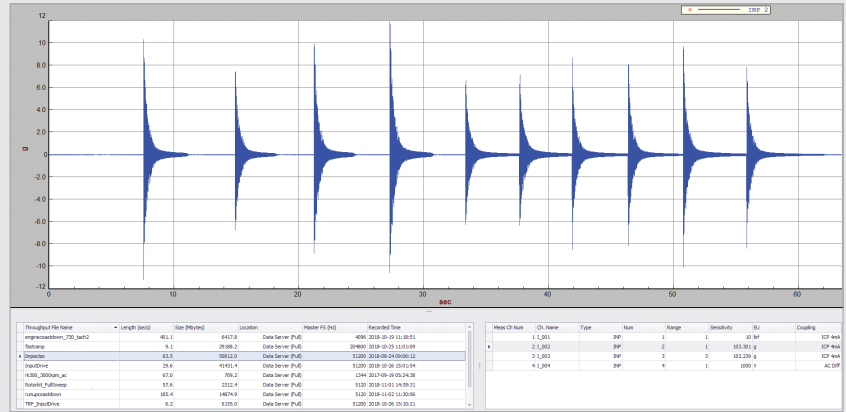


Recording and Playback Analysis

DP930-23

The Recording and Playback Analysis option for the 900 Series software offers the ability to record data at up to 200 k samples/second to the local disk. Recording can be done simultaneously with real-time measurement or control and the recording sample rate can be independent of the measurement sample rate.

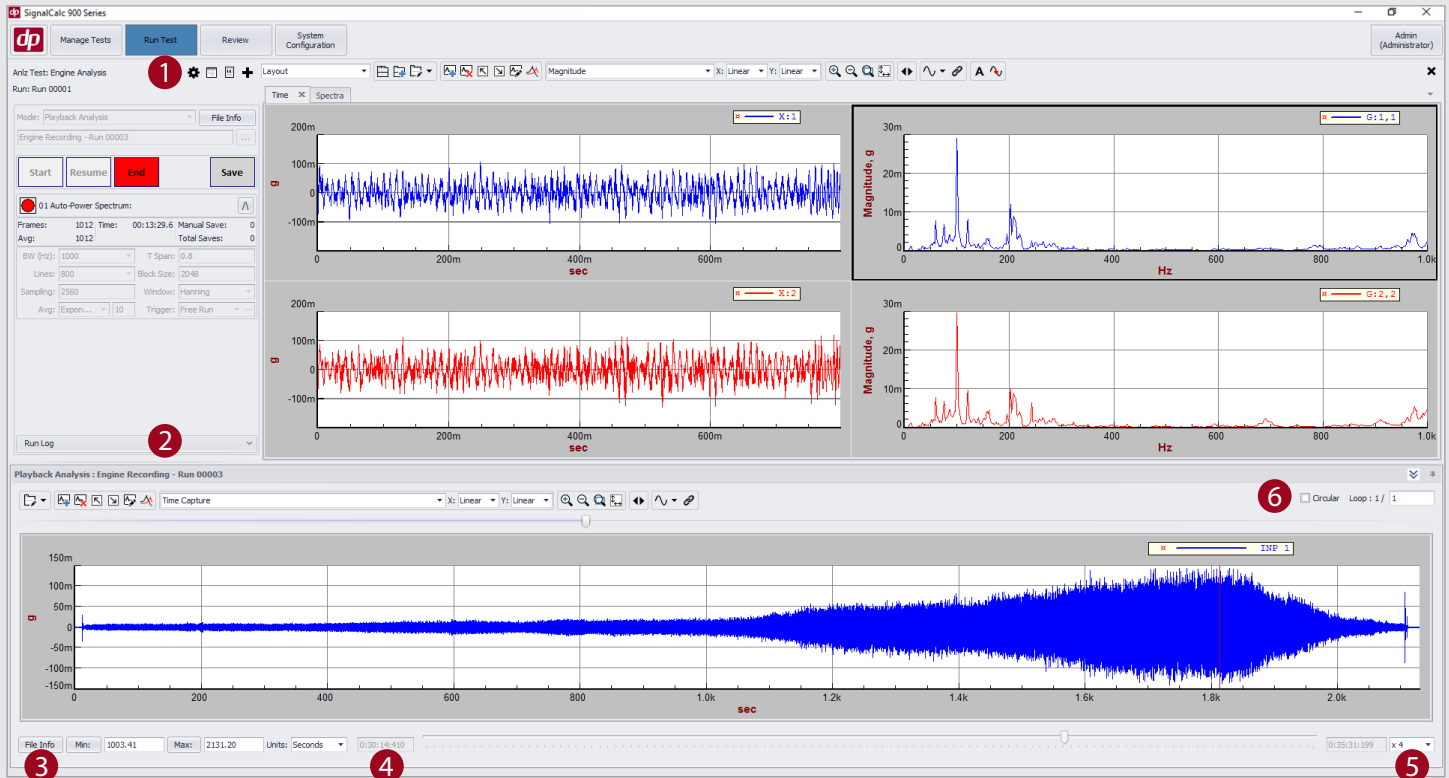
Recorded data can be analyzed using the same measurement type or with a different measurement type. Analysis can be done at any sample rate, up to the recorded sample rate.



Features and Benefits

Feature	Benefit
Simultaneous recording and measurement	Measurements can be made during recording reducing the amount of time spent post-processing recorded data
Independent recording sample rate	Recording sample rate can be same or different from measurement sample rate
Local recording to solid state drive (906)	Local recording to solid state drive (500 GB) ensures the highest possible sample rate for gap-free recording
Automatic start and stop recording using events	Event-based start and stop recording ensures that the desired data is captured
Circular recording	Circular recording ensures that important time data is saved at the end of the test without having to record for the entire measurement duration
Recording of Drive and Math channels	Drive channels can be automatically recorded without requiring teeing the drive signal to an input channel, freeing up that channel for additional measurements
Playback analysis using same interface as measurement	Use same interface ensures that all of the features available for live measurements are available for playback analysis. The common interface simplifies the task of analyzing recorded data
Independent selection of channels for playback analysis	Playback analysis is simplified by allowing analysis of only required channels from a multi-channel recording
Live graph of recorded time data with cursor during analysis	Easily identify events in time data and set start and end of analysis time
Multi Recorder Capability	Enables the user to select different sampling rates in each recorder with auto export of recorded files to Matlab, UFF, DFS, etc.
User-defined triggering and pacing for analysis of recorded data	Triggering and pacing facilitates analysis of events within recorded data

Compressed Display and Comprehensive Playback Analysis



1 Playback Mode

Measurement panel mode can be switched from Acquisition to Playback to process recorded data in the same test

2 Playback Analysis Toolbar

Easy access to graphical tools such as zoom and channel increment

3 File Info

Provides all the relevant information such as sampling rate, recorded time, data length, # of channels, etc., of the selected file

4 Start and Stop Times

Easily identify events in time data and set start and stop processing times for analysis

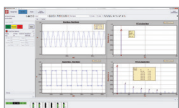
5 Processing Speed

Processing can be done at a reduced speed (slower than recording speed) to view events as they happen or at a faster speed to save processing time

6 Playback Repeat Loop

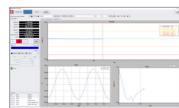
Data can be looped and played back any number of times

Related Applications



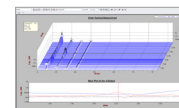
FFT Analysis DP930-10

Acquire and analyze data using auto and cross spectrum, transfer function, auto and cross correlation, histogram, and synchronous averaging



Sine Vibration Control DP960-20

Control a shaker to run sine sweep or dwells and characterize a test structure's resonances



Realtime Waterfall-Based Order Tracking DP930-27W

Acquire and analyze constant sample-per-revolution FFTs, paced by delta time or rpm into waterfall displays for rotating machinery analysis

NOTE: Continued product improvement necessitates that Data Physics reserves the right to modify these specifications without notice.