

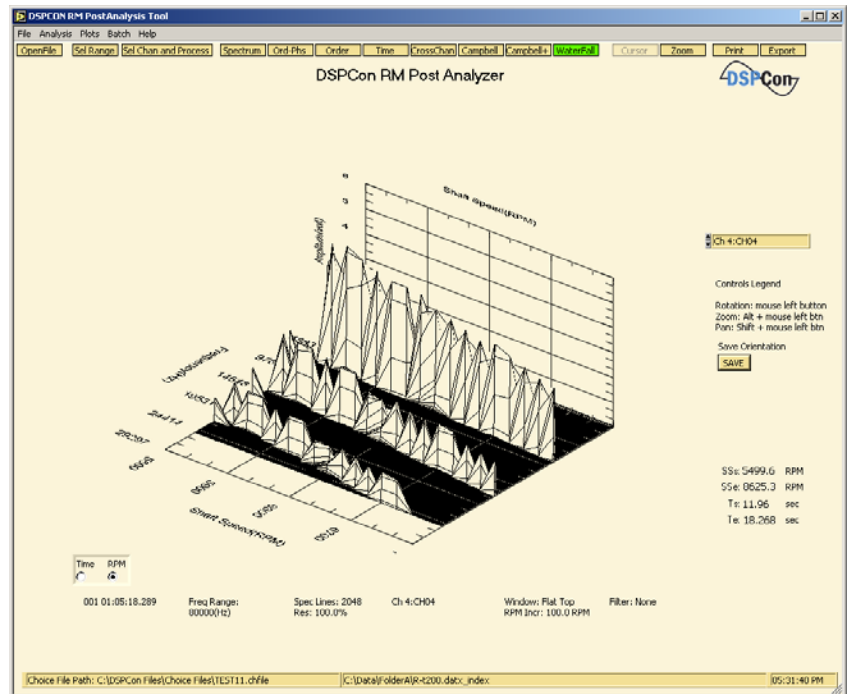


Enhanced Rotating Machinery Analyzer

ADVANCED FEATURES TO HANDLE YOUR MOST DEMANDING APPLICATIONS!

- Minimizes analysis time and provides unique data insights
- Easy to use. Works on any CATS or DATX data file. Converters available for UFF-58 files
- Available now as a cost-effective, easily installed upgrade to all DSPCon Piranha III, DataFlex-500 and DataFlex-1000 systems
- Virtually unlimited analysis parameter settings
- Analysis parameter settings can be saved as named sets and recalled at any time to perform standard analysis
- Optional noise rejection of data blocks reduces false-alarm of detected peak
- Wide range of spectral-smoothing windows includes:
 - Rectangular
 - Hamming
 - Hanning
 - Flat Top
- Pre-processing features include:
 - High- and Low-Pass Filtering
 - Single/Double Integration
 - Single Differentiation
- Performs multiple-channel, multiple-function batch operations analysis according to operator-designed analysis parameters for all designated channels
- Variable spectral block size and spectral block averaging

Easy-to-Use, Comprehensive Post-Test Analysis



Innovative, three-dimensional Waterfall Plots provide a 3-D view of spectral data versus either time or shaft speed

DSPCon's enhanced Rotating Machinery Analyzer (RMA) is a comprehensive, software tool set for the analysis and characterization of rotating machine behavior. The RMA processes DATX and CATS data files to provide a variety of single- and two-channel analyses as functions of time or RPM. A proprietary shaft speed analyzer determines the relationship between time and RPM for up to four tachometers and algorithms are provided to determine, plot and create output files representing the following types of analysis:

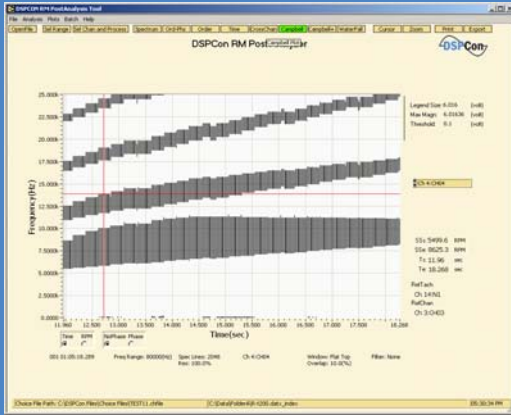
- Campbell
- Combined Campbell
- Cross-Channel Analysis
- Order
- Order with Phase
- Shaft Speed
- Spectral
- Time
- Time Limits
- Waterfall

The RMA is capable of performing operations in batch or interactive mode with results output to a spreadsheet, graphic file or sent directly to your printer. Its combination of innovative features makes it ideal for rotating machinery applications such as jet engine testing.

Enhanced Rotating Machinery Analyzer

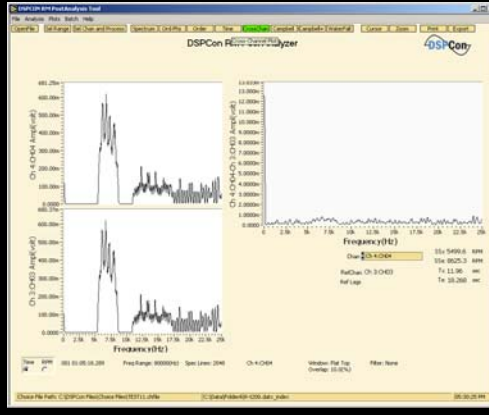
Campbell

Plots the peak of a channel signal as a function of shaft speed in RPM, frequency in Hz and amplitude.

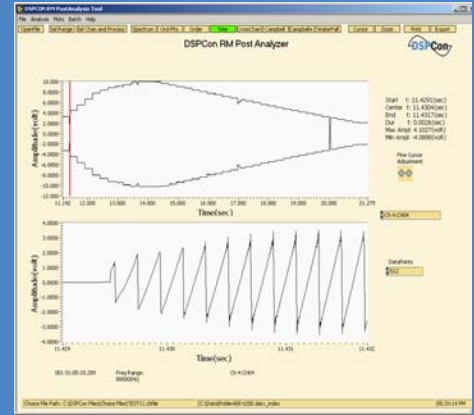


Cross-Channel Analysis

Including cross- and auto-spectra, transfer function (amplitude and phase) and coherence.



Time Series Analysis



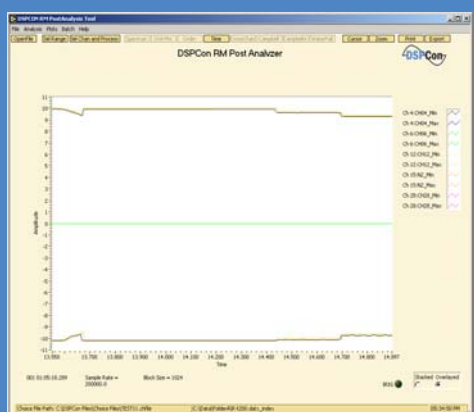
Combined Campbell

(includes Campbell, Order & Peak)

Order Analysis

Calculates spectral amplitudes at user-specified order frequencies relative to the shaft rotational frequency.

Time Series Overlay



Spectral

Plot includes peak tracking cursor and digital display of the peak spectral amplitude and frequency.

Order Phase Analysis



Shaft Speed

