DynaMAX™ SUITE

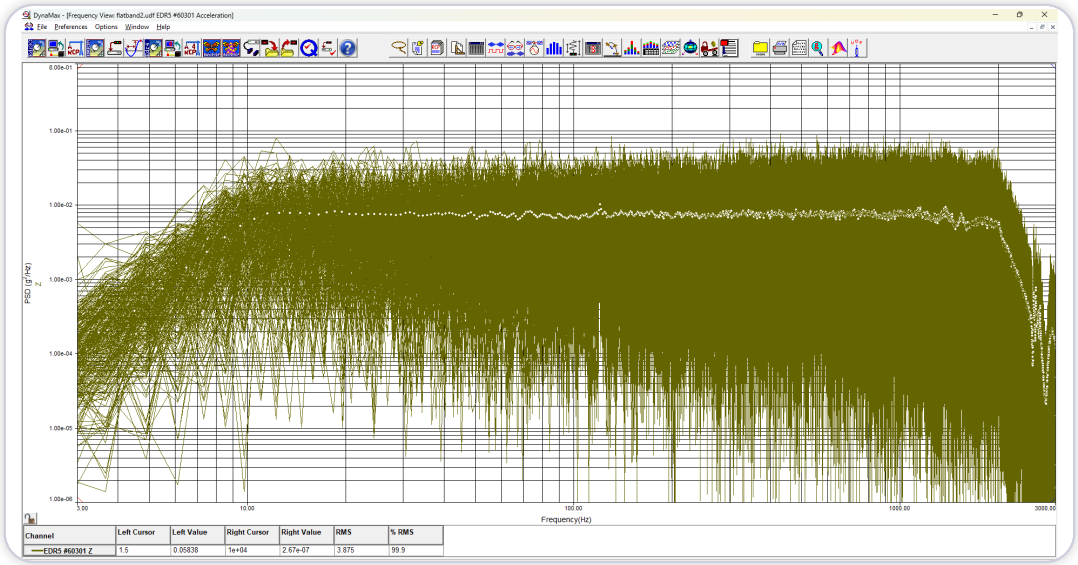
Analyze Shock, Vibration, Environmental & Test Data in Minutes

Included Free With All Recorder Purchases & Rentals

- Full Time-Domain Analysis
- Power Spectral Densities
- Shock Response Spectrum
- Transmissibility
- Velocity & Displacement Integration
- Jerk Analysis
- Probability Density Functions
- Digital Filtering & Smoothing
- Normality Testing
- Multi-Event Overlays
- Event Table Sorting & Editing Tools
- CSV & PDF Export
- Package Drop Height Analysis
- Developed from 40 years of Shock & Vibration Measurement Experience

Designed For Engineers Who Need Answers Quickly

Power Spectral Density Analysis



Calculate PSDs and SRS in seconds. No coding required. Export data to PDF reports and controller-compatible formats.

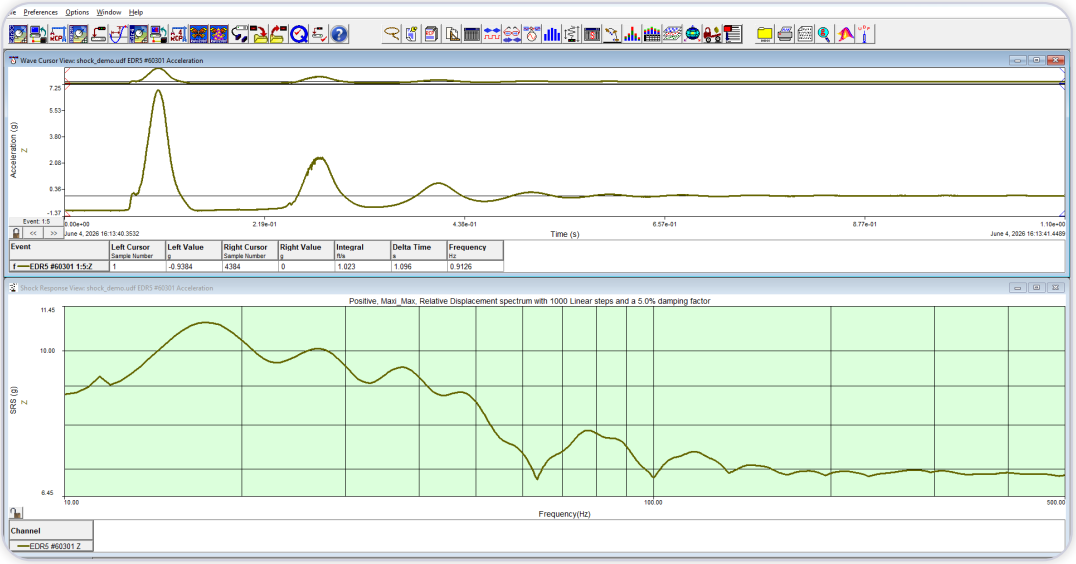
IST Instrumented Sensor Technology

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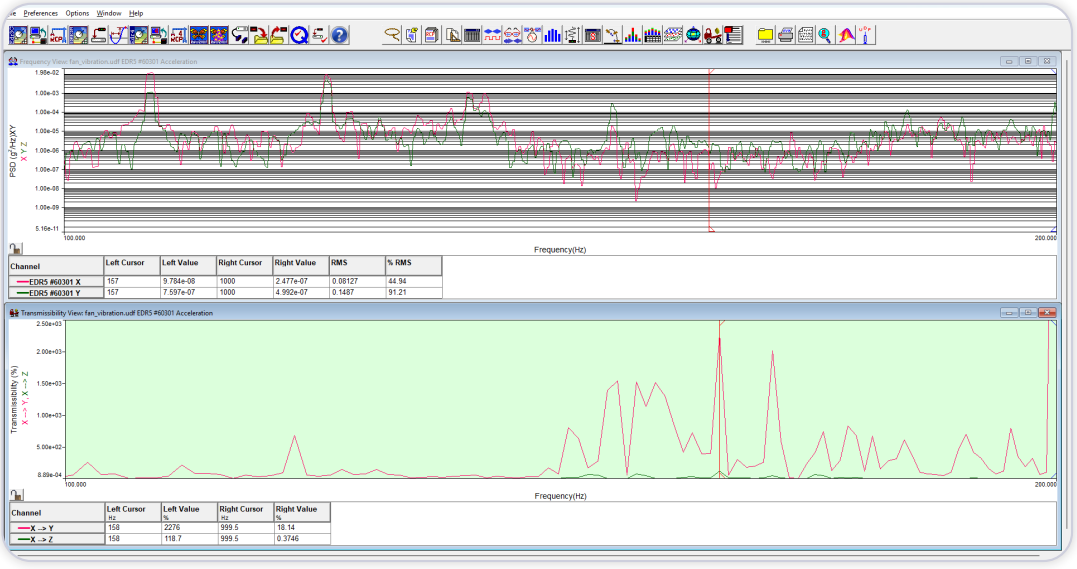
Why Engineers Choose DynaMax Suite

- Included with every recorder purchase and rental
- Fast instrument setup and download
- Free tech support
- Updates available for existing customers
- No software subscription fees
- 40 Years of Shock & Vibration Experience

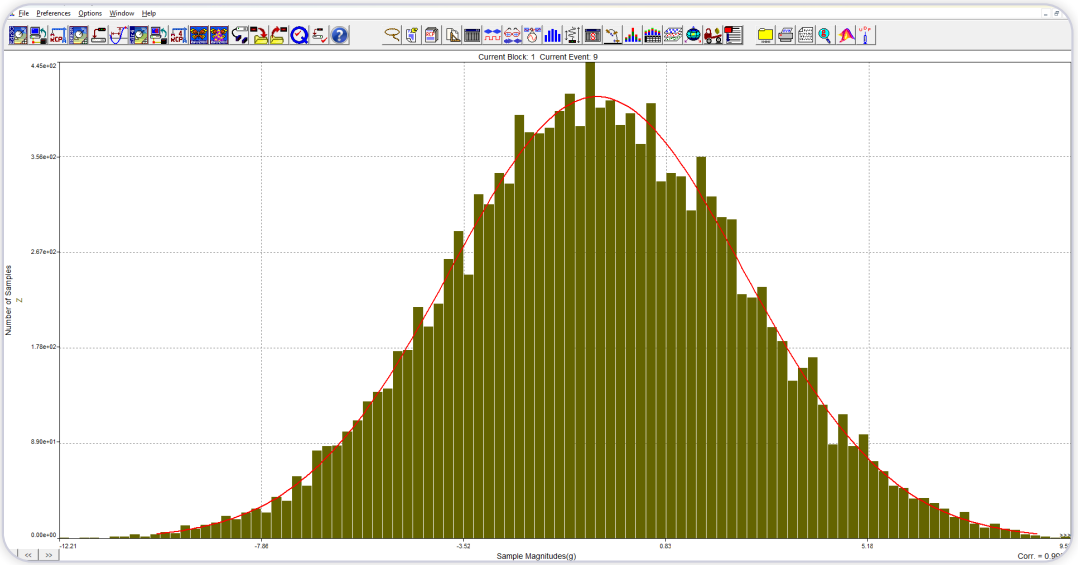
Shock Response Spectrum



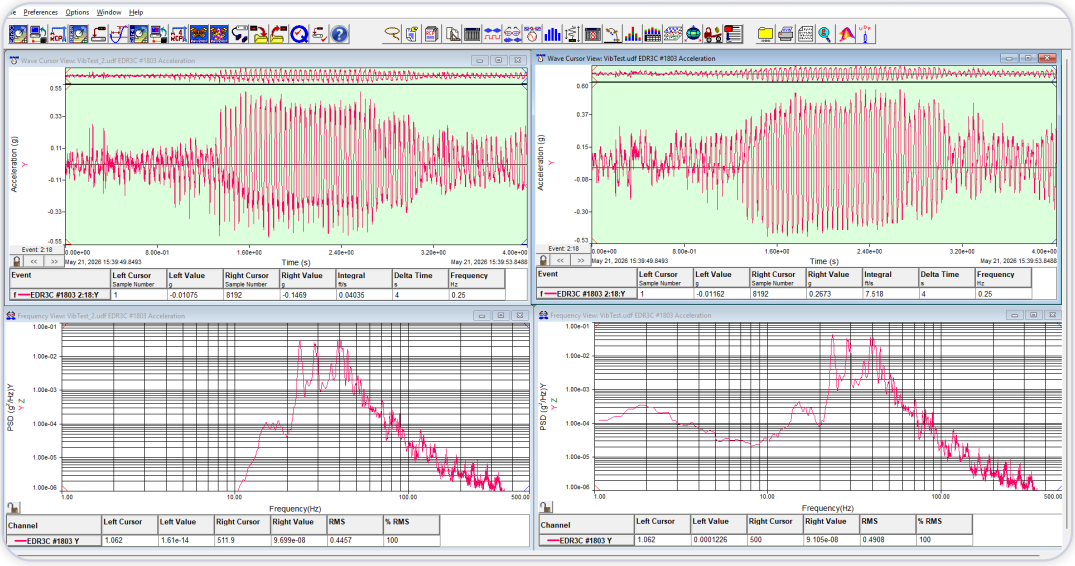
Transmissibility



Normality Testing



Digital Filtering

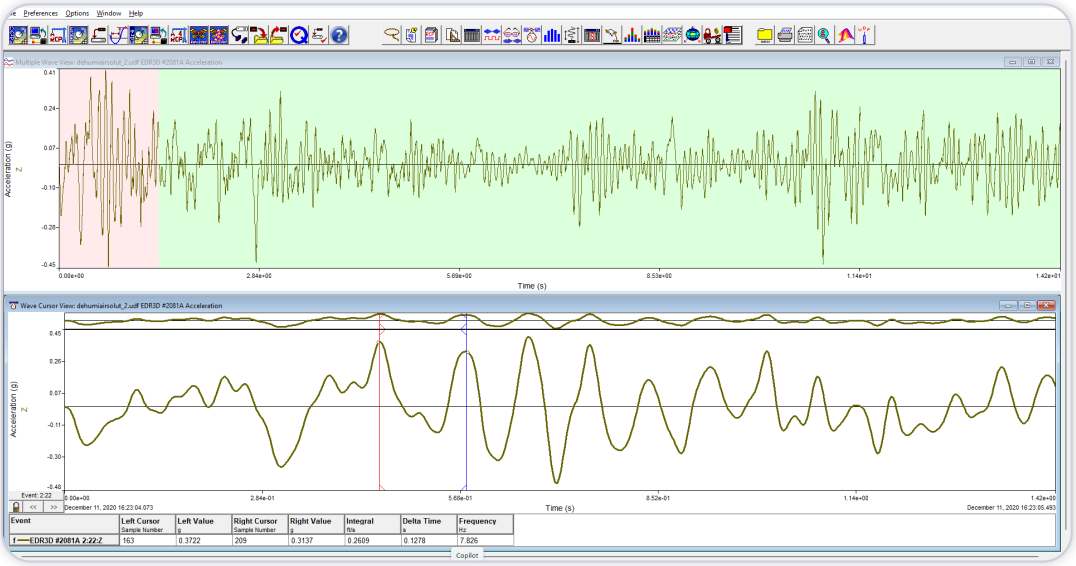


Analyze years of archived field data easily. Correlate shock, vibration, temperature, and humidity. Tabular and graphical data displays. Sort and edit large files. Supports analysis of files containing up to tens of thousands of recorded events & gigabytes of data. For use with all IST recorder products.

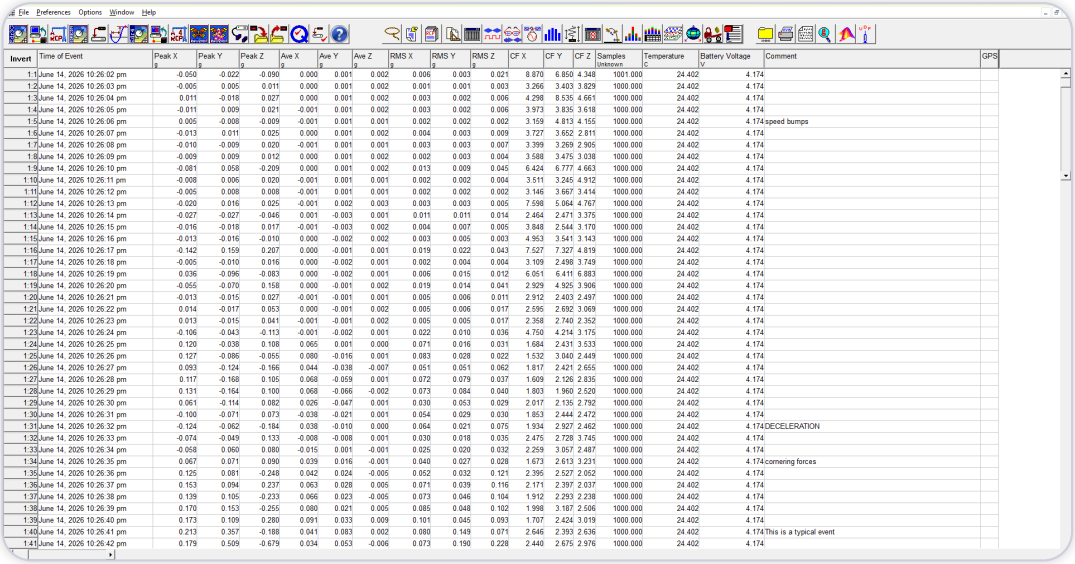
Engineering Analysis Without Programming

- No Python required
- No MATLAB required
- No Subscriptions
- Results in minutes

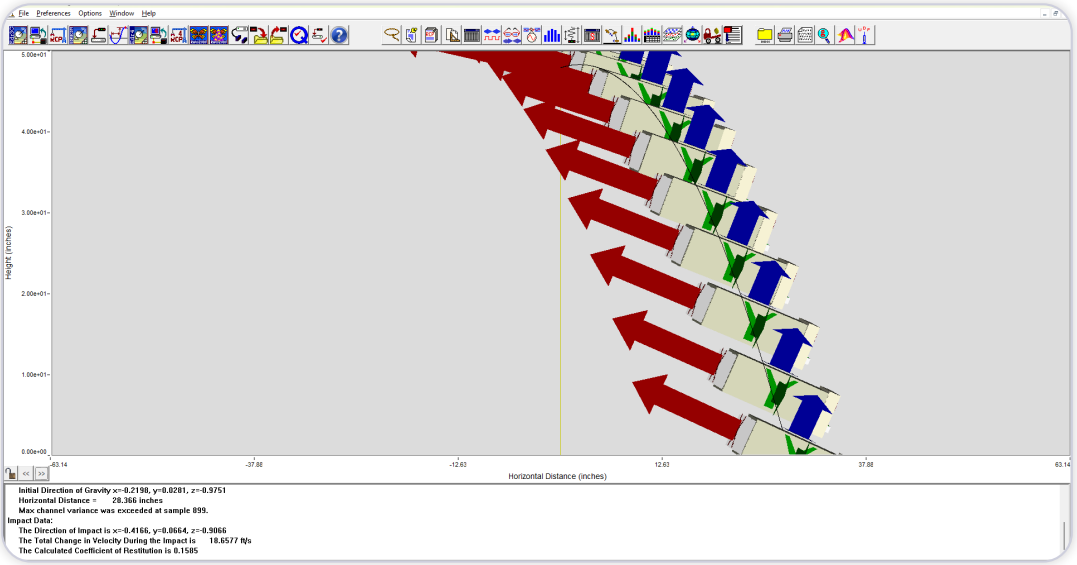
Time History GUIs & Cursor Manipulation



Powerful Spreadsheet Data Event Summaries, Reports & Manipulation



Packaging Measurement 3D Drop/Toss Animator



DynaMax Suite combines recorder setup, data download, event management, waveform analysis, statistical processing, frequency-domain analysis, and reporting tools in a single integrated software environment.

Recorder Compatibility: DynaMax is compatible with all IST recorders including EDR-5s, EDR-4s, EDR-6DOF MotionMasterTM s, EDR-3s and the SnapShock-Plus.

Specifications Summary

Operating System Support: Windows 7 through Windows 11

Recording Control Parameter Selection: active channels, sample frequency, LPF cut-off frequency, channel gain/fs range, pre-trigger, post-trigger, trigger duration threshold, max event length, dead time, memory mode, trigger sources, external input trigger, trigger out, time triggers, manual triggers, latching trigger, auto zero option, auto zero rate, slow track temp/hum channel sample rate, start/stop times

Event Selector: select events from configurable scatter plots & channel designations

Tabular Event Spreadsheet: date, time, X, Y, Z, R-peak, max, min, mean, duration, ΔV, rms, crest factor, temperature, battery voltage, GPS coordinates, and user comments: plus table editing and sorting features

Graphics: Full waveforms, X, Y, Z, R or selected channels, single or multiple events, data overlays, full cursor manipulation, data windowing, CSV export

Statistical Summary: average, standard-deviation, max, and mins over all event table waveform parameters that were tabulated

Scatter Plots: specify computed event spreadsheet table parameters on each axis

Digital Filtering: Low pass, high pass, band pass; Butterworth, Chebyshev, Chebyshev II, magnitude and phase responses; specify type, cutoff frequency and order

Pre-processing: mean removal, linear trend removal, ¼ sine tapering

Derivatives (Jerk); single and double integration, CSV export

Power Spectral Densities: specify FFT/DFT; windowing type; zero padding or truncation; CSV export

Shock Response Spectrum: specify primary, residual, maximax or relative displacement; frequency range: step type; damping factor; # steps; pos, neg or absolute value; CSV export

Transmissibility: frequency range, # lines, specify channel comparisons: CSV export

Package Drop Height Analysis: calculates free fall or equivalent drop heights, impact event classification & orientations, e-factor specification, drop & handling report summaries, e-factor package cushioning 3D profiling , 3D drop and toss package animation, damage boundary curve display

Scripting/Virtual Recorder: advanced C++ scripting for custom algorithms