PHYSICAL ACOUSTICS

Datasheet

AEwin64™ Data Acquisition and Replay Program

AEwin64™ is a powerful 64-bit Windows (10/11) application designed specifically for real-time "simultaneous" processing, display, storage, and replay of Acoustic Emission (AE) features and waveforms. It seamlessly integrates with PAC's AE Systems, providing true real-time operation and control.

In addition to is enhanced performance and memory usage, AEwin64™ introduces ribbon type GUI and upgraded graphics package to enhance user experience.

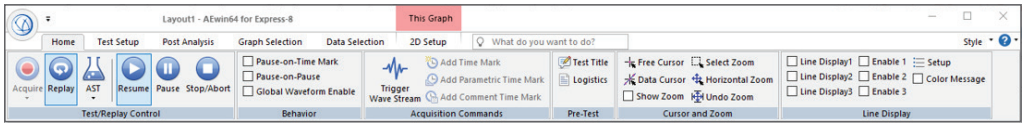
AEwin64™ is compatible with MISTRAS' standard data file format (DTA). This enables users to seamlessly replay and analyze both new and previously collected AEwin data and layout files. AEwin64™ empowers users to effortlessly incorporate graphs and tables, allowing them to monitor and analyze data for postprocessing and in-depth analysis.

SOFTWARE CAPABILITIES

- Exceptional 2-D and 3-D graphing capabilities that allow the setup of multiple graphs on a screen, limited only by the screen resolution
- Toggling between multiple screens by selecting a user-labeled tab
- Mouse-driven "Data Selection" features that allows designation of hits, waveforms, and events from graphs for detailed analysis and filtered export
- Ability to set up and individually size (on screen) many different types of graphs, including 2-D line graphs, histograms, point plots, waveforms, FFTs, overlays, multiple plots on a single graph, and color options
- Arrange multiple graphs on a screen
- Expandable to full screen with zooming and panning for close-up analysis
- Full cursor readout capability
- 1-, 2-, and 3-dimensional location modes
- Allows setup of multiple location groups
- All new line display function, including 3 configurable displays with improved functionality
- Provides mouse-oriented sensor placement and editing features
- Allows selection of structure type (plate, vessel, etc.) for setup, viewing, & location

SYSTEM REQUIREMENTS

To run AEwin64™ effectively, it requires Windows 10 or 11 and an Intel i3, i5, i7, or i9 processor. We recommend a minimum configuration of a 2 GHz processor, 16 GB of RAM, a 256 GB SSD, and an HD display monitor with 1920 x 1080 resolution. Similar computer specifications are also recommended when using AEwin64™ for replay.



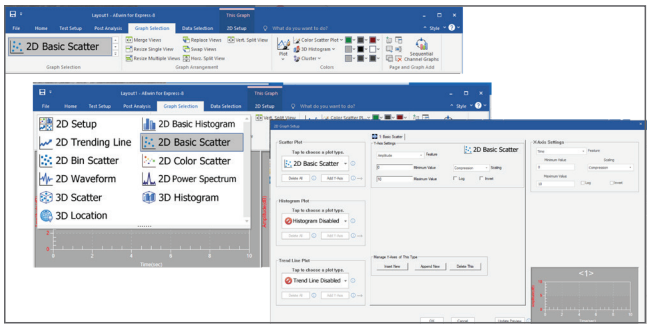
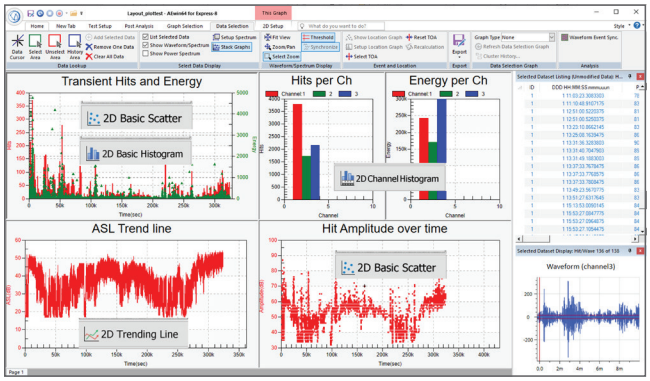


Figure showing the Graph Selection ribbon interface, the different available 2D plot options and an example of the new graph setup menu. The new menu is designed for easier plot definition.



Example of single tab page showing several different types of 2D plots. Clockwise: Scattered and histogram combined plot, bar cumulative plots, line displays, waveform display, scattered plot and trend line plot.

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