



F.D.R. VIEW

FIELD DATA REPLICATION SOFTWARE

Reproduce your waveform

Take your field acceleration measurements and reproduce them on your shaker in your test lab. No need to try to approximate your field environment through the approximations inherent in the standard random, sine or shock tests.

Long waveforms

Import waveforms from data recorders using an analog input, or import from digital wave or text files. Waveforms can be up to 50 hours long at a 12 kHz sampling rate or up to 6000 hours long at a 100 Hz sampling rate.

Test scheduling

The test can be set to reproduce the waveform for a specified duration. The waveform can be scaled up or down by any factor to get the test intensity you desire. Tests can be programmed to run for various periods at different intensity levels.

Multiple shakers

From 1 to 4 control loops can be run simultaneously to independently control up to 4 shakers with 4 separate waveforms.

Configurable safety limits

To protect your test article and shaker system, configurable acceleration and drive limits can be set by the user. The control input is also verified against shaker force ratings.

Equalization

The controller automatically equalizes the response of the shaker/fixture/product prior to running the test. This equalization can be memorized and stored with the test to quickly start a test at a full equalized level. The frequency range of the output signal is configurable, and a frequency band can even be notched out of the signal.

Data Storage

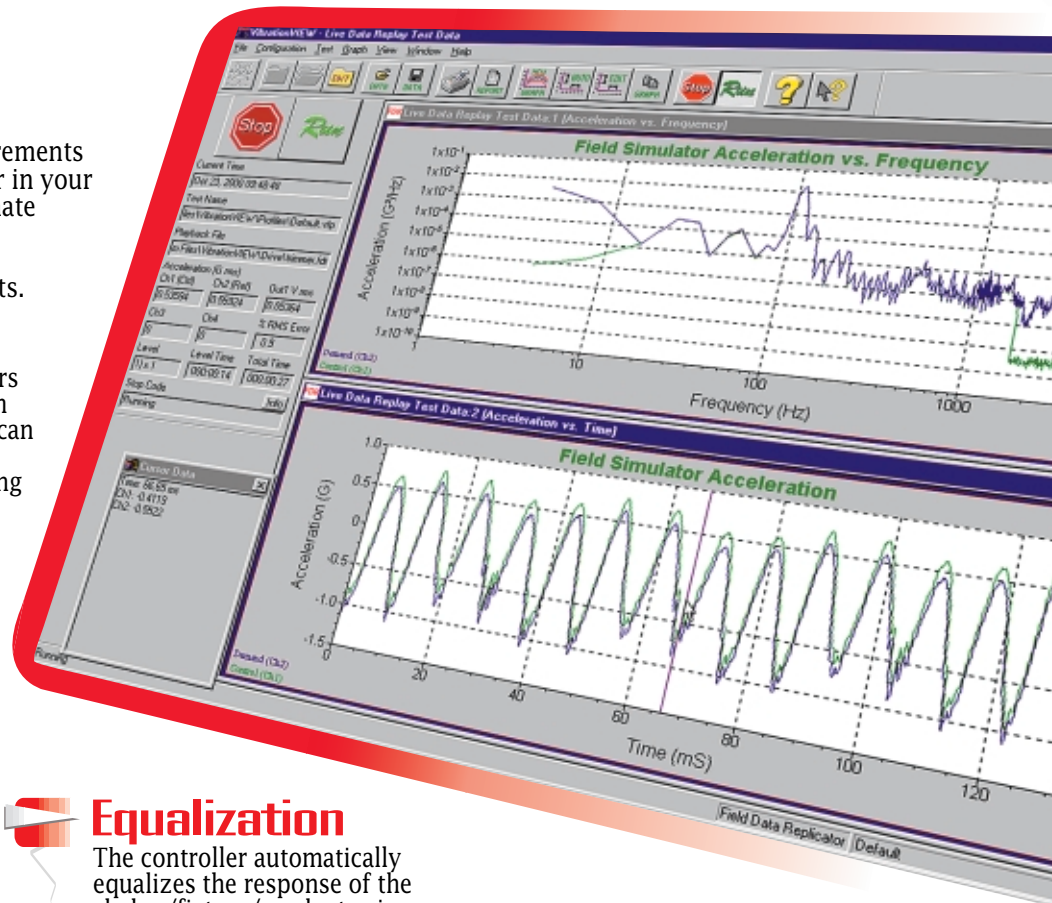
All of the test data can be stored to the disk for later retrieval. Data storage can be done manually or programmed to automatically store at user-defined pulse intervals.

Reference Output

The second output channel supplies the desired acceleration waveform. This signal can be used as a reference signal for external analysis equipment.

Data plots

Many graphical display options are available, including acceleration and drive voltage vs. time or frequency and channel-to-channel transmissibility. Graphs can be easily auto-scaled or zoomed and cursors displayed. Data and text annotations can be easily placed on the graphs, with data values updated live as the data changes.



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