

# **Product Release**

August 15th, 2005

# LDS-Dactron Shaker Control Version 6.0

#### **Enhancements**

#### 1. User Interface Enhancements

## New Start-Up page

The start up page provides direct access to a wide range of application functions and administrative actions including the following items:

- Open a saved project
- Create a new project
- Program/Execute a Project Sequence
- Set Global Parameters
- Administration of password security and license key
- Set Global Application Style
- Start-Up page can be customized by the user

#### **Global Parameters**

This capability allows parameter sets to be defined and used for every application. The parameter tables that can be set for global use are as shown below:

- Input Channel Settings
- Shaker Parameters
- Global Display Settings
- Engineering Units
- E-Mail Setup

## Improved Profile Setup Dialogs

- Simplified setup table with a more intuitive table format
- Resizable profile window
- User selected font size
- Profile graph updates as table is entered; highlighting of table point on the plot
- Better crossover calculation technique

## Simplified Control Parameter dialogs

- Reduced parameter settings
- Added "auto" setting for the frequency range in Random to automatically set Fmax based on the profile Fmax
- Deleted redundant parameters

## Simplified data saves and recalls

- Direct access to the Recall function from a new icon on the toolbar
- Simplified activation of signals to save by frequency domain or time domain categories
- Save selections activated by default when user enables input channels
- Simplified directory explorer default level display
- Automatic replay "video" display of recalled data with user controls
- Drag and drop of recalled, saved or cached signals into a display pane

# Improved Test Sequence

- Test Sequence log added
- Interruptible sequence with the possibility an abort a test to run a different application and then resume the aborted test

#### General

• TEDS interface updated to support V1.0 TEDS specification

## 2. Application Enhancements

#### Random

• Hinv abort tolerance capability added. This new feature provides and automatic abort of a test if there is a change to the Hinv function during the test.

#### Sine

- Loop check function added to the test schedule
- Minimum frequency start frequency lowered from 0.4 Hz to 0.1 Hz
- Compression rate programmable as function of frequency
- Disable control signal loss abort for multi-channel control (for complex structures with deep anti-resonances)
- Integer dwell and sweep event added to the schedule
- Selection for Log or Linear averaging added to the Control Parameters

## Waveform Editor

- Capability to read ASCII files in European format (using comma instead of decimal point)
- Improved display of large data sets with new display tools and zooming to all the way down to individual data points
- Enhanced displacement compensation method for large data files

## Long Time History

- Improved display of large data sets with new display tools and zooming to sample by sample level
- Loop function added to profile table
- Advanced Abort tolerance setting that allows a breakpoint table of times and abort levels

## Shock SRS

Inverse pulse added as a test schedule event and a control choice on the control panel

## NET-Integrator

• Compatibility to LabView added with several new function additions

## **Other Enhancements and Bug Fixes**

## Random

In the Quick Report plot legend the values for PSD RMS were off by a factor of 10

#### Random on Random 2465 The Demand RMS value displayed in the Control Panel was incorrect Sine 2072 Multi-channel control option added in Advanced setting for Control Parameters to change the abort criteria to allow temporary signal loss sweeping through a sharp anti-1837 RESPONSE channel problems with reported amplitudes of DC signals 2016 Loop check function added for sine as a Schedule function Long Time History 1962 Import of ASCII data with a comma instead of a decimal point as decimal field delimiter is now possible 2036 Total Remaining time showed negative time for multi-profile schedule setups 2087 Profile Event "Run at Level" wasn't tied to the EU Level Setting 2308 Profile Abort limits did not change when EU units changed from g to m/s<sup>2</sup> 2309 Start-up overshoot related to using level units of dB 2105 Spectrum Signal amplitudes different when imported into LTH Pre-Test Profile Waveform Editor 2040 Import Data Quantity Unit is not retained for any setting 2041 Added an icon for Apply Compensation to Toolbar 2042 Histogram engineering units did not match Import Data Quantity setting 2043 Previously the import units were defined in both in Preferences and the Import Profile from File dialog 2019 Displacement display amplitudes were not correct when displacement was set as the Import Data Quantity 2020 Software crashed sometimes using Graphical Editing Operations (Delete, Paste to) 2088 Non-acceleration profiles generated in Waveform Editor shows different amplitudes in Acceleration data saved in gn's was high by a 9.81 factor when imported as m/sec<sup>2</sup> 2101 NET-Integrator 1884 Added NET-Integrator commands "Proceed" and "Stop" commands for Pre-Test Report Added NET-Integrator commands "50%", "100%", "Stop" for Drive Ramp-up dialog

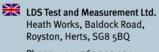
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## General

1705	Added notching active message to the run log
1982	Email on abort does not work if Resume on Abort is active
2204	Limit Profile disabled without warning when recalling channel table with Monitor
	channel changed to Response channel
2412	Project Sequence function now works for LTH projects also
2097	Chamber Interface - Chamber Event "Actions by Shaker Controller" problems
2110	Project Sequence - added an option to turn off continue prompt following a test abort
2111	Abort Actions don't work when Enable resume from abort is active

## Reports

A number of bugs were fixed for the template report function.



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