AS-410 Vibration Analyzer

REAL-TIME VIBRATION ANALYSIS AND TRANSIENT DATA CAPTURE SOFTWARE

POWERFUL AND VERSATILE ANALYSIS TOOL

The AS-410 Vibration Analyzer software merges the best features of a real-time machinery analyzer, dynamic signal analyzer, transient capture device, modal capture tool, and digital recorder into one powerful package.

REAL-TIME DATA CAPTURE AND ANALYSIS

The AS-410 captures, analyzes, presents, and stores the real-time data from the Alta Solutions hardware platforms.

DIGITAL RECORDING AND PLAYBACK

The AS-410 has the ability to record data to a hard drive based on events or defined intervals. It maintains a large data buffer, which allows storage of pre-triggered data before an event. This data can be played back and analyzed off-site. The AS-410 can change the analysis parameters (spectral lines, overlap, etc.) during playback avoiding potential travel to re-record the data.

ALARMING CRITERIA

The AS-410 has the powerful capability to act as a monitoring system, and has over 50 analysis criteria built-in. This feature allows the users to extract the different machinery features from the dynamic data. These criteria can be used to trigger data capture and alert the operator.

CORRELATE WITH EXTERNAL PROCESS DATA

For machinery diagnostics, it is important to understand the operating conditions of the machine under test. The AS-410 allows external process data (pressures, temperatures, flows, load, etc.) to be correlated with real-time dynamic data.

INTUITIVE USER INTERFACE

The AS-410 has a very intuitive user interface in which a user can quickly open plots, change channels, and modify settings by simply dragging and dropping the different screen elements. The software also allows vibration analysts to quickly navigate and visualize collected data.

RICH SET OF DISPLAYS

The AS-410 has a rich set of available graphical representations of collected data, including time, spectrum, orbits, waterfall (cascade, profile, order), transient/vector (Bode, Nyquist, shaft centerline), transfer functions (magnitude, phase, coherence), trends, scatter, and HMI screen elements (alarm logs, bars, field values, tables, mimics, script buttons).

DATA REPORTING FEATURES

The AS-410 has many features to allow the user to quickly annotate and document their analysis. Locking cursors allow the user to correlate and analyze data across multiple pages. Each graphical plot or table can be quickly copied into a word processor or spreadsheet for final report presentation.

Alta Solutions
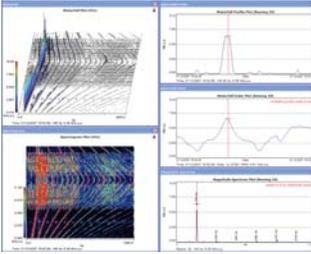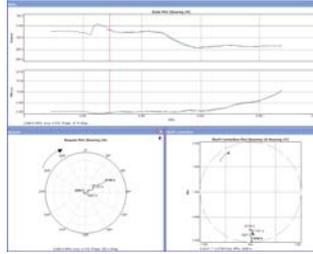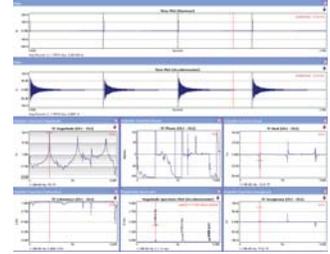Innovative Signal Processing Solutions

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WATERFALL ANALYSIS
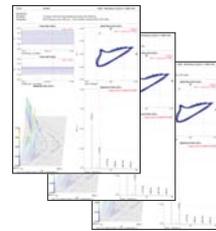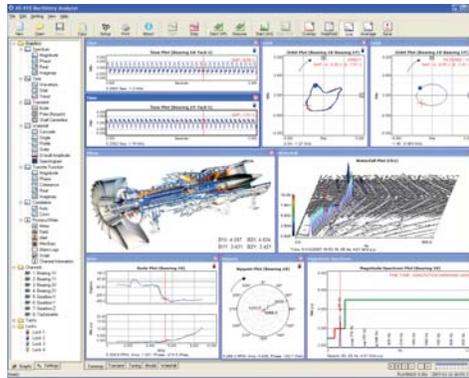

TRANSIENT ANALYSIS

MODAL ANALYSIS

SENSOR SIGNALS
Accelerometers, Proximity Probes,
Vibrometers, Pressure Transducers,
Velocity Probes, and Tachometers

PROCESS DATA
PLC and DCS via Network Sockets,
Digital Inputs, Ethernet, and RS-232

**REPORT GENERATION
AND DATA OUTPUT**
Alarm Summary, HTML Reports,
E-mail, Speadsheets, Time and
Spectrum Snapshots, Digital Recording,
Data Trending, Modbus, OSI PI Interface,
and SQL Database

OUTPUT DEVICES
Electromechanical Relays,
PLC and DCS, Ethernet, RS-232, and Printers

DATA EXPORT
ASCII, Mathwork's Matlab, WAV, SQL,
Vibrant's MEScope, and UFF (Universal File Format)

Contact Alta Solutions for the latest specifications and ordering information.

Alta Solutions
Innovative Signal Processing Solutions

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