

DATASTICK® SPECTRUM 1.6

Handheld software for the VSA-1212 Vibration Spectrum Analyzer

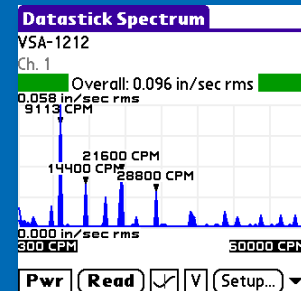
KEY FEATURES

- Runs on Palm Powered® handheld computers
- Straightforward, intuitive operation; easy to learn
- Captures and saves waveform and/or FFT spectrum
- Shows wave or spectrum, peaks, and level alerts in a single view
- Easy setup and execution of inspection routes
- Attach on-site text notes to data for export to desktop PC or laptop
- One-click data export from Palm Powered handheld computer to Datastick Reporting System™ PC software for analysis and trending

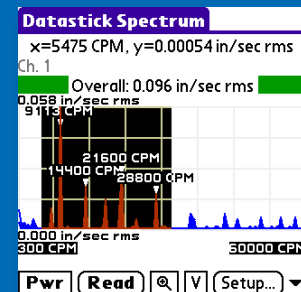
Description

Datastick Spectrum software is part of the Datastick VSA-1212 Vibration Spectrum Analyzer system. Datastick Spectrum runs on the Palm Powered handheld and makes it easy to collect and analyze vibration waveforms and spectra for condition monitoring, predictive maintenance and routine troubleshooting. Reloadable configurations let you change input and display parameters instantly and perform repeatable route inspections easily.

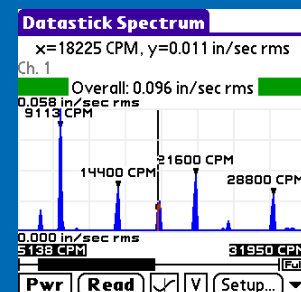
The flexible Add Note feature allows you to attach quick memos of on-site observations to your recorded data for export to a PC. Datastick Spectrum software is included with the VSA-1212 Vibration Spectrum Analyzer module and also includes and smoothly integrates with Datastick Reporting System for VSA software for analyzing, trending, and reporting waveform and spectral data on a Windows® desktop PC or laptop computer.



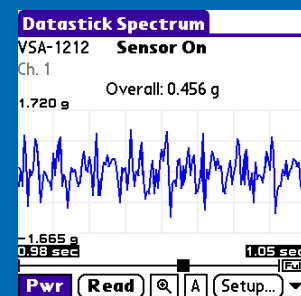
FFT at captured frequency span



Span selected for zooming



Zoomed FFT with cursor readout

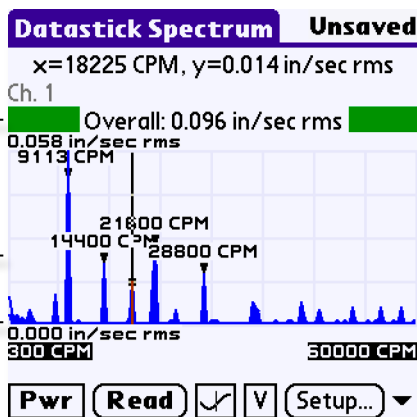


Waveform, zoomed in

Green, yellow, orange, and red level alerts can be set to ISO 10816-3 or any desired level.

The display auto-scales to the highest peak. Manual scaling is also available.

View the full spectrum or zoom in up to 64x for a closer look.



File status is clearly visible. (You can choose between discretionary saves or automatic saves.)

Automatic peak finder can show and label up to the 15 highest peaks.

Fast access to key setup and file management parameters.

Fast access to on-screen zooming tools and four cursor-position readout options.

Quickly move among Acceleration, Velocity, and Displacement modes.

Datastick Spectrum software is designed to help you collect data and do basic analysis in the field or on the floor, and at the end of the day move your data into your PC for detailed analysis, trending, reporting, and archiving—easily, quickly, and efficiently. The main display (shown above at actual size) provides all the important information

you need in one comprehensive view so you don't have to hunt through a maze of windows. Cursor-position readouts show you exact values when you touch a point with the handheld computer's stylus and you can zoom in on any area by selecting it on the screen. Datastick Spectrum helps you do your job without getting in your way.



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DATASTICK SPECTRUM 1.6 SOFTWARE

Datastick Spectrum Features and Specifications

Display modes:

- Frequency domain (FFT) in Hz or CPM.
- Time domain (waveform) in milliseconds or seconds.
- Acceleration, Velocity, Displacement, and Raw voltage.
- Peak, Peak-Peak, or RMS measurements.
- Overall vibration.
- English or metric units.

Frequency range: (VSA-1212): 50 / 100 / 200 / 400 / 500 / 800 / 1K / 2K / 4K / 5K / 10K Hz, selectable.

FFT resolution: (VSA-1212): 400 / 800 / 1600 lines, selectable.

FFT windowing: Rectangular (Uniform), Hanning, Hamming, Flattop, Blackman, Bartlett.

Peak Hold: Peak hold of 2, 4, or 8 captures.

Averaging: Linear averaging of 2, 4, or 8 averages.

Low frequency display cutoff: User selectable: No cutoff, 1, 2, 5, or 10 Hz (optimizes auto-scaling at low levels).

Display conversion: Linear with optionally adjustable slope and intercept.

Auto range: Yes, including optional auto-range on zoom; or manual range settings. It is also possible to auto-range any individual view on the display.

Cursor-position display tools:

Zoom tool: zoom in up to 64x and zoom out to full spectrum. Zoomed-in views can be panned left and right.

Inspector tool: select any data point and display its numerical value

Peak Inspector tool: cursor snaps to nearest peak

Orders tool: select any two data points and the second point as a multiple of the first

Peak Orders tool: select any two peaks and the second point as a multiple of the first

Difference tool: select any two data points and numerically display the difference in value between the two

Peak Difference tool: select any two peaks and numerically display the difference in value between the two

Display options: Indiv

Display options: Individually selectable: display drawn in histogram or continuous trace, selectable display color, optional X and Y numerical labels.

Add Note feature: Add text notes of on-site observations, test conditions, exceptions, or anything else to a signal capture for output to PC.

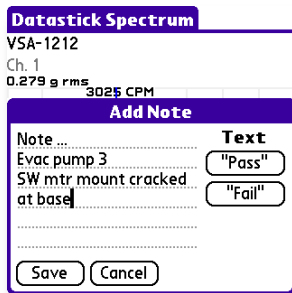
Level Alarms / Judgment Criteria: Flexible dialog box allows you to select ISO 10816-3 alert levels or define alert thresholds according to your own criteria for machine-condition levels.

Route-inspection capability: Reloadable configuration feature allows every inspection test point to be named as an individual configuration. Datastick Reporting System PC software sorts by configuration by default to allow machine histories to be built for trending.

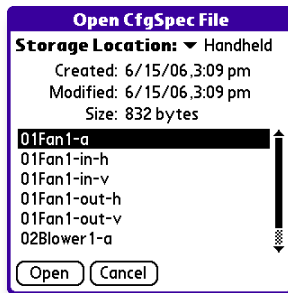
Supported handheld computers: Palm Tungsten T, T2, T3, C, Garmin® iQue® 3200, Garmin iQue 3600

VSA-1212 Basic Package includes: Datastick VSA-1212 hardware module, 64 MB Secure Digital (SD) card, Datastick Spectrum handheld software, Datastick Manager file handheld management utility for the handheld, Datastick Reporting System for VSA software for building machine histories, analysis, trending, reporting, and archiving on the PC.

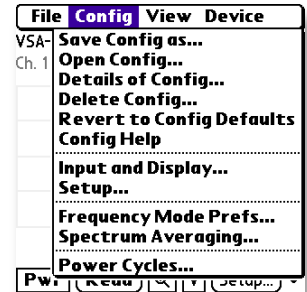
PC system requirements: Microsoft® Windows® 2000 or Windows XP and Microsoft Office® 2003 or Excel® 2003 Pro or Excel 2003 standalone or higher. Integrates seamlessly with Microsoft Office.



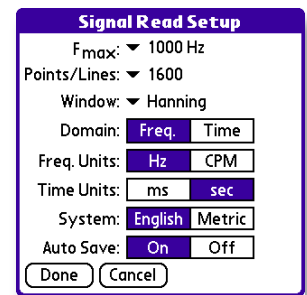
Analysis is easier, faster, and more accurate when you have all the facts. Datastick makes it easy with the versatile Add Note dialog box. Simply make a note and it is attached to your capture for export to your PC.



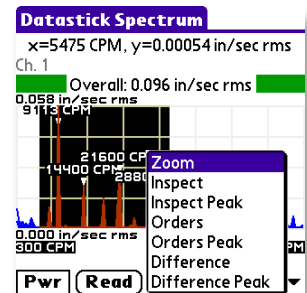
Datastick Spectrum's reloadable configuration feature helps you to take the same measurement the same way each time. Datastick Reporting System software on the PC sorts by configuration to build and display machine histories.



Configuration menu logically groups functions for fast, intuitive use. Spend less time on training and more time getting the job done.



Setup dialog puts the most commonly used parameters in one place. Setup takes seconds and every setup can be saved and reused at a later time.



Cursor-position readout tools and 64x zoom turn a high-resolution, full-color handheld screen into a focus of easy-to-see information.



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