

SETTING UP YOUR SYSTEM

- ❑ Computer Requirements
- ❑ Installing VibrationVIEW Software
- ❑ Connecting VR Controller
- ❑ Entering Global Settings
- ❑ Connecting Accelerometer and Shaker System
- ❑ Shaker Verification Using System Check
- ❑ Help File



COMPUTER REQUIREMENTS

- ◉ Windows 7 system recommended. Also supports Microsoft Windows Vista, and XP(service pack 2 and newer).
- ◉ The recommended hardware requirements for **Windows XP** are:
- ◉ Pentium 233-megahertz (MHz) processor or faster (300 MHz is recommended) At least 256 megabytes (MB) of RAM (1 GB is recommended)
- ◉ 256 MB of RAM supported (1 Gigabyte or higher recommended). NOTE: The minimum amount of RAM used **must** meet the minimum requirements of your Operating System.
- ◉ Dedicated 10/100 Ethernet port (required for VR9500 connection)
- ◉ Optional second network adapter for your internal network needs.
- ◉ SVGA-compatible or higher display adapter. (Screen resolution of 1280 x 1024 and True Color recommended). A flat panel LCD display is highly recommended due to electromagnetic interference from controlled equipment. This interference can reduce the clarity of a CRT display. A 19" inch display or larger display is optimal.
- ◉ Keyboard, mouse or other pointing device
- ◉ CD-ROM or DVD-ROM drive (required for CD installations)
- ◉ Hard disk drive with 25 MB of free space is required for installation. (More drive space is necessary if you wish to save data).
- ◉ Vibration Research Corp. supplies the VR9500 I/O Box and required cables.



COMPUTER REQUIREMENTS CONT.

- ◉ The recommended hardware requirements for **Windows 7** are:
- ◉ 1 GHz 32-bit (x86) or 64-bit (x64) processor
- ◉ 1 GB of system memory
- ◉ 40 GB hard drive with at least 16 GB of available space
- ◉ DirectX 9 graphics device with WDDM 1.0 or higher driver
- ◉ DVD-ROM drive
- ◉ Sound card Speakers or headphones
- ◉ The recommended hardware requirements for **Windows VISTA** are:
- ◉ 1 GHz 32-bit (x86) or 64-bit (x64) processor
- ◉ 1 GB of system memory
- ◉ 40 GB hard drive with at least 15 GB of available space
- ◉ Video adapter and monitor with Support for DirectX 9 graphics
- ◉ DVD-ROM drive
- ◉ Sound card Speakers or headphones



INSTALLING VIBRATIONVIEW

- Installation From CD-ROM
- CD-ROM Extras
- Finding the Software From the Web Site



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CD-ROM INSTALLATION AND EXTRAS



Install VibrationVIEW

Installation Instructions

Manual

Videos

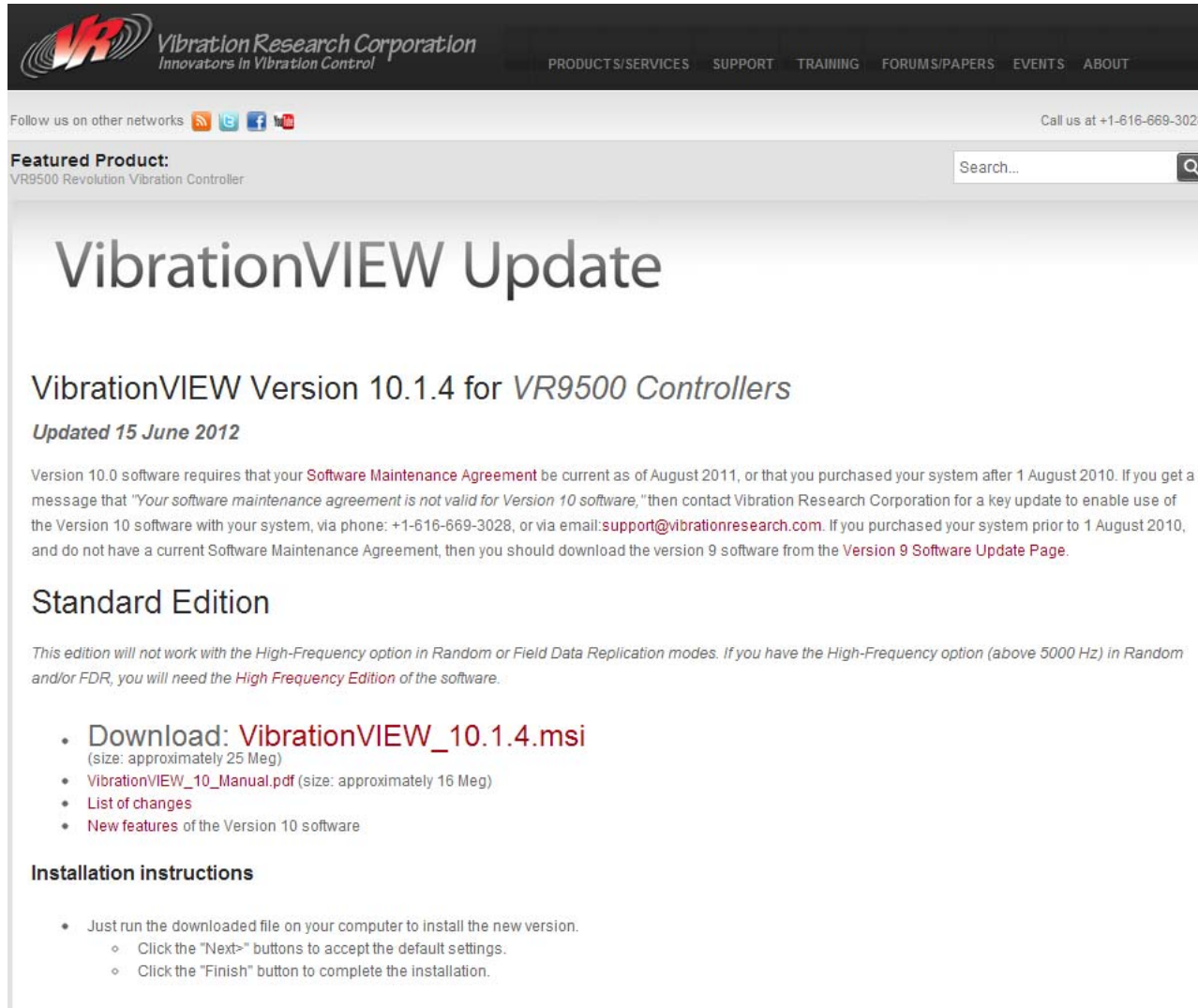
View Web Page

Exit

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INSTALLING FROM THE WEB SITE



The screenshot shows the Vibration Research Corporation website. The header includes the company logo and name, a navigation menu with links to PRODUCTS/SERVICES, SUPPORT, TRAINING, FORUMS/PAPERS, EVENTS, and ABOUT, and a contact number. Below the header, there are social media links and a search bar. The main content area features a 'Featured Product' section for the VR9500 Revolution Vibration Controller. The primary heading is 'VibrationVIEW Update', followed by 'VibrationVIEW Version 10.1.4 for VR9500 Controllers' and a date 'Updated 15 June 2012'. A paragraph explains the software requirements and provides contact information for updates. A section titled 'Standard Edition' includes a note about high-frequency options. A list of download links is provided, including the main software file, a manual, and a list of changes. Finally, 'Installation instructions' are listed, guiding the user through the installation process.

Vibration Research Corporation
Innovators In Vibration Control

PRODUCTS/SERVICES SUPPORT TRAINING FORUMS/PAPERS EVENTS ABOUT

Follow us on other networks  Call us at +1-616-669-3028

Featured Product:
VR9500 Revolution Vibration Controller

Search...

VibrationVIEW Update

VibrationVIEW Version 10.1.4 for VR9500 Controllers

Updated 15 June 2012

Version 10.0 software requires that your **Software Maintenance Agreement** be current as of August 2011, or that you purchased your system after 1 August 2010. If you get a message that "Your software maintenance agreement is not valid for Version 10 software," then contact Vibration Research Corporation for a key update to enable use of the Version 10 software with your system, via phone: +1-616-669-3028, or via email: support@vibrationresearch.com. If you purchased your system prior to 1 August 2010, and do not have a current Software Maintenance Agreement, then you should download the version 9 software from the [Version 9 Software Update Page](#).

Standard Edition

*This edition will not work with the High-Frequency option in Random or Field Data Replication modes. If you have the High-Frequency option (above 5000 Hz) in Random and/or FDR, you will need the **High Frequency Edition** of the software.*

- Download: **VibrationVIEW_10.1.4.msi**
(size: approximately 25 Meg)
- [VibrationVIEW_10_Manual.pdf](#) (size: approximately 16 Meg)
- [List of changes](#)
- [New features](#) of the Version 10 software

Installation instructions

- Just run the downloaded file on your computer to install the new version.
 - Click the "Next>" buttons to accept the default settings.
 - Click the "Finish" button to complete the installation.



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CONNECTING VR CONTROLLER

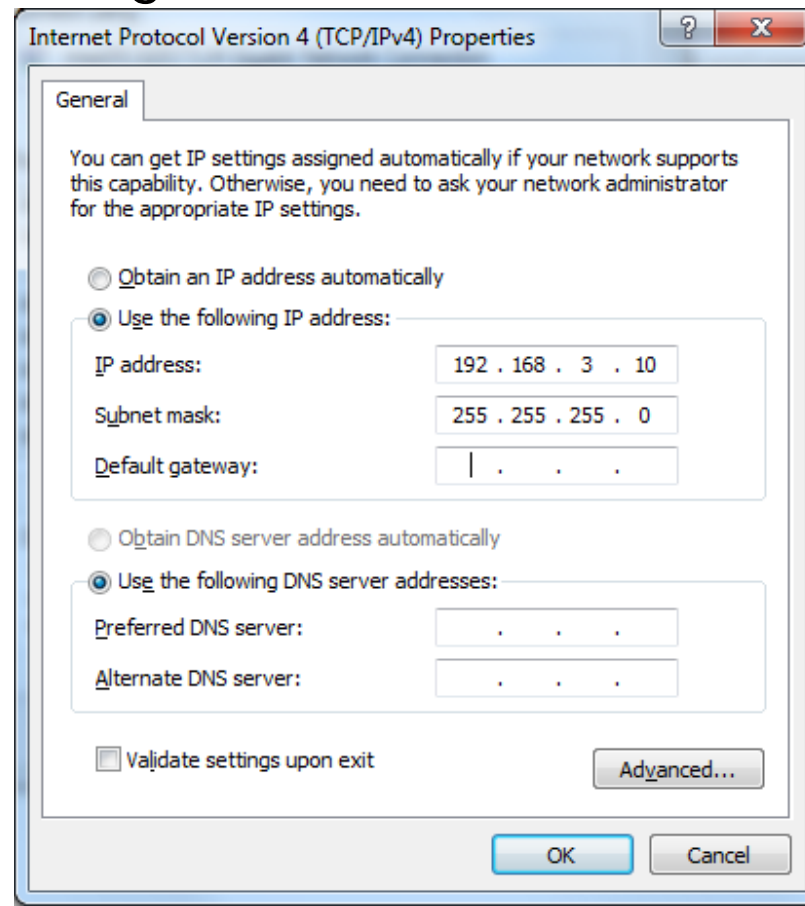
- ◉ Recommended Controller Connection Setup
- ◉ Disabling Firewall for VR Controller Network Card
- ◉ Connecting Controller In VibrationVIEW



NETWORK CARD SETUP

◉ Recommended Configuration

- Dedicated NIC
(network interface card)
- Static IP Address
- Disable Firewall



GLOBAL TEST SETTINGS

- Hardware
- Inputs Settings
- Shaker System Limits
- System Check Shaker Verification



GLOBAL TEST SETTINGS - HARDWARE

- Selection of Network Card
- Assign Controller Network Addresses
- Assign Controller Channels
- Enable Network Log
- Enable VR8500 Legacy Support

The screenshot shows the 'VibrationVIEW Configuration' dialog box with the 'Hardware' tab selected. The 'Network Card Selection' section shows a dropdown menu with '192.168.10.3' and a 'Probe' button. Below this, it displays 'Broadcom NetXtreme 57xx Gigabit Controller' with IP address '192.168.10.3' and subnet mask '255.255.255.0'. The 'Assign Control Box Network Addresses' section shows 'Control Box Addresses' as '192.168.10.220 through 192.168.10.229'. The 'Assign Channels' section is a table with columns for 'Serial Number' and 'Last Calibrated'. The first row shows 'Channels 1-4' with serial number '951147AF' and a 'View log' button. The other rows are empty. At the bottom, there are checkboxes for 'Enable network logging (for technical support use)' and 'Legacy (VR8500) Support', and buttons for 'OK', 'Cancel', 'Apply', and 'Help'.

Assign Channels	Serial Number	Last Calibrated
Channels 1-4:	951147AF	<input type="button" value="View log"/>
Channels 5-8:		<input type="button" value="Identify"/>
Channels 9-12:		<input type="button" value="Identify"/>
Channels 13-16:		<input type="button" value="Identify"/>

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GLOBAL TEST SETTINGS - INPUTS

- Accelerometer settings (shown in report)
 - mV/G Sensitivity
 - Serial number
 - Cal date
- Constant current type accels do not need a conditioning box (built into VR9500)
- Reads TEDS - all info in them placed into appropriate boxes for you.
- "Advanced" settings and Database features
- Microphones, strain gauges, laser vibrometers, etc. can also be used with Alternate Units label

The screenshot shows the 'VibrationVIEW Configuration' dialog box with the 'Inputs' tab selected. The 'Parameters' sub-tab is active, displaying a table of input channels and their settings. The table has columns for Channel Label, Serial Number, Sensitivity, Calibration Date, Accel Power, and TEDS. Channel 2 (Ch2) is highlighted, showing a serial number of 7239-X, a sensitivity of 10.4 mV/G, and a calibration date of 3/30/2009. The 'Accel Power' checkbox is checked for Channel 2. The 'TEDS' checkbox is also checked for Channel 2. The 'Saved Configuration' section is empty. The 'Load configuration' and 'Save configuration' buttons are visible. At the bottom, there are buttons for 'Read All TEDS', 'Database >>', 'Advanced >>', 'OK', 'Cancel', 'Apply', and 'Help'.

Channel Label	Serial Number	Sensitivity	Calibration Date	Accel Power	TEDS
1 Ch1		10 mV/G	6/17/2009	<input type="checkbox"/>	<input type="checkbox"/>
2 Ch2	7239-X	10.4 mV/G	3/30/2009	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3 Ch3		10 mV/G		<input type="checkbox"/>	<input type="checkbox"/>
» 4 Ch4		10 mV/lb	8/ 1/2009	<input type="checkbox"/>	<input type="checkbox"/>



GLOBAL TEST SETTINGS-SHAKER SYSTEM LIMITS

- ❑ $F=M*A$ calculations are monitored
- ❑ Displacement limits are monitored
- ❑ New shakers can be saved and added to the drop down menu
- ❑ Peak drive volts

VibrationVIEW Configuration

Parameters Directories Hardware Users Calibration Graph Defaults
Inputs Units Limits Mass Remote Inputs E-Mail Notification Web Server

Shaker Model
Unholtz-Dickie SA30E-T1000-58

Sine Ratings	Random Ratings	Shock Ratings	F.D.R. Ratings
Force 12000 F-lbs	Force 12000 F-lbs	Force 27000 F-lbs	
Velocity (peak) 60 in/s	Velocity (peak) 60 in/s	Velocity (peak) 60 in/s	Velocity (peak) 60 in/s
Displacement (pk-pk) 2 in	Displacement (pk-pk) 2 in	Displacement (pk-pk) 2 in	Displacement (pk-pk) 2 in
Acceleration (peak) 75 G	Acceleration (rms) 75 G	Acceleration (peak) 168.75 G	Acceleration (peak) 75 G
Drive (peak) 10 Volts	Drive (rms) 10 Volts	Drive (peak) 10 Volts	Drive (rms) 10 Volts

Save these settings

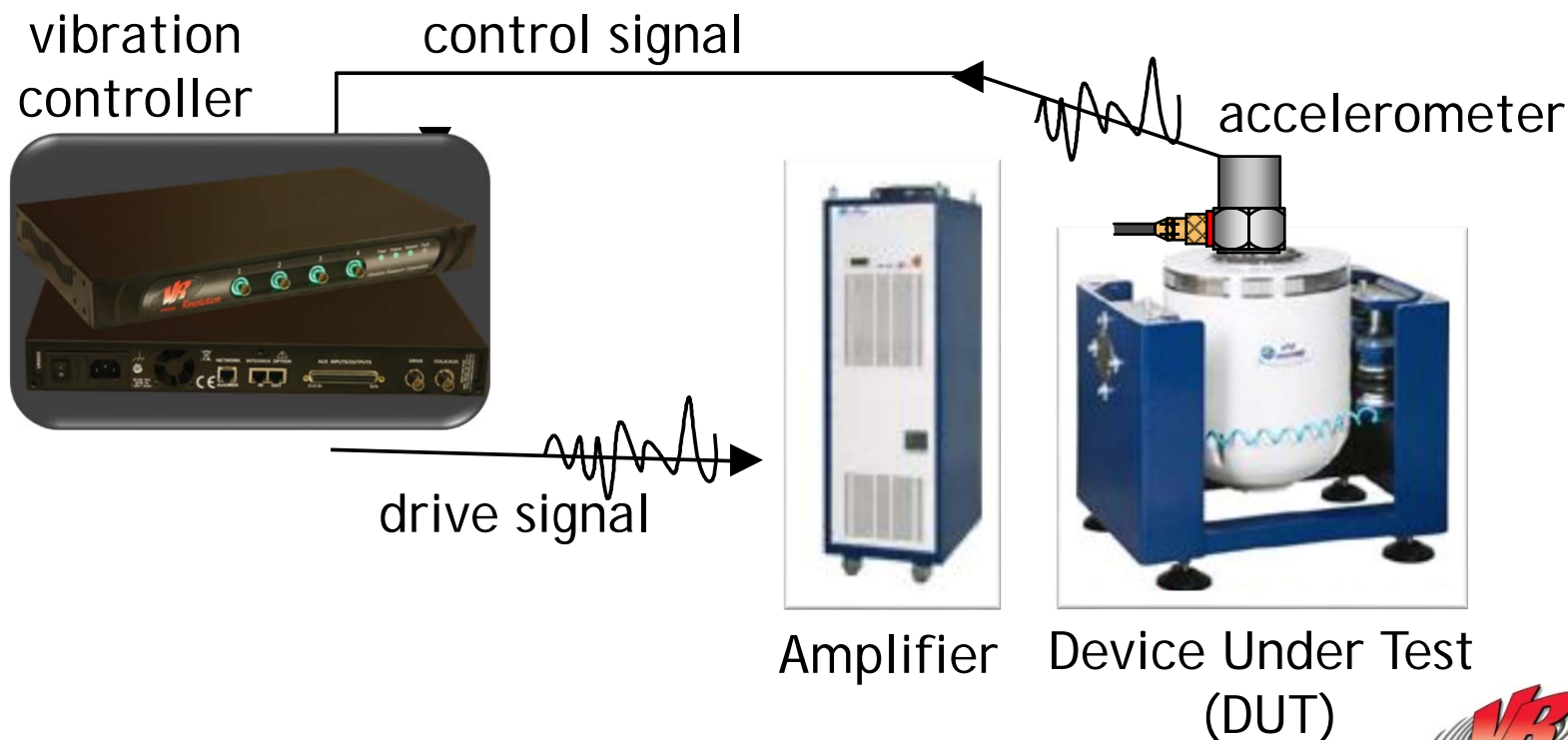
OK Cancel Apply Help

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VR9500 REVOLUTION

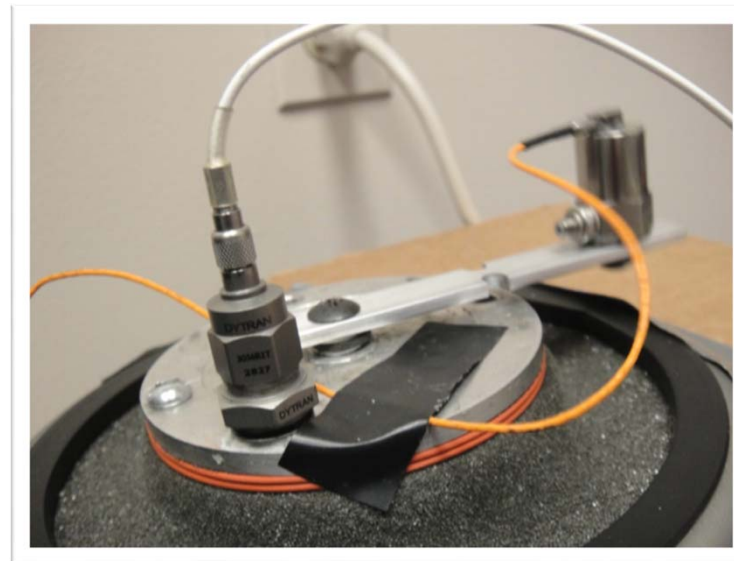
- ◉ The purpose of the controller is to ensure that the programmed vibration profile is the same as the actual vibration measured
- ◉ The controller does this by monitoring the input response from the accelerometer and making adjustments to the drive voltage



ACCELEROMETER

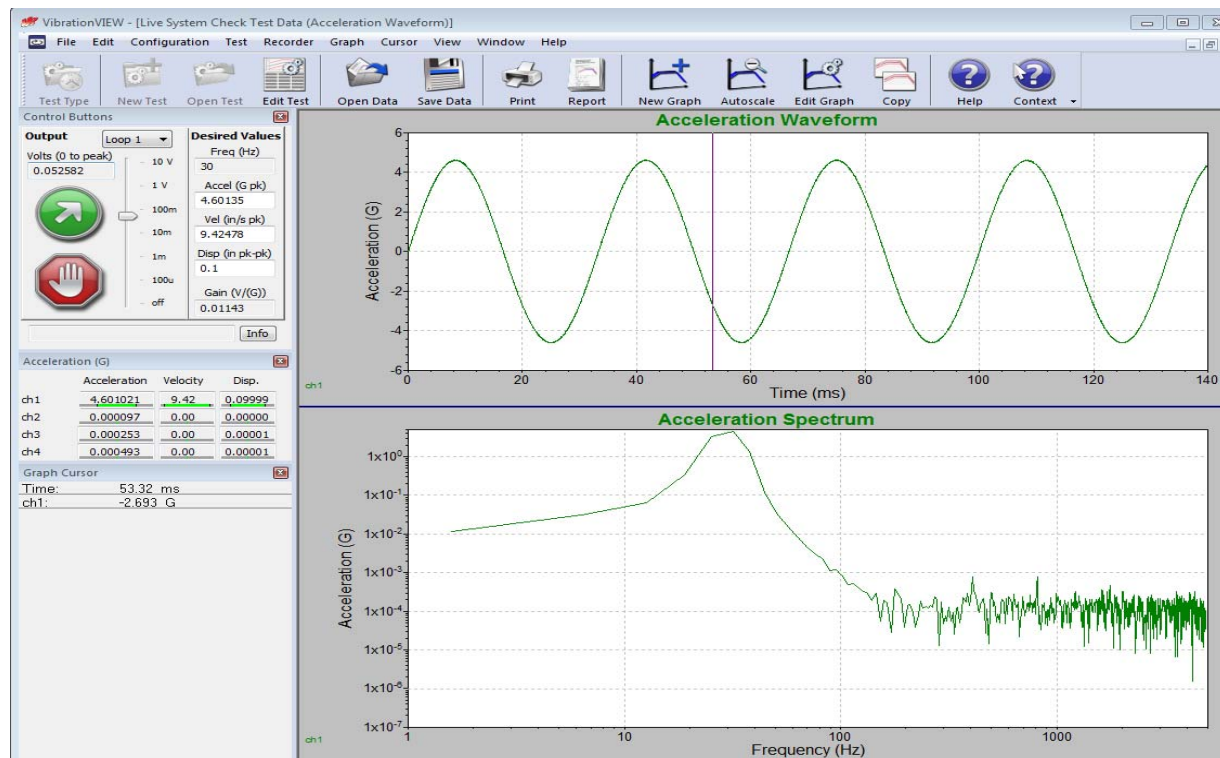
Mounting: Tape down the cable correctly

- When not able to screw mount an accel, use super glue and not wax




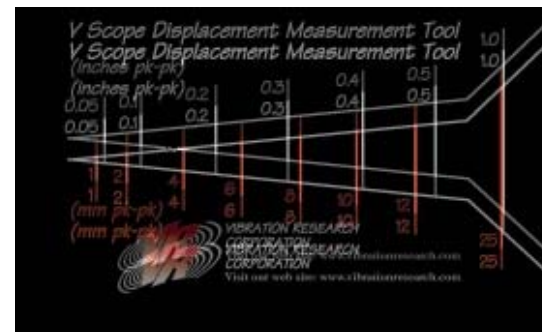
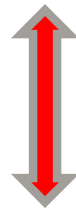
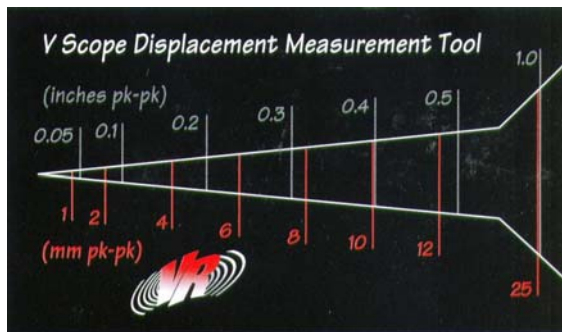
SYSTEM CHECK - SHAKER VERIFICATION

- Used to determine if the shaker is working properly and if the controller is sending and receiving the correct information
- If something is wrong, system check can notify you before you run your test
- After run, save the data. Run again in 30 days (or so) and see the difference compared to your original data. It should match up.



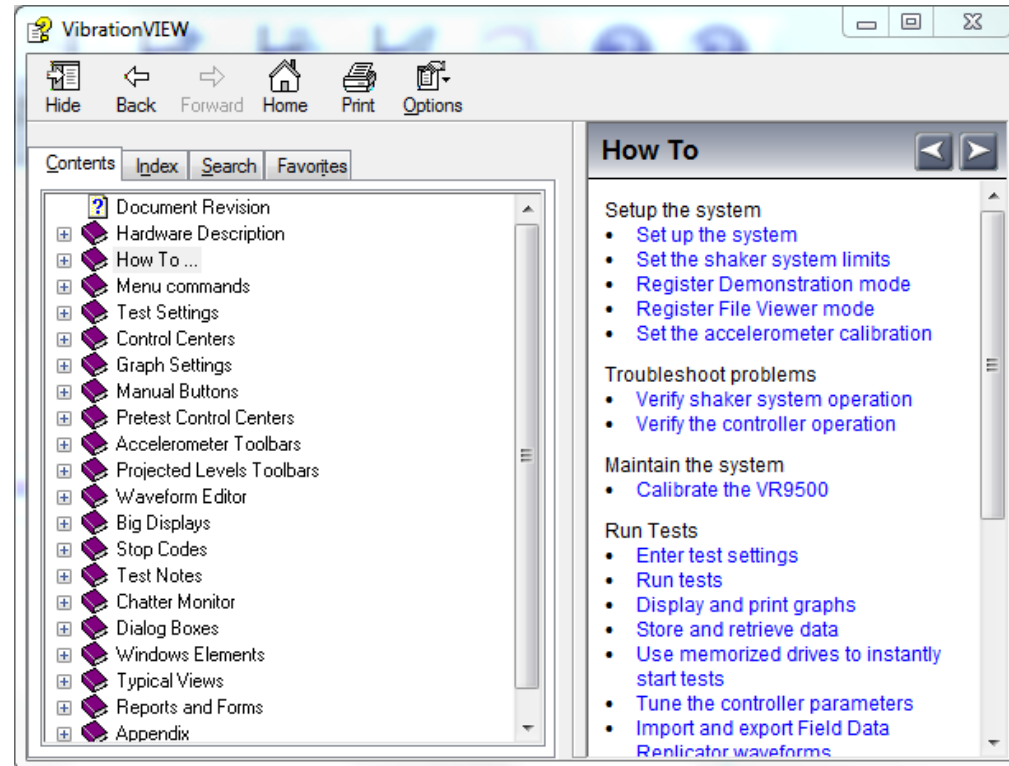
USING THE DISPLACEMENT WEDGE

- ❑ Verify that your system has the proper Configurations such as 'System Limits' and 'System Mass'
- ❑ Go into System Check mode in VibrationVIEW and set your desired displacement. Use a safe displacement and frequency for your displacement verification such as 30 Hz and 4 mm Pk-Pk for an Electro Dynamic shaker. Those using Hydraulic shakers should use a lower frequency (20 to 25 Hz)
- ❑ Attach the Displacement Wedge to the shaker head so that it is parallel to the axis of vibration. Either stick the Displacement Wedge to the shaker or hold it tight up against the edge
- ❑ Click  in the VibrationVIEW software to run the test on your shaker
- ❑ As the shaker head starts vibrating, the image will blur causing the white angled lines to cross. The point where they cross shows the actual displacement. In the example image below there is a displacement of 4 mm Pk-Pk
- ❑ Verify the displacement on the shaker matches what you have specified in the software



HELP FILE

- Review the Recommended Setup
- Search and Find Other How To Topics
- Finding and Sending Recent Test Data Files

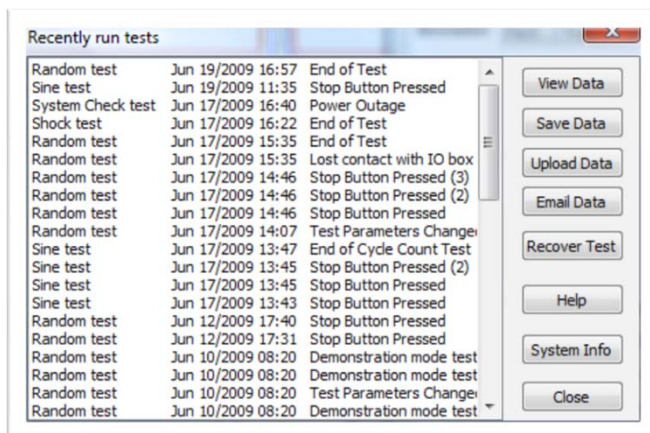


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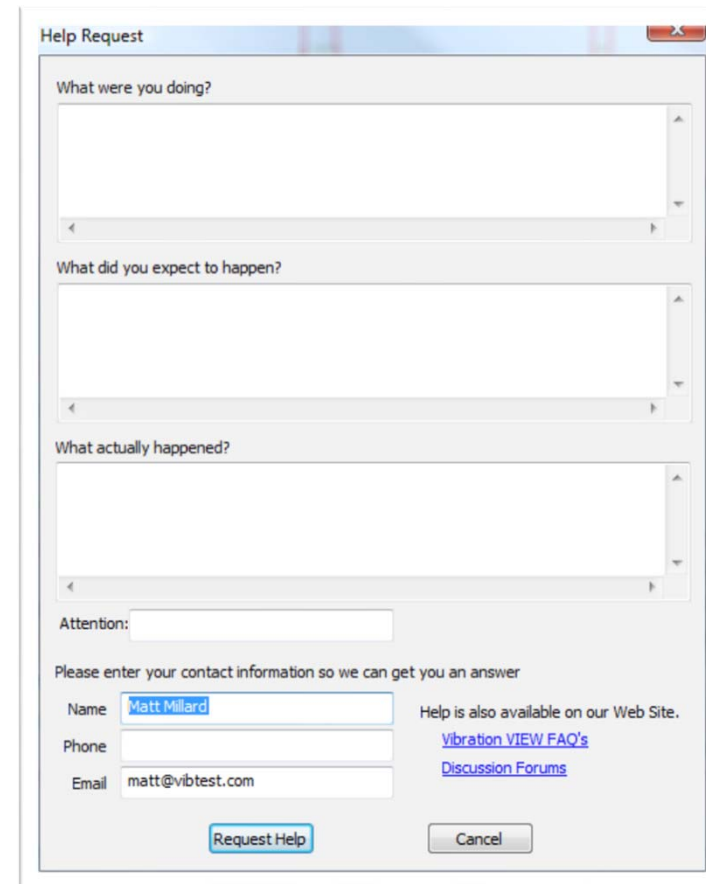
HELP WITH RECENT TESTS

- To get help with a test you have run recently: Click the Help file, then click Help with recent test
 - This allows you to email your data to a technician to analyze your data
- This gives you the data file listing of the last 50 tests you have run



Recently run tests		
Random test	Jun 19/2009 16:57	End of Test
Sine test	Jun 19/2009 11:35	Stop Button Pressed
System Check test	Jun 17/2009 16:40	Power Outage
Shock test	Jun 17/2009 16:22	End of Test
Random test	Jun 17/2009 15:35	End of Test
Random test	Jun 17/2009 15:35	Lost contact with IO box
Random test	Jun 17/2009 14:46	Stop Button Pressed (3)
Random test	Jun 17/2009 14:46	Stop Button Pressed (2)
Random test	Jun 17/2009 14:46	Stop Button Pressed
Random test	Jun 17/2009 14:07	Test Parameters Changed
Sine test	Jun 17/2009 13:47	End of Cycle Count Test
Sine test	Jun 17/2009 13:45	Stop Button Pressed (2)
Sine test	Jun 17/2009 13:45	Stop Button Pressed
Sine test	Jun 17/2009 13:43	Stop Button Pressed
Random test	Jun 12/2009 17:40	Stop Button Pressed
Random test	Jun 12/2009 17:31	Stop Button Pressed
Random test	Jun 10/2009 08:20	Demonstration mode test
Random test	Jun 10/2009 08:20	Demonstration mode test
Random test	Jun 10/2009 08:20	Test Parameters Changed
Random test	Jun 10/2009 08:20	Demonstration mode test

Buttons: View Data, Save Data, Upload Data, Email Data, Recover Test, Help, System Info, Close



Help Request

What were you doing?

What did you expect to happen?

What actually happened?

Attention:

Please enter your contact information so we can get you an answer

Name: Help is also available on our Web Site.

Phone:

Email:

[Vibration VIEW FAQ's](#)

[Discussion Forums](#)

