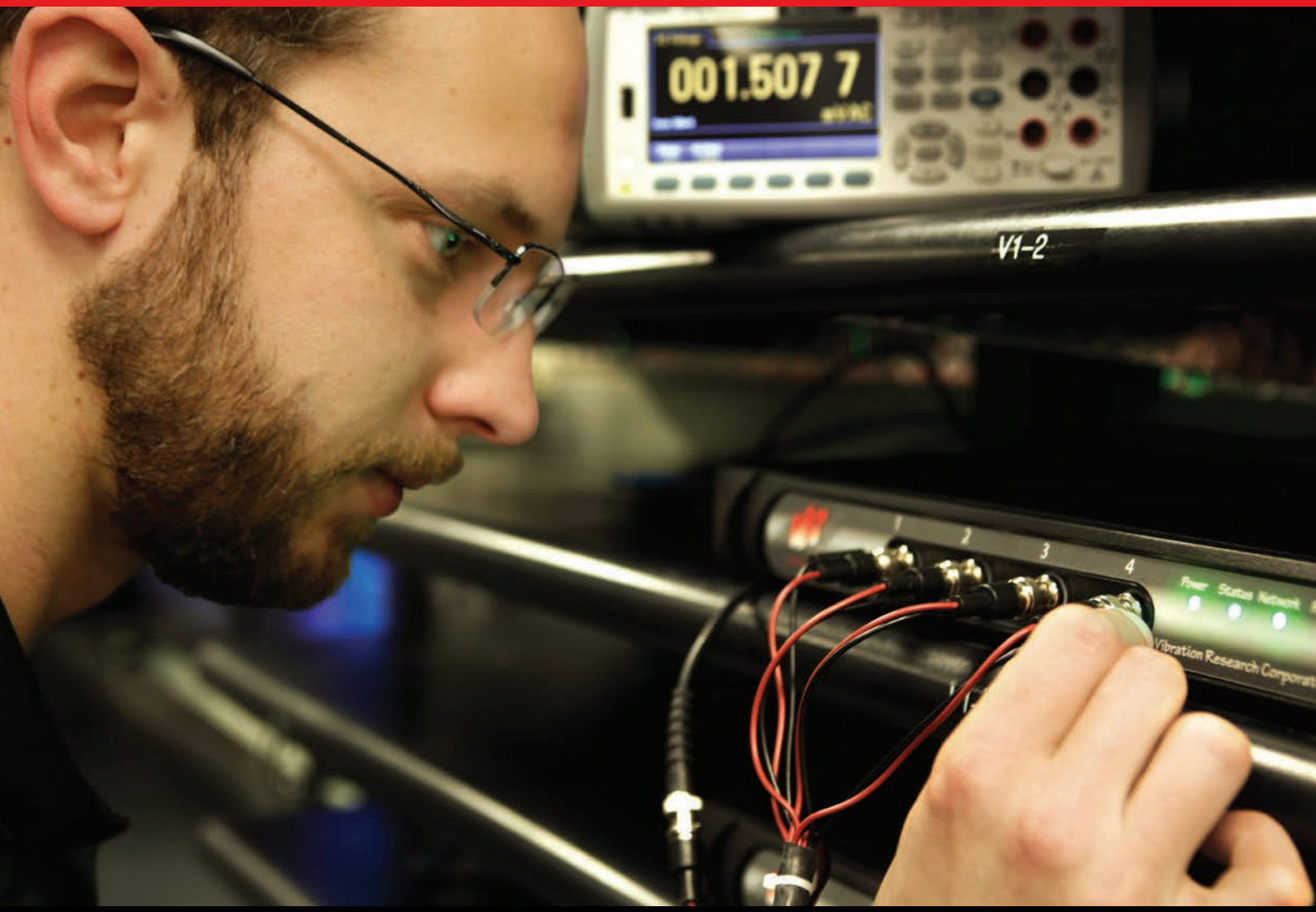
Vibration Research

The Innovator in Vibration Control

Quality | Reliability | Performance



VIBRATION RESEARCH

Company Overview

Celebrating over 20 years in business, U.S.-based Vibration Research (VR) is the innovator in vibration control. We listen to our customers' needs and offer testing products, software, and support that deliver unrivaled value. Our best-selling VR9500 Vibration Controller and easy-to-use VibrationVIEW software includes patented innovations used by in-house labs and contract testing labs. Our customers include engineers and technicians in transportation, aerospace, medical, and many more sectors across the world. VR's applications – such as iDOF®, FDS, FDR, and Kurtosion® - solve troublesome industry issues like over-testing, under-testing, and accelerating a test representative of a lifetime of fatigue. VR has satellite offices in China, Germany, the Czech Republic, Russia, U.K., and India.

Products

Quality and precision were on the mind of John Van Baren, Vibration Research's President & CEO, when he set out to develop the industry's best controller in the early 1990s. With advances in technology and a commitment to hiring and retaining the brightest minds in vibration control, the company's products help customers test real life scenarios in their labs. Our leading-edge products include:

Hardware

VR9500

Vibration Research's VR9500 controllers are specially designed and engineered to provide superior value, including reliable performance, accurate testing, and user-friendly features. You can expect more from our flagship product:

- Three-year hardware warranty
- Each controller individually tested
- Common hardware platform and built-in self-diagnostics
- Digital/Analog Remote Interface
- Compatible with any Shaker
- No special boards or special drivers needed
- Compatible with any PC in your lab
- Drag and drop capabilities
- 1U rack mount fits in 19" (482.6 mm rack)
- Robust and flexible reporting package
- User-editable report templates
- 1 to 128 BNC input channels with status lights
- Analog anti-aliasing filters
- Digital anti-aliasing filters
- Accelerometer constant current supply (4mA IEPE)
- TEDS (IEEE 1451.4) smart transducer interface
- Noise floor < 70nV²/Hz
- 1 to 4 Drive outputs for Shaker control
- COLA output to sync external equipment such as strobe lights
- Sample Rates to 200kHz

Medallion II

While our company is best known for our top-selling VR9500 Vibration Controller, we also offer the Medallion II, an economical alternative for our international customers who run basic vibration tests. This controller's features and functionality includes:

- One-year warranty
- 1U rack mount fits in a 19" (482.6 mm) amplifier rack
- Basic reporting package
- 4 to 16 input channels
- Analog anti-aliasing filters
- Digital anti-aliasing filters
- Accelerometer constant current supply (4mA IEPE)
- TEDS (IEEE 1451.4) smart transducer interface
- Digital Remote Interface
- Compatible with any Shaker
- Low noise floor

ObserVR

The ObserVR is a portable data acquisition and analysis device that records and facilitates the easy transfer of field data onto a laptop or tablet. The recorded data file can be optionally analyzed with FDS to generate a shaker ready accelerated life test, summarized to produce peak hold or averaged random test, or reproduced with a VR9500 controller and shaker as a field data replication time history test. Use the recorded data with VibrationVIEW seamlessly, or create a test that can be run with any shaker and any controller.

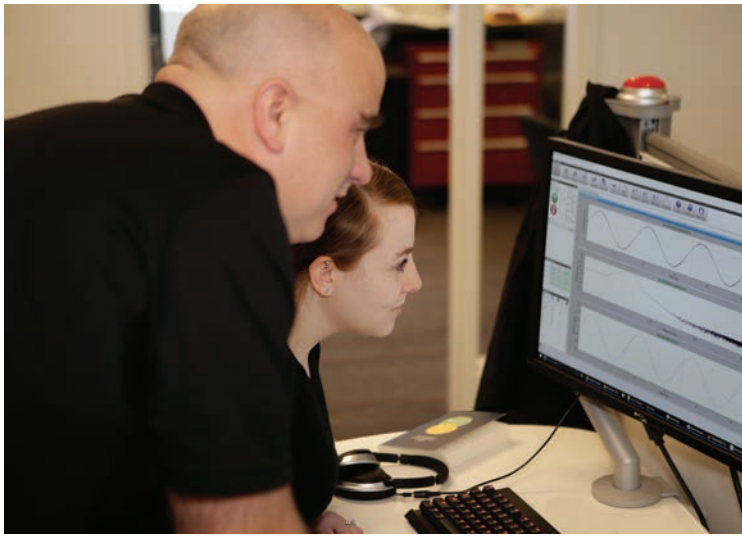
Small Force Shakers

Vibration Research offers four models of small force vibration test systems, each including a shaker and a matching linear power amplifier. Additional components may be added to the basic system to tailor it to your specific needs.

Software

VibrationVIEW

Intuitive, flexible and powerful, VibrationVIEW is Vibration Research's innovative software that is used to set up and monitor vibration tests and to perform automatic as well as custom reporting. The most current software runs on current versions of Microsoft Windows®. *Software versions are available to run on older Windows operating systems including WindowsXP.* VibrationVIEW offers the convenience of remote monitoring and control through the web and email. VibrationVIEW can be configured for one or more of the following standard test modules:



- System Check
- Sine
- Sine on Sine
- Random
- Sine on Random
- Random on Random
- Random Import
- Shock
- SRS
- Transient Capture
- User Defined Transient
- Field Data Replication

Test Module Innovations

The Vibration Research team is committed to solving our customers' challenges. From rapidly generating a test to model a product's life expectancy to preventing over and under testing, we create innovations that increase the accuracy and reduce the duration of vibration tests. Here are our company's proprietary test modules:

Fatigue Damage Spectrum ("FDS"): FDS gives engineers a reliable way to use real world data to create an accelerated life test that represents a lifetime of fatigue on a product.

Instant Degrees of Freedom® ("iDOF®"): iDOF®, our latest patented innovation, solves the problem of unknowingly over-testing and under-testing in random testing.

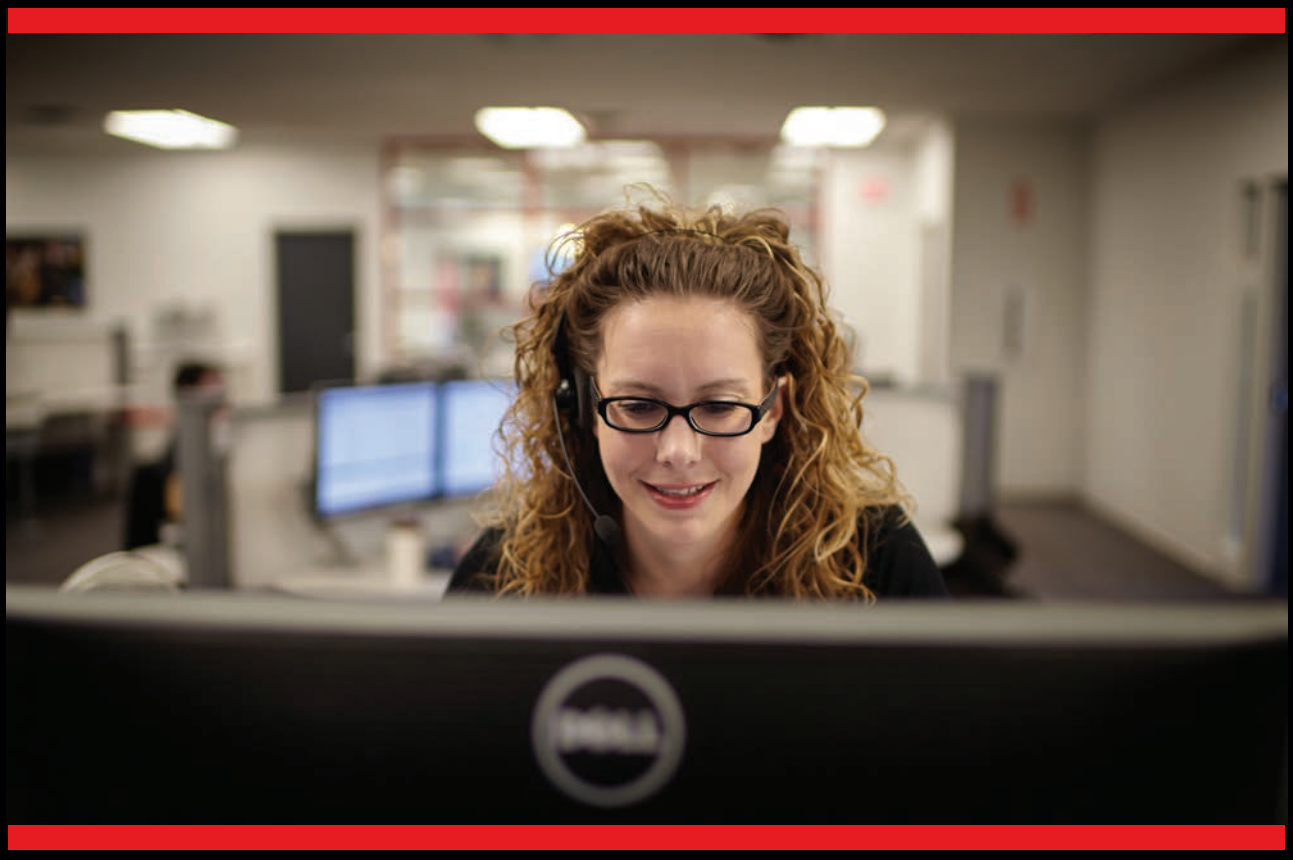
Kurtosion®: This innovation is a kurtosis control method that effectively brings real world peak acceleration back into the random vibration tests, making them more representative than traditional Gaussian methods.

Field Data Replication (FDR): Utilizing real-time adaptive control, FDR enables test engineers to accurately reproduce the actual acceleration waveforms measured in the field in their test lab.

Customer Service

At Vibration Research, we believe ongoing support is just as important as the initial installation. Ask about our:

- Dedicated customer support team
- VRU / Vibration Research University, a knowledge sharing community
- Upgrades and support agreements
- On-site and off-site training



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