

# Product Catalog

**VIBRATION CONTROL  
DYNAMIC SIGNAL ANALYSIS  
ELECTRODYNAMIC SHAKERS**

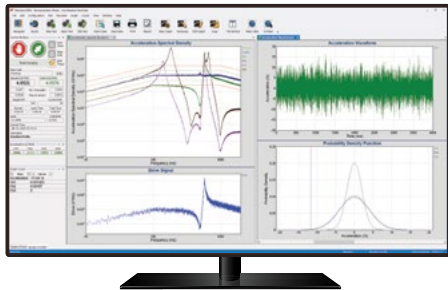


THE INNOVATOR IN  
**SOUND & VIBRATION  
TECHNOLOGY**

We Develop. You Advance.

# VR SOFTWARE

Our software packages run on all our hardware platforms and can be configured for as many or as few test modules as you like (à la carte). You may add more at any time. Test modules are also available to rent for short-term needs and are easily activated via electronic key.



## VibrationVIEW: Vibration Control

Set up and safely control vibration shaker tests using any VR hardware and generate customized reports. This advanced vibration control and analysis software solves troublesome issues in vibration testing.

- Sine
- Shock
- SoS
- SRS
- Recorder
- Random
- SRTD
- SoR
- T-Cap
- And more

Explore each module at [vibrationresearch.com/software/vibrationview](http://vibrationresearch.com/software/vibrationview)



## ObserVIEW: Dynamic Signal Analysis

View, edit, and analyze waveforms from recorded or live data. This powerful and efficient vibration analysis software package includes specialized modules for waveform recording and test generation.

- Order Analysis
- Media Sync
- Modal Testing
- STAG
- FFT Analysis
- PSD Analysis
- SRS
- And more

Explore each module at [vibrationresearch.com/software/obserview](http://vibrationresearch.com/software/obserview)

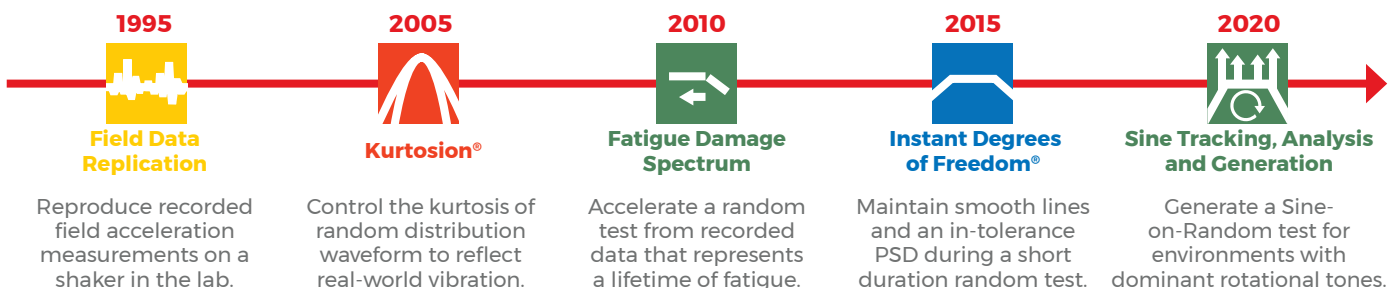
## TEST TYPES

3-Axis  
Buzz, Squeak, and Rattle (BSR)  
DC Offset  
Multi-Loop Phase Control

Dual Loop  
Environmental  
Four Poster  
IEEE - 344

Rotary  
Shake and Bake  
Single-Axis  
**And more**

# ALWAYS INNOVATING



Compatible With All Shakers.

# VIBRATION CONTROLLERS

Vibration Research hardware just works—period. It is designed and engineered to provide superior value, including exceptional performance, accurate testing, and user-friendly features. The controllers use a standard hardware platform and include pre-shipment testing and a hardware warranty for ensured reliability.



**VR9500® Vibration Controller**

Up to 128 channels  
Lifetime warranty

Up to 200kHz sample rate  
2 outputs

Single core processor  
24-bit inputs & outputs



**VR10500® Vibration Controller**

Up to 512 channels  
Lifetime warranty

Up to 256kHz sample rate  
4 outputs; multiple shakers

Quad core processor  
24-bit inputs 32-bit outputs



**ObserVR1000® Vibration Controller  
and Portable Dynamic Signal Analyzer**

Up to 128 channels  
1-year warranty  
128kHz sample rate  
802.11 b/g/n WiFi & gigabit Ethernet  
24-bit analog to digital converter  
6+ hour battery life

Turn-key Solutions.

# SHAKER SYSTEMS

Systems consist of a shaker, a matched power amplifier, and a vibration controller. VR shakers are designed and manufactured as a turn-key solution.



**Electrodynamic Shaker Systems** (offered by VR):

- 13F-lb to 600F-lb | 6kg-F to 275kg-F
- Includes linear power amplifier
- Typically up to 4,500Hz | 14,000Hz available
- Larger shakers & multi-axis solutions are available



**Accelerometer  
Calibration Packages**

## Already Have A Shaker?

Update any existing shaker by replacing your controller with a VR controller for better testing results. Ask about our controller trade-in discount!



**ELECTRODYNAMIC | SERVO-HYDRAULIC | MECHANICAL | DROP SHOCK | PIEZO-ELECTRIC | LINEAR**

Autonomous Smart Setup.

# DATA ACQUISITION

Easily set up the ObserVR1000 using only a phone. Collect data with the press of a button using the battery-powered ObserVR1000 hardware and VR Mobile. Stream every simultaneously sampled channel to the SD card up to 128kHz.



## VIBRATION RESEARCH

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# VIBRATION RESEARCH

Vibration Research is the innovator in vibration control and data acquisition, developing its product line in Michigan, USA since 1995. Its applications solve troublesome industry issues such as test equivalency, end-use environment comparisons, and test acceleration. It is the premier choice of vibration testing labs around the globe.

VR recognizes that providing exceptional support significantly contributes to its customers' long-term success. That support is part of a recipe that combines versatile software with dependable hardware. Committed to advancements in technology and continued education, the company strives to innovate at the foundation of everything it does so that its customers can be their best.

### UNLIMITED TECHNICAL SUPPORT

- Dedicated customer support at the US headquarters
- Upgrade and support agreements
- Free software demo downloads
- Free hardware demo units
- Free webinars
- Live stream and in-person user training seminars
- Vibration Research University (VRU)

## VIBRATIONRESEARCH.COM

GLOBAL OFFICES: CHINA | CZECH REPUBLIC | GERMANY | INDIA | RUSSIA | UNITED KINGDOM

