

Product Catalog

Vibration Control
Portable Data Acquisition & Analyzer
Electro-dynamic Shakers



The Innovator in Sound and Vibration Technology



Hardware

Vibration Research's controllers and data acquisition devices are specially designed and engineered to provide superior value, including reliable performance, accurate testing, and user-friendly features.

VR9500 - Vibration Controller

The VR9500 does not require any special boards or special PC drivers. Our customers are able to use any PC in their labs or simply connect to their laptops. Ready to get started? Simply plug in the Ethernet cable and begin testing.



- Compatible with any shaker
- Lifetime hardware warranty
- Common hardware platform and built-in self-diagnostics
- Digital/Analog remote interface
- Flexible reporting packages
- Drag and drop capabilities with Microsoft® Word & Excel
- User-editable report templates
- 1U rack mount fits in 19" (482.6 mm rack)
- 1 to 128 BNC input channels with status lights
- Digital/Analog anti-aliasing filters
- Accelerometer constant current supply (4mA IEPE)
- TEDS (IEEE 1451.4) smart transducer interface
- Noise floor <math>< 70\text{nV}^2/\sqrt{\text{Hz}}</math>
- 1 to 4 Drive outputs for shaker control
- COLA output to sync external equipment (i.e. strobe lights)
- Sample rates to 200kHz

ObserVR1000 - Portable Data Acquisition and Analyzer

The ObserVR1000 does not require special boards, PC drivers, or even a PC. Ready to get started? Simply connect a handheld device or PC to set up the ObserVR1000. Once set up, data can be collected with a simple press of the record button.

- 4 or 16 channel configurations (1 BNC input channel, 15 triaxial input channels)
- 128kHz Sample Rate
- IEEE 1451.4 TEDS Class 1
- IEPE signal conditioner (2.1mA)
- WiFi connection
- 6+ hour battery Life
- GPS
- Tachometer Inputs
- Gigabit Ethernet - 802.11 b/g/n
- +/-10V Range
- 24-bit ADC
- Intuitive software
- Confidence in field recording
- 1 year warranty



Compatible with ALL Shakers

ELECTRO-DYNAMIC SHAKERS · SERVO-HYDRAULIC SHAKERS · MECHANICAL SHAKERS · PIEZO-ELECTRIC SHAKERS · DROP SHOCK MACHINES · SERVO-ELECTRIC SHAKERS

Vibration Research Electro-Dynamic Shaker Systems



- 13 lb/6kg-f to 500lb/227kg-f
- Buzz Squeak Rattle
- Includes linear power amplifier
- DC to 4500Hz (14,000Hz available for accel cal)
- Integrated field supply
- Cooling vacuum
- Vibration Isolation Mounts
- Modal Stingers and Mounts
- DuoBase horizontal/vertical table

Already Have a Shaker?

Update any existing shaker with our vibration controller for better testing results.



Software: VibrationVIEW and ObserVIEW

SINE • SINE RESONANCE TRACK AND DWELL • RANDOM • SHOCK • SINE-ON-RANDOM • RANDOM-ON-RANDOM • SHOCK RESPONSE SPECTRUM (SRS) • TRANSIENT CAPTURE • FIELD DATA REPLICATION (FDR) • KURTOSION® • FATIGUE DAMAGE SPECTRUM (FDS) • INSTANT DEGREES OF FREEDOM® (IDOF) • RECORDER

Intuitive. Flexible. Powerful.

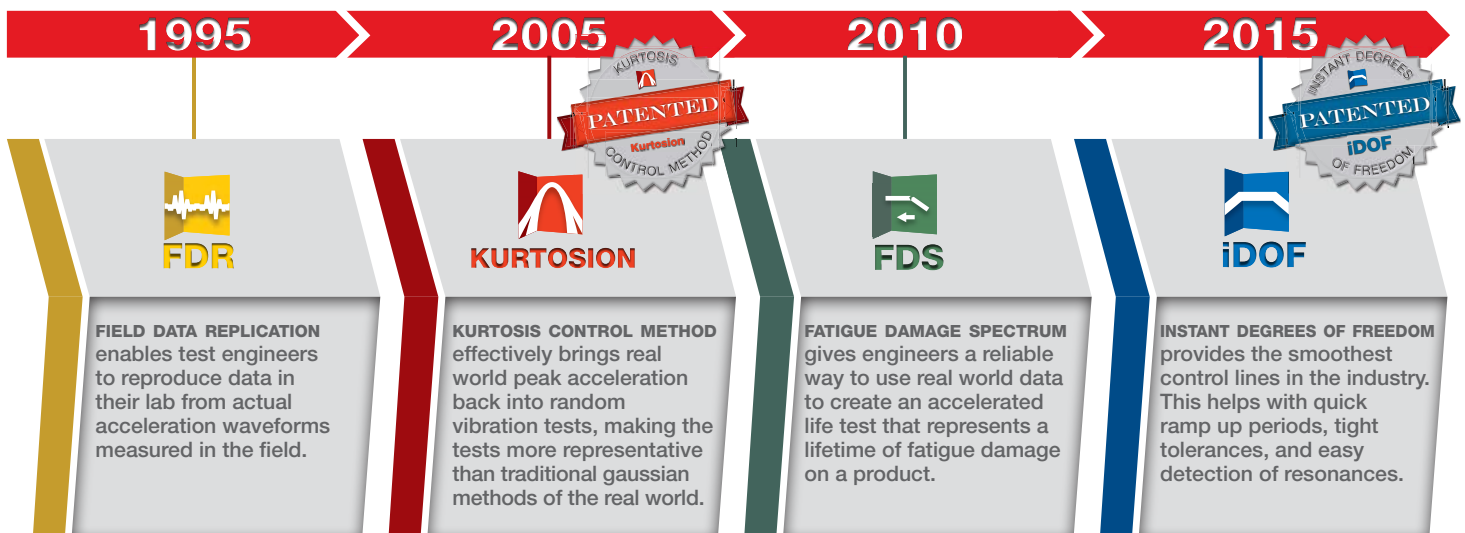
Vibration Research's innovative software is used to set up and monitor vibration tests, record and analyze data, and perform automatic/custom reporting. You need at least one major software module to get started, but can add more at any time in the future. In fact, our modules are activated by electronic keys, so you can even rent modules if you find you have short-term needs for specific tests.

- Intuitive: easy set-up and monitoring
- Runs on current versions of Microsoft® Windows
- Tailor-made: alternate units to measure sound pressure, micro strain, or any other engineering unit, allowing you to customize the inputs and graphs to your needs
- Automatic reporting using Microsoft® Word & Excel
- Fully customizable report templates
- Remote monitoring and control via the web and E-mail
- Integrated: use remote inputs and outputs to control and/or monitor other devices such as amplifiers and blowers



Innovations

The Vibration Research team is committed to solving our customers' challenges. From rapidly generating a test to modeling 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.



Vibration Research

Celebrating over twenty years in business, Vibration Research (VR) is the innovator in vibration control and data acquisition. We listen to our customers' needs and offer testing products, software, and support that deliver unrivaled value. Our customers include engineers and technicians in automotive, transportation, aerospace, medical, military, and more sectors around the world. VR's applications solve troublesome industry issues such as test equivalency, end use environment comparisons, and test acceleration. VR has satellite offices in China, the Czech Republic, Germany, India, Russia, and the UK.

Customer Support

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

- Dedicated customer support team
- Vibration Research University (VRU), a knowledge sharing community
- Upgrades and support agreements
- On-site and off-site training
- Calibration verification services



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