

The Revolution is here! Are you ready?

How many times have you looked at a new sports car and thought, “Wow! That is one cool car. I wonder what’s under the hood? That’s got to have some serious horsepower, not to mention the torque to blow a guy away at a stop light.”

Well, the team of engineers at Vibration Research thinks that way also. Not only about cars, but also about the shaker control products they make for their customers. That’s why Vibration Research has introduced its fourth-generation hardware platform for its vibration controller product line. The VR9500 Revolution brings to market the latest advances in state-of-the-art hardware technology, providing a leap forward today and opening doors for even more innovative vibration control strategies from VR in the future.

The new VR9500 Revolution controller cranks out some serious “horsepower.” This machine has an advanced superscalar RISC processor with two 32-bit RISC coprocessors capable of processing over 1.2 billion instructions each second, supporting gigabit Ethernet, 1 GB of error-correcting RAM, and over 240 sample rates from 100 Hz to over 100 kHz. Inputs have LED status indication, self-resetting fuse protection, and are tolerant of up to 200 volts to keep you protected

from that occasional “oops” moment.

You like a quiet car? Not too often will you find a high-performance car that is also quiet. Well, VR has you covered not only on performance, but the VR9500 Revolution is also extremely quiet with a noise floor below $70 \text{ nV} / \sqrt{\text{Hz}}$.

You may have heard dynamic range claims. You may have read articles about dynamic range in this very publication. So what kind of dynamic range can the VR9500 produce? Greater than 100 dB random dynamic range and over 140 dB sine dynamic range is delivered by the VR9500 Revolution. “What about spurious-free dynamic range?” you might ask. That’s greater than 140 dBFS.

“How fast can this baby go?” might be another big question that comes to mind when you eye that sports car. With the high-frequency option, the VR9500 Revolution is capable of controlling up to 32 kHz in sine and random.

You like tight steering to help you take control in the corners? So does the engineering team at VR. That’s why they have upped the ante with 26,000 lines of resolution available for random vibration control, allowing for an incredible 0.2 Hz resolution out to 5 kHz or 0.5 Hz resolution



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to beyond 10 kHz. The VR9500 Revolution might better have been named the “VR9500 Resolution” with numbers like that. The competition has been staggering for years trying to catch up to the 13,000 lines that VR offered in the previous generation VR8500 system. With the sophisticated update rate technology incorporated into the software algorithms, the VR9500 Revolution can give fast loop times with world leading resolution.

Maybe you’ve started to see a pattern here. Vibration Research is serious about performance. This high performance, coupled with the full featured and easy-to-use software, makes the VR9500 Revolution the premiere vibration control system available today.

To learn more about the Vibration Research product line, please visit www.vibrationresearch.com to learn more and find a sales rep near you who can schedule an on-site demonstration of the superior technology VR has to offer with the new VR9500 Revolution.