VIBRATION RESEARCH

RELIABILITY MEETS INNOVATION

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VR10500 VIBRATION CONTROLLER



Up to 512 channels, 16-channel units (mix-n-match)
Control sine/random/shock vibration to 50,000Hz
104,000 lines of resolution
Total harmonic distortion < -100dB THD+N
Remote inputs/outputs including Tachometer
Emergency stop

INPUT CHANNELS	
Channel Specifications	Single-ended with 100 kΩ impedance Custom units can be defined for other sensor types Switchable isolation
Protected	200 V tolerant inputs protect your device from transients
Resolution	24-bit
Dynamic Range	> 100 dB > 130 dB with tracking filters
Noise Floor	< 50nV/√Hz
Sample Rate	256 kHz simultaneous sample rate
Filtering	Analog multiple pole anti-aliasing filter and digital anti-aliasing filter with >105 dB attenuation
Voltage Range	±1 V and ±10 V: 100 kΩ input impedance ±0.5 V and ±5 V: 10 MΩ input impedance
Set-up Parameters	Accelerometer constant current supply: 4mA IEPE TEDS transducer interface
OUTPUT CHANNELS	
Channel Type	Four analog, two digital
Filtering	Analog multiple pole reconstruction filter
Resolution	32-bit
Voltage Range	±10V
Frequency Range	50,000 Hz, 216,000 samples per second
Other	Safety relay prevents shaker, amplifier, and product damage from transient Optionally drive a differential input or COLA device 4 independent or phase controlled outputs to drive multiple shakers

DARE TO COMPARE - FOR 30 DAYS

Skeptical that we cannot meet your standards? Put us to the test. VR packages run on all our hardware platforms. Whether you need a brand-new system or a replacement controller, we will let you try our hardware and software **fully enabled for 30 days**. Once you use them, we think you'll be hooked.

MIX-N-MATCH

Each module can be used independently on separate shakers or together in a single stack for jobs requiring a higher channel count. This economic solution creates substantial cost savings for our customers.

WARRANTY

VR hardware ships with a 3-year warranty that can be extended for the **lifetime** of the product through the continual renewal (no lapse) of an upgrades and support agreement.

VIBRATION RESEARCH Lifetime Hardware WARRANTY

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