

# Controller

## Amber Vibration Controller



### Best solution of the vibration shaker control

Amber vibration controller adopts the highest performance floating-point DSP processor from U.S. TI Company, to achieve the high performance and high reliability of the products combining with 24-bit high-precision module / digital conversion and digital / module conversion technology through the stable PCI plug-in system architecture. Amber vibration controller hardware has two synchronous input channels and one output channel. The software has four functions of random, sine, classic shock and RSTD. Amber vibration controller is a vibration control solution with higher cost performance.



## Technical Features

- Using the latest proven technology and having the highest degree of hardware integration in the industry.
- With PCI bus architecture, having the high-speed communication speed and excellent compatibility.
- Innovative ALL-IN-ONE input interface to adapt to a variety of sensor inputs.
- Safe output protection circuit to protect the safety of the specimen and test system.
- User-friendly software interface, easy to learn and use.
- Excellent control performance and control accuracy, with maximum random line number of 3200
- Min. sine sweep frequency is 1Hz.
- A WORD report can be automatically or manually generated
- Online control with Dongling power amplifier.



## Technical Parameters

- Maximum voltage input range:  $\pm 10V$
- Maximum charge input range: the  $\pm 10000PC$
- Input interface can be connected directly to the ICP and charge type acceleration sensor
- Or direct voltage signal input
- Maximum output voltage range: 10V
- Randomized controlled dynamic range: 90dB
- Max. random spectral line number: 3200
- Sinusoidal control and RSTD dynamic range: 95dB
- Frequency range: 1 Hz to 5000 Hz
- Typical impact control dynamic range: 90dB
- Frequency range: 0 to 21000Hz
- Pulse duration: 0.5 to 3000ms
- Many control strategies: single-channel, multi-channel weighted average, multi-channel maximum value, and multi-channel minimum value

