VIBRATION RESEARCH

RELIABILITY MEETS INNOVATION

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OBSERVR1000
DYNAMIC SIGNAL ANALYZER



- **Up to 128 channels**
- **WiFi connection 802.11 b/g/n**
- **Gigabit Ethernet**
- **GPS (optional)**
- **6+ hour battery life**
- **Digital Inputs/Outputs**
- **2 Tachometer Inputs**
- **Emergency stop**
- **Onboard memory SD card**
- **Audio input jack**
- **3.3 lbs**
- **9.82" L x 6.33" W x 2.18" H**

INPUT CHANNELS	
Channel Specifications	128 kHz sample rate TEDS transducer interface IEPE signal condition (2.1 mA) Custom units can be defined for other sensor types
Protected	40 V tolerant inputs protect your device from transients
Resolution	24-bit
Dynamic Range	> 110 dB > 130 dB with tracking filters
Noise Floor	<90nV/√Hz
Filtering	Analog multiple pole anti-aliasing filter and digital anti-aliasing filter with >95 dB attenuation
Voltage Range	±1 V and ±10 V: 100 kΩ input impedance ±0.25 V and ±2.5 V: 22 MΩ input impedance
OUTPUT CHANNELS	
Filtering	Analog multiple pole reconstruction filter
Resolution	24-bit
Voltage Range	±10 V
Freq. Range	20,000 Hz
Other	Safety relay prevents shaker, amplifier, and product damage from transient

VIBRATION CONTROL

Conveniently use the ObserVR1000 to drive electrodynamic or servo-hydraulic shakers up to 20,000 Hz in Sine, Random, or Shock with 26,000 lines of resolution and <100 dB THD+N.

STANDARDS

The ObserVR1000 has been tested to the following reliability standards:

Operational Temperature -20° C to 55° C
IEC 60068-2-64 | 5 grms, 10 Hz to 500 Hz
IEC 60068-2-6 | 5 g (peak), 10 Hz to 500 Hz
IEC 60068-2-27 | 30 g, 11 ms half sine, 18 shocks at 6 orientations
IEC 60068-2-27 | 50 g, 3 ms half sine, 18 shocks at 6 orientations, Drop of 1 meter onto a hard surface

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.

WARRANTY

VR hardware ships with a 1-year hardware warranty; VR warrants the hardware to be free of defects in material and craftsmanship.

VibrationResearch.com/products/vr-mobile

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