



THE INNOVATOR IN  
**SOUND & VIBRATION  
TECHNOLOGY**

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# OBSERV1000<sup>®</sup> Dynamic Signal Analyzer

Easily collect data with the press of a button using the battery-powered ObserVR1000 hardware, a smart phone, and the VR Mobile application. Stream simultaneously sampled channels to the SD card up to 128kHz.



## GENERAL SPECIFICATIONS

- Up to 128 channels
- WiFi connection 802.11 b/g/n
- Gigabit Ethernet
- GPS
- 6+ hour battery life
- Digital Inputs/Outputs
- 2 Tachometer Inputs
- Emergency stop
- Onboard memory SD card
- Audio input jack
- 3.3lbs | 1.5kg
- 9.82" L x 6.33" W x 2.18" H

## OUTPUT CHANNEL

**Frequency Range** 20,000Hz

**Voltage Range** ±10V

### Filtering

Analog multiple pole filter plus a digital filter

Analog reconstruction filters

**Resolution** 24-bit

### Other

Safety relay prevents shaker, amplifier, and product damage from transient

## INPUT CHANNELS

- 128kHz sample rate
- TEDS transducer interface
- IEPE signal condition (2.1mA)
- Custom units can be defined for other sensor types

### Protected

40V tolerant inputs protect your device from transients

**Resolution** 24-bit

### Dynamic Range

> 110dB dynamic range

> 130dB with tracking filters

### Filtering

Analog multiple pole anti-aliasing filter and digital anti-aliasing filter with >95dB attenuation

**Noise Floor** <90nV/√Hz

### Voltage Range

±1V, ±10V: 100kΩ input impedance

±0.25V, ±2.5V:

22MΩ input impedance

## DARE TO COMPARE - FOR 30 DAYS.

Skeptical that we can't meet your standards? Put us to the test. We'll let you try our products for 30 days. Once you use them, we think you'll be hooked.

## WARRANTY

One-year hardware warranty; VR warrants the hardware to be free of defects in material and craftsmanship.



### Tested to the following reliability standards:

IEC 60068-2-64  
5grms, 10Hz to 500Hz

IEC 60068-2-6  
5g (peak), 10Hz to 500Hz

IEC 60068-2-27  
30g, 11ms half sine, 18 shocks at 6 orientations

IEC 60068-2-27  
50g, 3ms half sine, 18 shocks at 6 orientations. Drop of 1 meter onto a hard surface.

## VIBRATION CONTROL

Conveniently use the ObserVR1000 to drive electrodynamic or servo-hydraulic shakers up to 20,000Hz in Sine, Random, or Shock with 26,000 lines of resolution and <100dB THD+N. Scalable as a controller in 16 to 128 channels.