OBSERVR 1000® 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.

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

 \pm 1V, \pm 10V: 100k Ω input impedance \pm 0.25V, \pm 2.5V: 22M Ω input impedance

DARE TO COMPARE -

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:

Operational Temperature -20°C to 55°C

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.

GENERAL SPECIFICATIONS

- 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
- 3.3lbs | 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 reconstruction filters

Resolution 24-bit

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 20,000Hz in Sine, Random, or Shock with 26,000 lines of resolution and <100dB THD+N.