

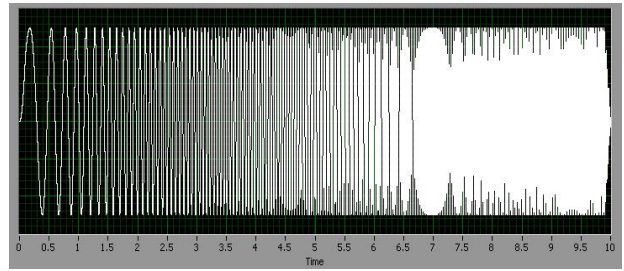
SweepFreq

Vibrator control software



Vibrator controller software

The SweepFreq vibrator control software is designed to control the Elvis micro vibrator from Geosym when running in conjunction with the Geode or StrataVisor NZXP seismograph from Geometrics.



Linear Sweep Mode

Full operator control over linear or logarithmic sweep

If used in conjunction with a Geode system running MGOS, SweepFreq can even run on the same PC as is used to control the Geodes, thus reducing the amount of hardware required in the field.

SweepFreq allows full operator control over the sweep parameters by a simple mouse click, thus enabling the operator to

experiment in the field to arrive at the optimum vibrator sweep parameters for the field site, a particularly important function of seismic data acquisition using a vibrator in order to obtain the best possible data quality.

If you want to change from a linear to a logarithmic sweep, simply choose 'logarithmic' from the Sweep mode pull down list and its done, similarly the operator and dial in the exact start and stop frequency in order to maximize the

ground response to the vibrator.

A full waveform graphic display shows the programmed sweep so the operator has real time feedback in order to QC the pilot trace and the seismic data.

Start Frequency (Hz) 30

End Frequency (Hz) 250

Duration (s) 10

Invert phase

User has full control over frequency bandwidth

SweepFreq components:

SweepFreq software for Windows XP or Vista.

Pre amplifier driver/module for Elvis vibrator

Interface lead to trigger input of Geode (Serial or USB using a serial/USB converter)

Audio output/pre-amplifier lead

Pre-amplifier module to pilot trace lead

Pre-amplifier to Elvis driver input lead.

Specifications

- 5 to 500 Hz bandwidth
- Linear, logarithmic or quadratic sweep
- Up or down sweep
- Inverse phase function
- No maximum sweep length

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Features

- Runs under Windows XP/Vista
- Compatible with Geosym Elvis micro vibrator system
- Compatible with Geode and StrataVisor seismographs from Geometrics
- Can run on same PC as Geode/MGOS