

# SSU 5500

The SSU 5500 is a convenient, easy to use complete vibration and sound monitoring system. Its most significant feature is the removable 128 MB CompactFlash™ memory card. The card greatly increases memory allowing the 5500 to record 10,000 full waveform events regardless of recording time. Data from the card can be transferred using any compact flash PC card slot (internal or USB). It has a tough, weather resistant case, full QWERTY-style keyboard and heavy-duty twist-lock metal cable connectors. External ports allow the case to remain closed during monitoring operations. A large thermal printer provides for instant reports in the field. The 2-hertz high-pass microphone and all other standard accessories fit easily into the case. The four-line LCD makes on-site programming easy and permits the user to view results on-screen. The integrated timer will turn the unit on and off at pre-selected times to conserve battery power. The timesaving template utility can be used to store repetitive setup configurations.

The SSU 5500 has three recording modes: 1) triggered - either seismic or sound, 2) continuous (histogram) and 3) sustained trigger. Sustained trigger mode delays processing and permits real time collection of contiguous waveform data up to a cumulative total of approximately 4.2 minutes. Data can be collected in either imperial (US customary) or metric units. The included basic compliance and reporting software package can be used for analysis and preparation of standard or customized reports.

GeoSonics® is a leader in seismograph innovation, design, manufacturing and vibration consulting. Because we use the equipment we design, a user-friendly interface, ruggedness and reliability are not just goals – they are standards.

*GeoSonics® ...always a step ahead!*

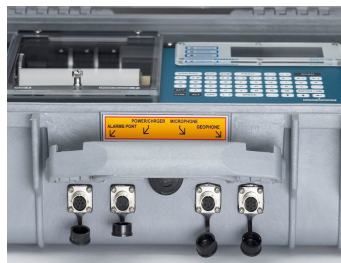
## Features & Specifications



Removable 128 MB CompactFlash™ memory card able to record 10,000 full waveform events.



A full QWERTY keyboard, 80 character LCD screen and thermal printer make the SSU 5500 very user friendly.



Instrument connection ports come standard with caps to protect connecting pins.

### STANDARD FEATURES:

- Removable 128 MB Compact Flash™ data card with 10,000 event memory regardless of record type or size.
- Four-line by 20-character LCD for on-site data display.
- Full QWERTY-style keyboard with shortcut buttons.
- 42 column facsimile-style printer.
- Heavy-duty twist-lock metal cable connectors.
- Internal, rechargeable lead acid batteries.
- Flexible interface and extensive options available for custom configurations.

### GENERAL SPECIFICATIONS:

- Weight: 22.2 lbs (10.1 kg)
- Dimensions: 16 x 13 x 6.75 in (41 x 33 x 17 cm).
- Operating Temperature: 0 to 130° F (-18 to 54° C).
- One (1) year warranty on parts and labor.
- Extended warranties and service contracts also available.
- 42 column thermal linehead printer with motor-drive take-up; up to 140 events per roll of paper.

### RECORDING MODES:

#### Seismic Trigger:

Resolution:	0.0025 in/sec. (0.06 mm/sec.).
Printout graph time scaling:	From 0.5 to 5 inches for 1 second (5 second recording).
Range:	Up to 5.120 in/sec. (130 mm/sec.) (other ranges available).
Frequency Response Range:	2 to 250 Hz (3 dB) / 2 to 1,000 Hz (Nyquist).
Sampling Rate:	Up to 2,000 samples / second / channel.
Recording Intervals:	1 to 15 seconds.
Accuracy:	5% within one year (multipoint calibration within 3%).
Calibration:	Internal dynamic.
Range (Linear):	78 to 142 dB (other ranges available).
Frequency Range (3 dB):	2 to 250 Hz (3 dB) / 2 to 1,000 Hz (Nyquist).
Accuracy:	±10% or 1 dB within one year (multi-frequency calibrated).
Calibration:	Internal electronic.
Recording Intervals:	Selectable: 1,2,5,10,15,30 and 60 seconds.
Printout, list:	Prints highest peak particle velocity and maximum overpressure during selected intervals.
Printout, graph:	Histogram of highest PPV and air overpressure as a bar graph with optional summary printed based on selected number of intervals per summary.
Multiple record/real time:	Consecutive waveform recordings up to 4.2 minutes

#### Sound Trigger:

#### Continuous (Histogram):

#### Sustained Trigger:

### STANDARD FEATURES (Continued):

- Two (2) independent threshold alarm output ports.
- External geophone meets ISEE density recommendations.
- Toughest weather resistant structural case on the market.
- Six (6) template locations for recurring set up data.
- Imperial and metric operation.
- Free standard analysis and compliance software.
- Designed & manufactured in the USA.

### OPTIONAL ACCESSORIES:

- Hydrophones (instrument modifications required).
- Accelerometers to 50 g's or higher (instrument modifications required).
- Amplifiers (10x-100x).
- Optically isolated dual alarm control for dialers, pagers and remote alarm notifications.
- Advanced seismic analysis software package.