SDI Silicon Designs Inc.

Model 3340 G-Logger Data Acquisition System

- Start and stop data acquisitions with button and/or schedule
- Collect information on peak
- View a list of peak events and event data in any display mode
- Add a GPS module to also collect GPS data
- Uses internal battery power, external power packs or AC power
- Compatible with Silicon Designs accelerometers
- Automatic and manual calibration routines via +/-1G flip
- Adjustable filters and FFT for live or post collection data analysis
- Included software features familiar and convenient user interface built on a LabView platform
- Three input channels for three 1- axis modules or one 3-axis module
- 16-bit sample rates from 1 to 10,000 samples/second per axis
- Automatic setup in less than 5 minutes upon wiring of Silicon Designs accelerometer modules

SPECIFICATIONS

PHYSICAL		ENVIRONMENTAL	
Case Size	5.5" x 4.25" x 2.5"	Operating Temperature	0°C to +55°C (max)
Weight	425 grams / 15 oz. + batteries	Storage Temperature	-40°C to +85°C (max)
Case Material	Die Cast Aluminum, Plastic	Humidity	0% - 90% Non-condensing

OPERATIONAL		PC REQUIREMENTS	
Connection	25 Pin Female D-Sub	Operating Systems	Windows 10, 8, 7, XP
USB Connection	Micro USB (B)	Host Connection	USB2 Type A
Memory Type	SD Card, Micro SD w/ Adaptor	Power Supply	USB/AC Power/AA Batteries
Max SD Card Size	32 GB	Max Power Consumption	750 mW
		TCP/IP Remote Operation	Network Connection Req.

ZERO (DC) TO MEDIUM FREQUENCY APPLICATIONS

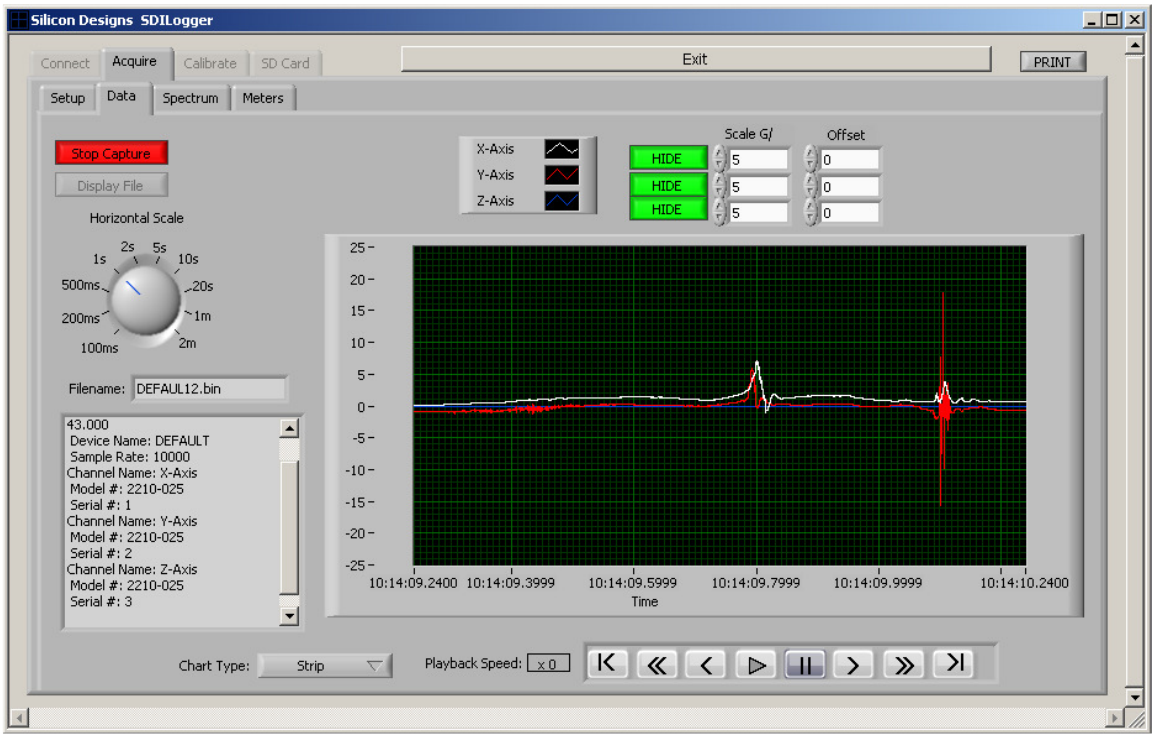
ROBOTICS SEISMIC TILT VIBRATION AUTOMOTIVE IMPACT INSTRUMENTATION MONITOR OEM

ADDITIONAL FEATURES

- Real time data monitoring
- Collect data in G or volts
- Display shows from 100ms to 2 minutes of data
- FFT (Fast Fourier Transform) analysis is an advanced feature usually found on much more expensive DAQ systems
- Independent scale G/Div settings expand or shrink each channel's input for better visibility
- collection
- PAUSE, RWD, FWD without interrupting data
- Optional offsets provide a staggered display for no overlap
- Independent scale G/Div per channel
- Oscilloscope (Sweep, Scope, Strip) and Volt Meter modes
- Hide or show any or all of the 3 channels
- View data from remote locations on network via TCP/IP
- Optional offset setting per channel
- Export time–stamped data to Excel, MatLab etc.

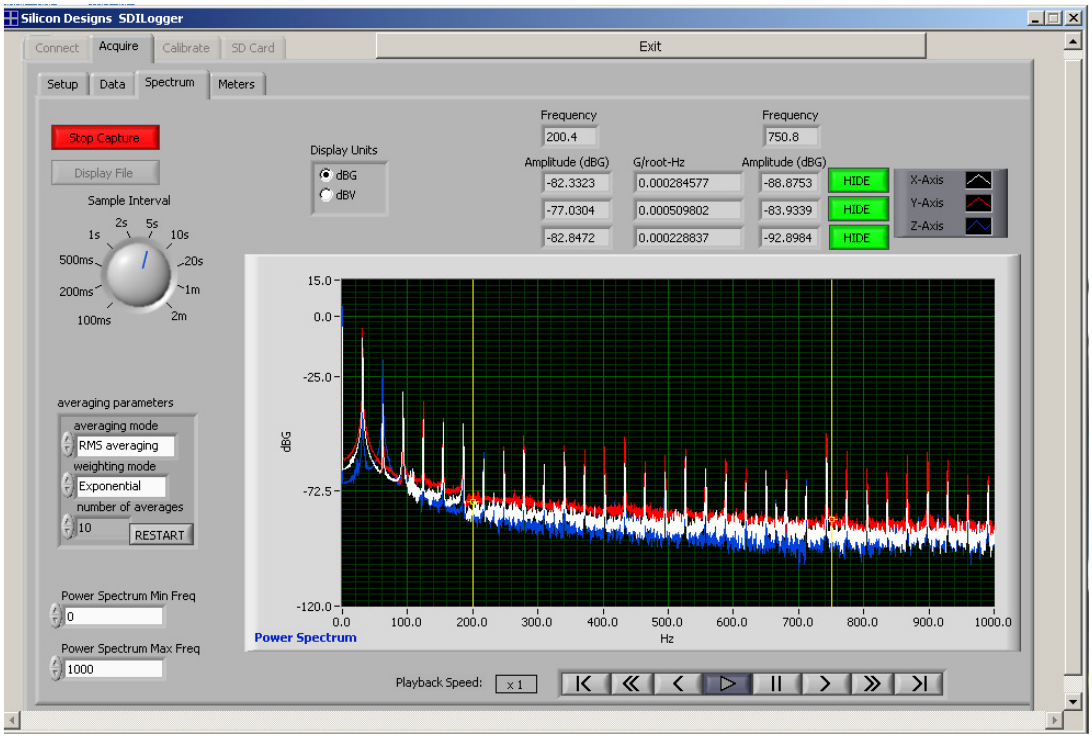
DATA COLLECTION

Data can be collected live or recorded for playback later. Modifying the horizontal scale expands or contracts the period of time displayed on the screen from 100ms up to 2 minutes. Each axis is one channel, and these can be hidden or offset (but will still be recorded) as desired.



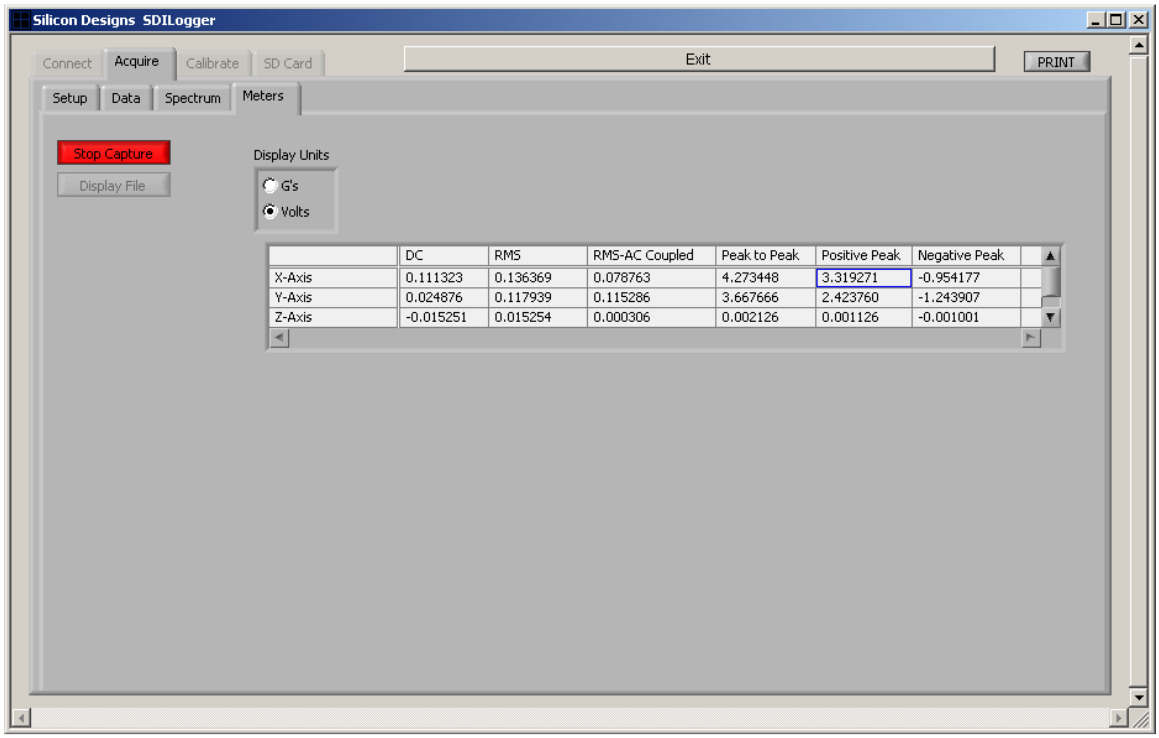
SPECTRUM (FFT)

SPECTRUM displays the FFT of the data. This is a more advanced feature of the G-logger 3340. You can analyze the data to see at which frequencies the maximum vibrations are occurring.



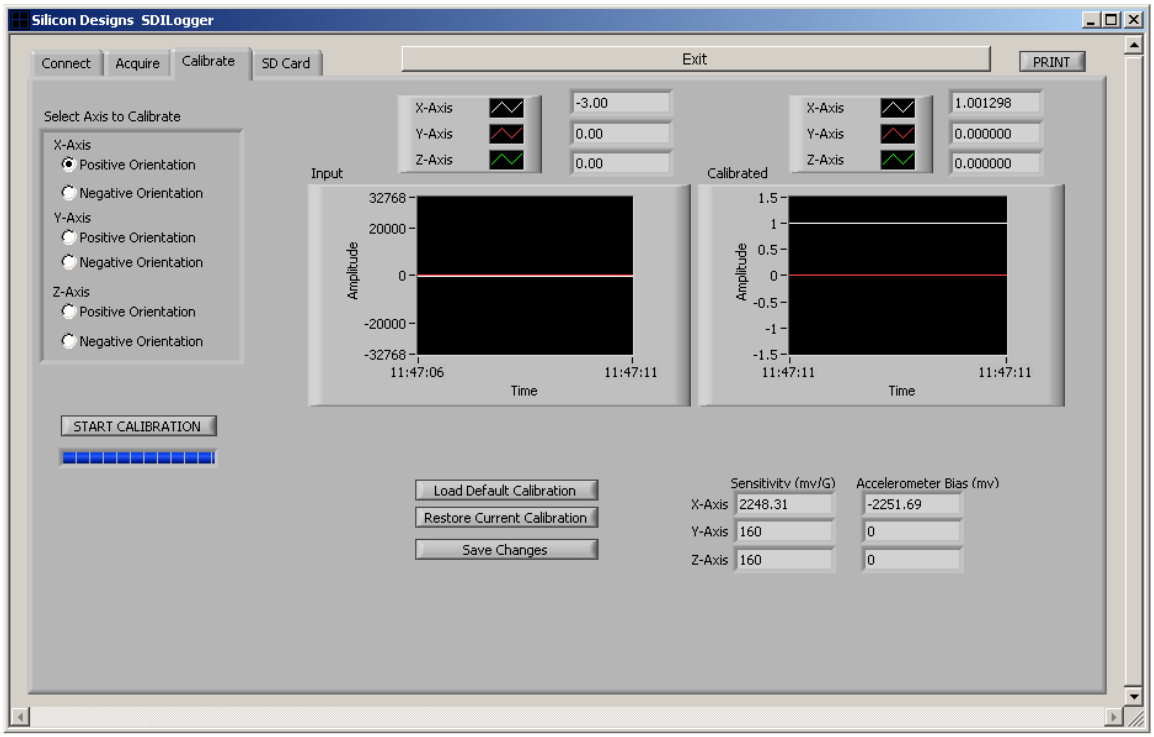
PEAK VALUES

The METERS screen provides DC, RMS, and peak values in either Volts or Gs. These values are calculated over the time interval selected by the horizontal scale selected on the Data tab. The values are updated at that same interval as well.



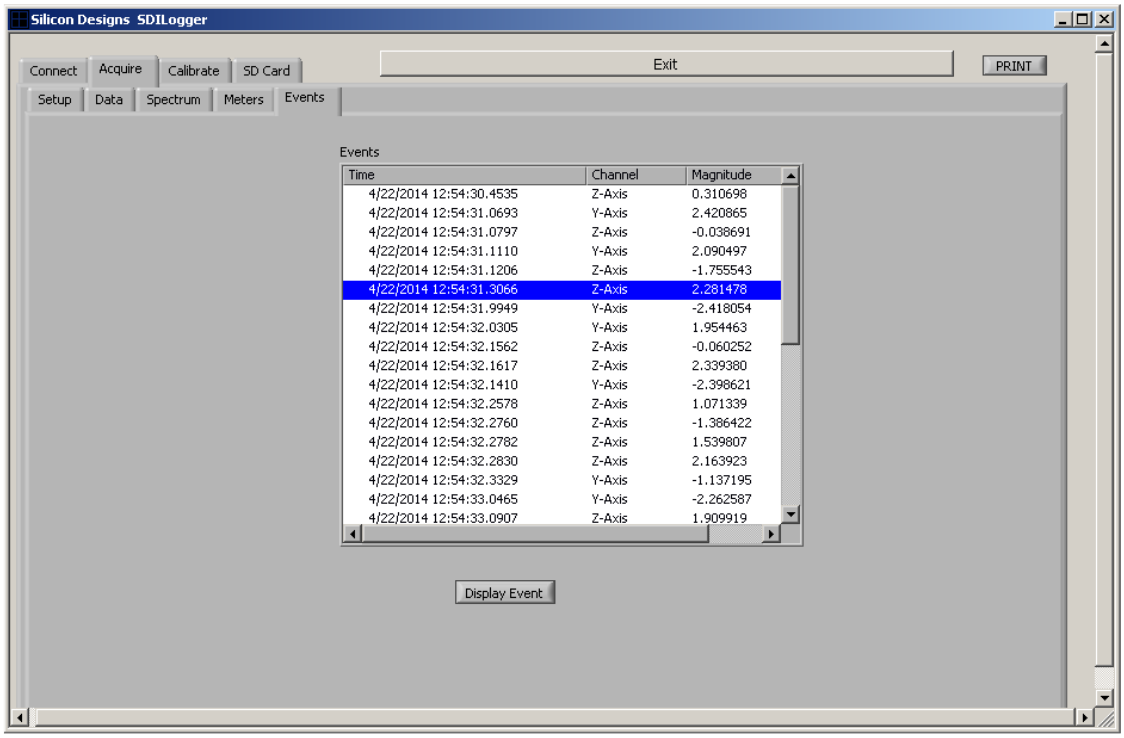
CALIBRATE

The default calibration parameters are supplied automatically, or unit-specific calibration parameters can be manually entered. Manual calibration can be done any time using gravity and performing a simple +/-1G flip.



PEAK EVENT REPORTING

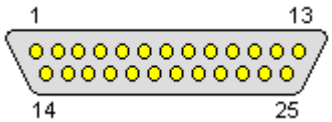
When event detection is enabled, the 3340 will identify and write events whenever data acquisition occurs. The peak events are written to a file on the SD card, which is then automatically specified as the event file upon saving.

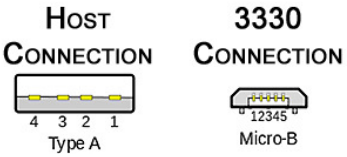


CONNECTOR PIN LAYOUT

TOP ROW PIN NUMBERS												
1	2	3	4	5	6	7	8	9	10	11	12	13
CH 0 0 Volt	CH 0 AON	CH 1 0 Volt	CH 1 AON	CH 2 0 Volt	CH 2 AON	X	X	X	X	X	X	X
Bottom Row Pin Numbers												
14	15	16	17	18	19	20	21	22	23	24	25	
CH 0 AOP	CH 0 8-32 V	CH 1 AOP	CH 1 8-32 V	CH 2 AOP	CH 2 8-32 V	X	X	X	X	X	X	

Included 25 Pin D-Sub Connector for Accelerometer Connection





CABLE WIRING