G-LOGGER® MODEL 3330
USB DATA ACQUISITION SYSTEMS

- Compatible with Silicon Designs accelerometers
- No additional accelerometer power supply needed
- Automatic and manual calibration routine
  - +/-1G Flip or manually enter from calibration certificate
- Adjustable filters and FFT for data analysis in both real time or post collection
- Three input channels support three 1- axis modules or one 3-axis module
- 16 Bit sample rates from 1 to 10,000 samples/second per axis
- Recording feature with playback in multiple speeds
- Available preconfigured if purchased with a new Silicon Designs accelerometer module
- Automatic setup in less than 5 minutes includes bias, scale factor, etc.
- Last configuration stored in memory and available remotely
- Included software features familiar and convenient user interface built on a LabView platform

SPECIFICATIONS

PHYSICAL		ENVIRONMENTAL	
Case Size	5.5" x 4.25" x 1.5"	Operating Temperature	0°C to +55°C (max)
Weight	275 grams / 9.5 oz.	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 8, 7, XP
USB Connection	Micro USB (B)	Host Connection	USB2 Type A
Memory Type	SD Card, Micro SD w/ Adaptor	Power Supply	Via USB Cable
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
- PAUSE , RWD, FWD without interrupting data collection
- 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.

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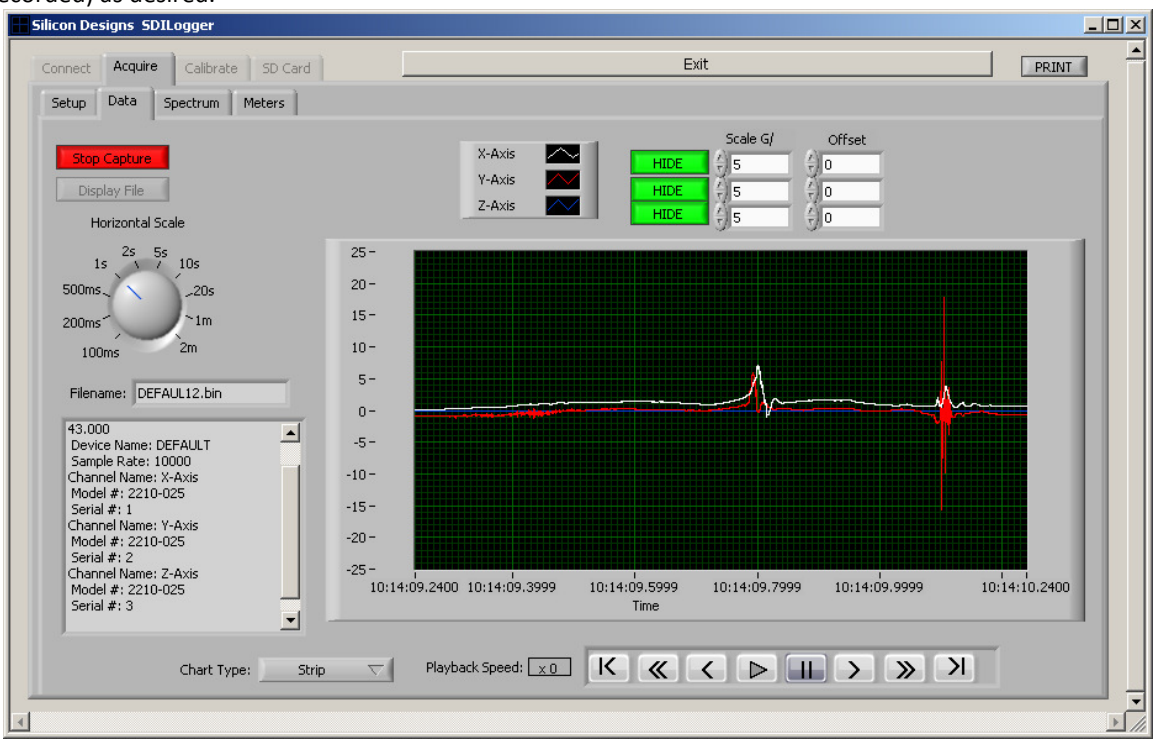
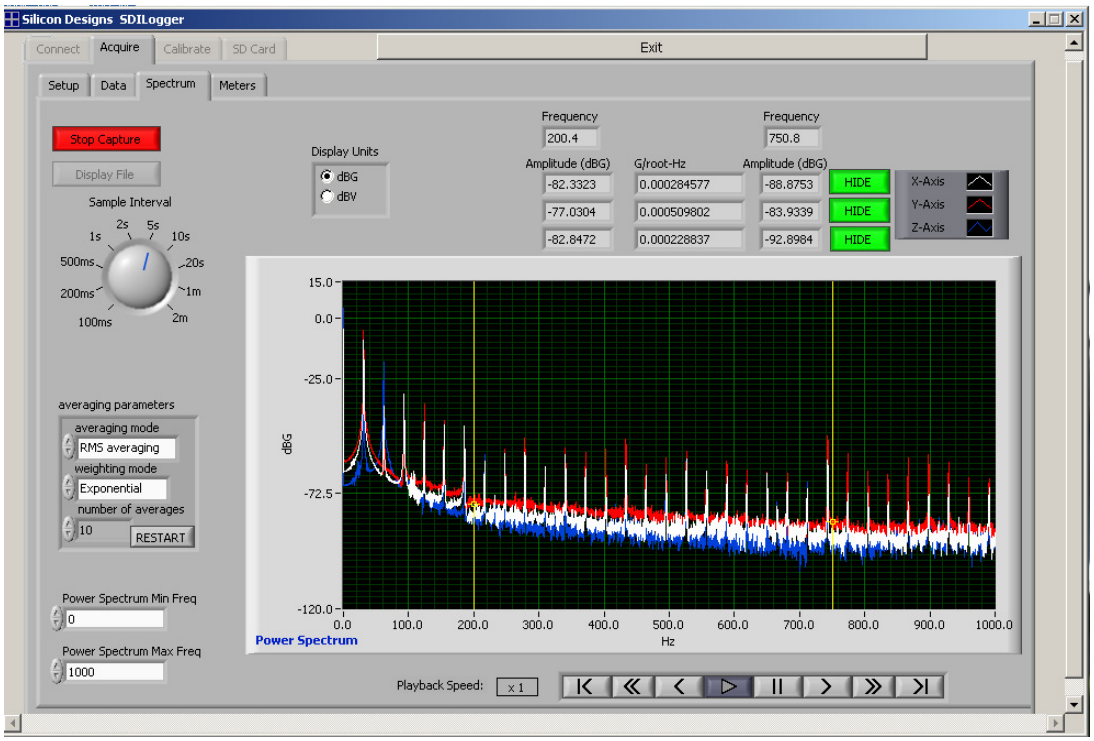
DATA COLLECTION

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 33x0. You can analyze the data to see at which frequencies the maximum vibrations are occurring.



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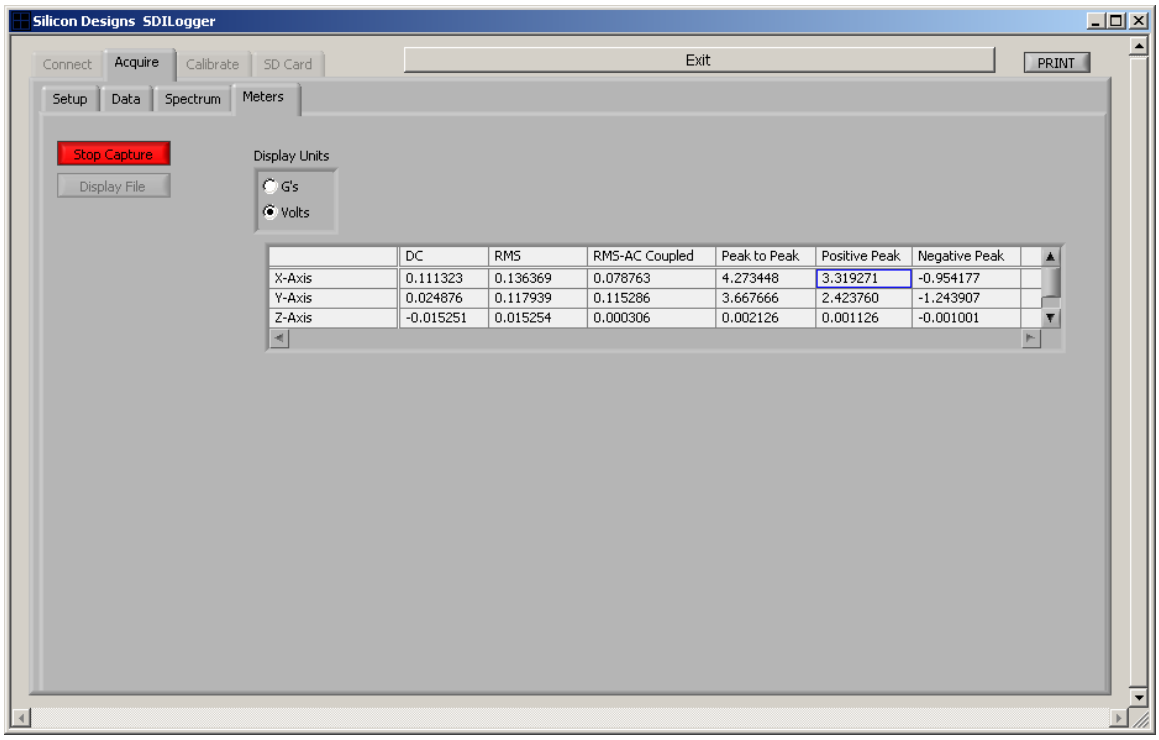
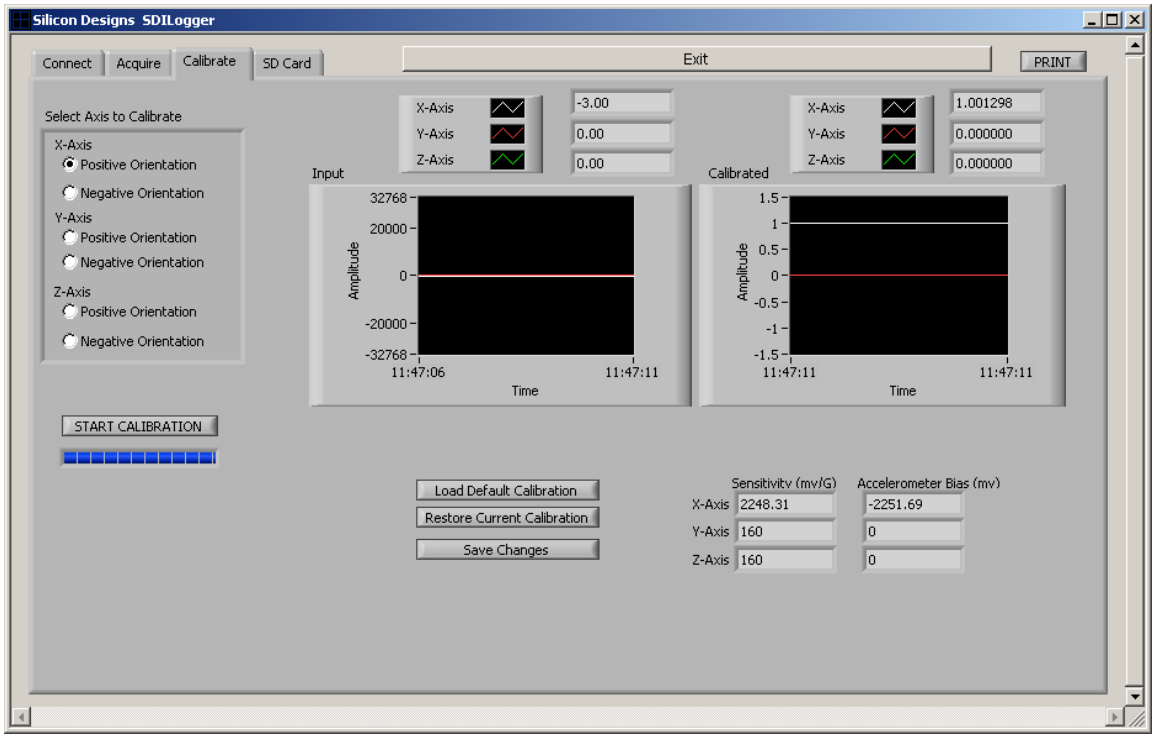
PEAK VALUES

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

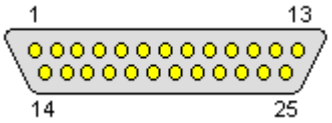
The default calibration parameters are supplied automatically, or unit-specific calibration parameters can be manually entered. Manual calibration can be done any time using gravity and performing a simple +/-1G flip.

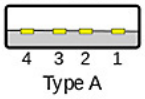


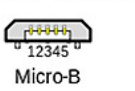
CONNECTOR PIN LAYOUT

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	

25 Pin D-Sub Connector for Accelerometer Connection







SDI STANDARD CABLE COLOR CODE

VS: red wire	Power
GND: black wire	Ground
AOP: (Output) green wire	Positive output
AON: (Output) white wire	Negative output

4-WIRE PIGTAIL

VS: red wire	Power
GND: black wire	Ground
AOPX: (Output) green wire	X-Axis positive output
AONX: (Output) white wire	X-Axis negative output
AOPY: (Output) brown wire	Y-Axis positive output
AONY: (Output) orange wire	Y-Axis negative output
AOPZ: (Output) blue wire	Z-Axis positive output
AONZ: (Output) yellow wire	Z-Axis negative output

8-WIRE PIGTAIL

For full descriptions and detailed instructions, see the G-Logger manual.