- Start and stop data acquisitions with button and/or customizable schedule
- Collect information on peak events with customizable configuration
- View a list of peak events and event data in any display mode
- Add a GPS module and collect GPS data with accelerometer data
- Uses internal battery power or external power packs or AC power
- Compatible with Silicon Designs accelerometers
- Automatic and manual calibration routines via +/-1G flip or from calibration certificate data
- 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 1 3-axis module
- 16 Bit sample rates from 1 to 10,000 samples/second per axis
- Automatic setup in less than 5 minutes upon installation of Silicon Designs accelerometer modules

SPECIFICATIONS

PHYSICAL

Case Size	5.5" x 4.25" x 2.5"
Weight	425 grams / 15 oz. + batteries
Case Material	Die Cast Aluminum, Plastic

ENVIRONMENTAL

Operating Temperature	0°C to +55°C (max)
Storage Temperature	-40°C to +85°C (max)
Humidity	0% - 90% Non-condensing

OPERATIONAL

Connection	25 Pin Female D-Sub
USB Connection	Micro USB (B)
Memory Type	SD Card, Micro SD w/ Adaptor
Max SD Card Size	32 GB

PC REQUIREMENTS

Operating Systems	Windows 10, 8, 7, XP
Host Connection	USB2 Type A
Power Supply	USB, AA batteries, AC power
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.

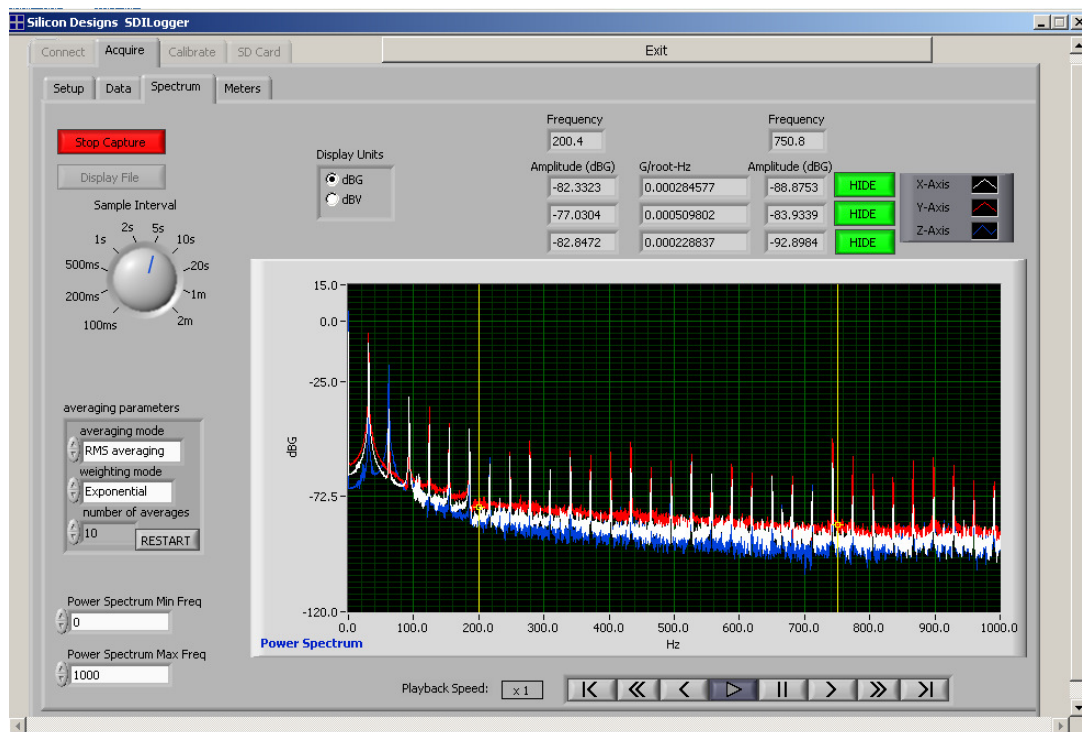SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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.
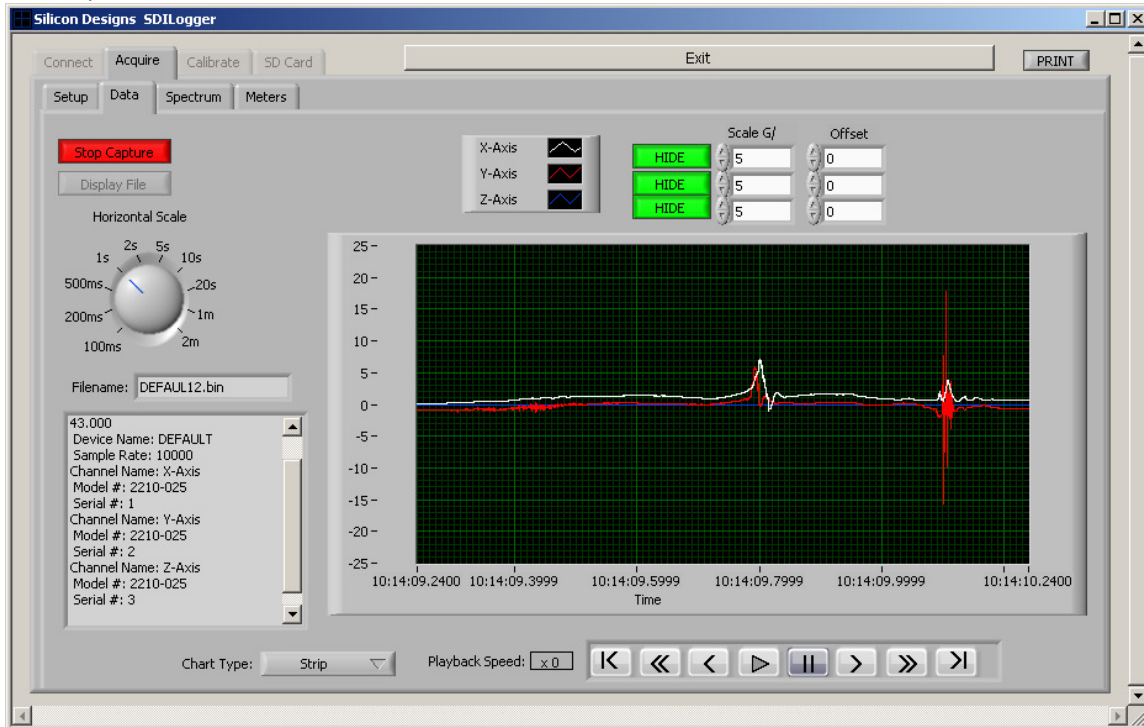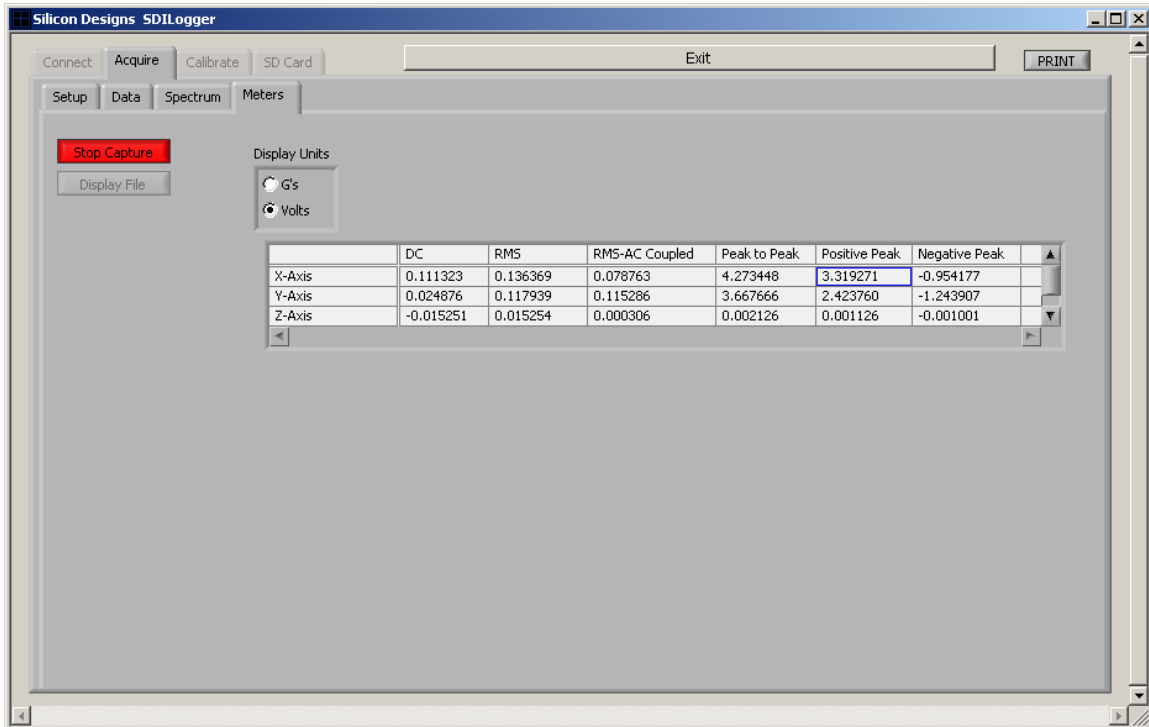

SPECTRUM (FFT)

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.

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.

|	DC	RMS	RMS-AC Coupled	Peak to Peak	Positive Peak	Negative Peak
X-Axis	0.111323	0.136369	0.078763	4.273448	3.319271	-0.954177
Y-Axis	0.024876	0.117939	0.115286	3.667666	2.423760	-1.243907
Z-Axis	-0.015251	0.015254	0.000306	0.002126	0.001126	-0.001001

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.

	Sensitivity (mv/G)	Accelerometer Bias (mv)
X-Axis	2248.31	-2251.69
Y-Axis	160	0
Z-Axis	160	0

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
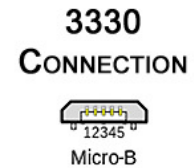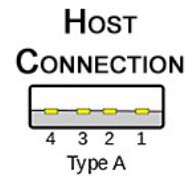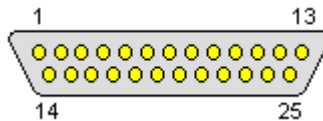
PEAK EVENT REPORTING

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.
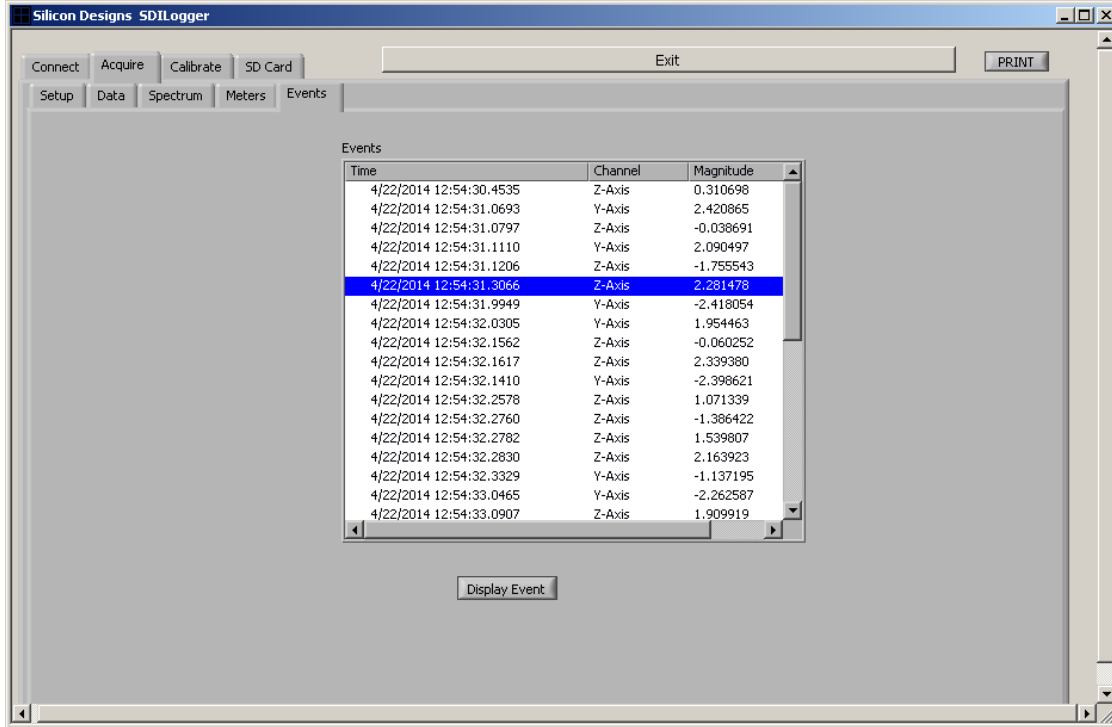
CONNECTOR PIN LAYOUT

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

25 Pin D-Sub Connector for Accelerometer Connection

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Silicon Designs, Inc. • 13905 NE 128th Street, Kirkland WA 98034 • Phone: 425-391-8329 • Fax: 425-391-0446

SDI STANDARD CABLE COLOR CODE

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

		8-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	

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