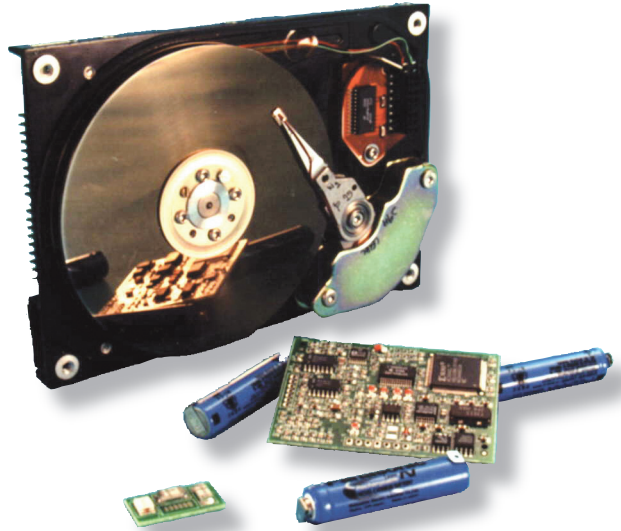


## Shock Logger II – Decoy Recorder

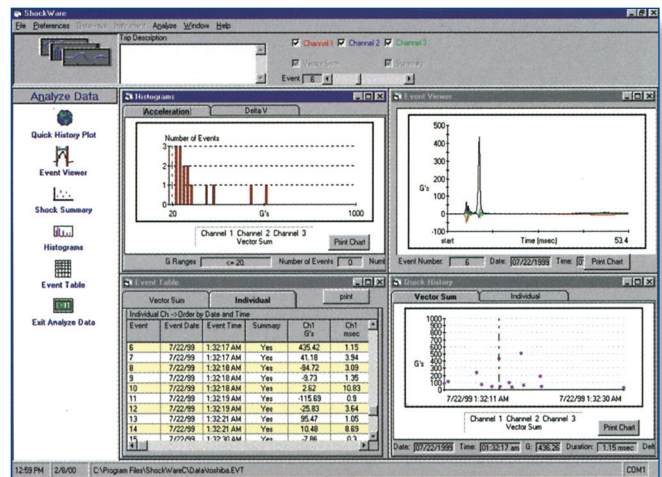
The Shock Logger II is a set of electronics that Lansmont installs in your product creating a powerful damage recording decoy. When installed in a computer disk drive you can profile drive assembly operations, handling shocks, even installation in a computer. Glass food containers are being made thinner and lighter to save on material and shipping costs. With a Shock Logger decoy you can profile product packaging lines and conveyor operations to look for potential glass bruising from impact events.



The Shock Logger includes a tri-axial accelerometer, a high speed 12 bit A/D converter, microprocessor, non-volatile memory and communication port. It will store any shock pulse above a user defined level in its internal memory for later upload and analysis on a host computer.

### Features:

- Self-contained, impact measuring “decoy”
- Tri-axial event recording
- Date and time stamped events
- Records up to 2.5 days
- Samples as fast as 20,000 samples/second/channel
- Miniature size: will fit many 2.5” disk drives
- Easy-to-use furnished Windows setup and analysis software
- User selectable ranges of +/- 50 and +/- 500 G



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# Shock Logger II – Decoy Recorder

## TECHNICAL SPECIFICATIONS

PHYSICAL	
Envelope Size	Custom envelope depending on application. For disk drive applications SHOCK LOGGER II fits in zip drives. 3.5-inch disk drives and most 2.5-inch disk drives. For other decoy applications, contact Lansmont Corporation
Weight	35 grams plus decoy and battery weight
DATA HANDLING	
Resolution	12 bits
Number of Channels	3 fixed tri-axially
Sampling rate	20.035 sample/s in three channel mode 35.446 sample/s in single channel mode
Clock (real time)	Programmable time and date
DATA LOGGING AND MEMORY	
Memory Standard	512 kbytes
Data Acquisition Modes	Threshold Triggered
Recording Modes	Fill/Stop, Maximum Overwrite
Minimum shock pulse duration	0.5 milliseconds
Acquired data each event	Digitized tri-axial waveforms, time and date
Data Storage Device	Non-volatile RAM
Communication speed with PC	RS-232 serial interface at 115.2k baud
SYSTEM CONFIGURATION	
Host Computer Requirements	Windows 95, 98 or NT compatible, standard serial port 2K, XP
Furnished Host Software	Proprietary, Windows 95, 98 or NT based
SENSING	
Acceleration Ranges	$\pm 50$ G, $\pm 500$ G
Acceleration Channel Filters	4KHz, 3-pole Butterworth
ENVIRONMENTAL	
Power Supply	3 Ni-Cad batteries with built-in charging circuit
Battery Life (nominal)	4 hours with "button cells," 10 hours with AAA, 2.5 days with AA and 10+ days with External Battery Pack
STANDARD ANALYSES (GRAPHIC & TABULAR)	
	Quick Time History Tri-axial Acceleration Waveforms Vector Sum Waveforms Histograms Acceleration versus Velocity change Event Table