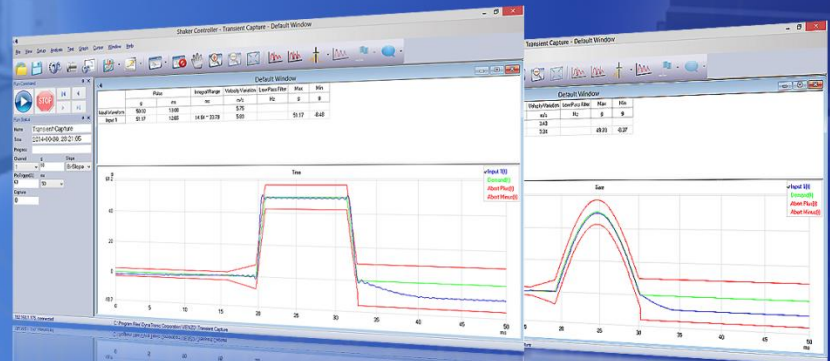


VENZO 640 Shock Test System

—for Capture and Analysis of Transient Signals

- ✓ Drop Signals
- ✓ Collision Signals
- ✓ Shock Pulse



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VENZO 640 Shock Test System

VENZO 640 shock test system is a tailored instrument for drop tester, shock tester and bump testing machine. It allows the test engineer to acquire any transient event such as drop test, crash test or shock pulses. When the external input match the defined trigger conditions- trigger level, slope and position, VENZO 640 will trigger to capture the transient event and display the pulse graphics, and additional SRS analysis gives the instant estimation of the potential damage. A series of pulses can be captured and in the mean while throughput to disc in a continuous data stream for post-analysis. VENZO 640 can also control the shock machines' movements as specific requirements of customers.

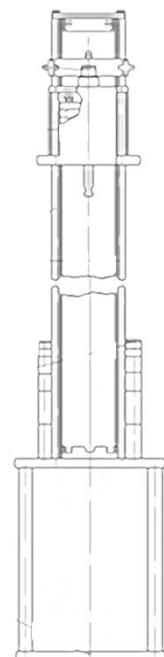


Features

- Capture transient signals with specified trigger level, slop and position
- 100Mbps Ethernet port connection
- Capture Duration: 0.1ms-10,000ms
- Pulse Duration: 0.05ms to 5,000ms
- Maximum sampling rate up to 204.8 kHz
- Acceleration range up to 100,000gn
- Standard: MIL-810 or user defined
- Specified SRS analysis for each pulse as it is captured
- Independent low-pass or high-pass filter for each channel
- Auto generation of test report in Word or PDF format

Hardware

Input	4 channels
Input Interface	BNC Connector
Input Resolution	24-bit ADC
Coupling	AC Gnd, AC Dif, DC Gnd, DC Dif, Charge, IEPE
TEDS	IEEE 1451.4 compliant, automatic-reading
Anti-aliasing Filter	analog and digital anti-aliasing low-pass filters
Input Dynamic Range	135dB
SNR	<-100dB
Input Voltage Ranges	± 10 , ± 1 or ± 0.1 VPEAK
Input Impedance	1M Ω (single-ended) 2M Ω (differential)
Input Protection Voltage	± 36 VPEAK without damage
Input Channel Crosstalk	<-100dB@1kHz
Amplitude Channel Match	0.1 dB
Channel Phase Match	better than ± 1.0 degree, up to 20 kHz
Input Signal Type	Charge, Voltage, High-integrated
Input / Output Channel Crosstalk	<-100dB
Total Harmonic Distortion	<-100dB



Main Chassis

Dimension (mm)	290*210*60
Weight	2.6 kg
Working Temperature	-30~70°C
Humidity	5%~95% RH
Consumption	10W
Power	100~240VAC (50~60Hz)
Enclosure Rating	Ip43
PC Connection	high-speed standard Ethernet interface
Anti-vibration Performance	10-60 Hz @ 0.15 mm peak, 60-150 Hz @ 2gn, conform to IEC-6008-2-6;
Anti-impact Performance	10 gn for 16 ms, conform to IEC-6008-2-27
EMC Standards	EN61326-1:2006, EN61000-3-2:2006 +A1:2009+A2:2009, EN 61000-3-3:2008
Safety	EN 61010-1:2001
Compliance	CE Marking

Software

Trigger

Trigger Channel	Any active channel, specified channel or none
Trigger Slope	Rising, Falling and Bi-slope
Trigger Level	Specified G level
Delay	-100%-100%

Ideal Waveform

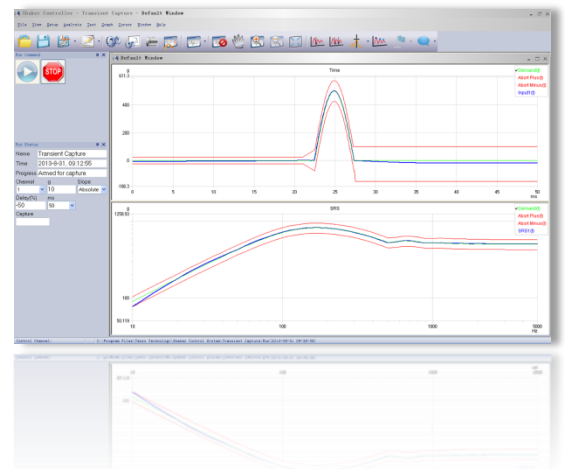
Waveform	Half-sine, Initial/Final peak saw tooth, Triangular, Rectangular, Trapezoid, Haversine
Standard	ISO, MIL-STD-810G, IEC, User defined
Tolerance	According to each standard

SRS Analysis

Analysis Target	Ideal Waveform or set SRS manually
SRS type	Primary, Residual, and Composite
Resolution	1-1/48 octave analysis
Damping Ratio	0.1%-99%
Q factor	0.5-500

Filtering

Low-pass and high-pass filters, specified cutoff frequency and



filter ratio. Filters are independent for each channel.

Shock Response Analysis

Specified arbitrary frequency and damping ratio, generate its impact response signal.

SR Visualizer 2D pulse animation from high to low frequency
 3D pulse animation from high to low frequency
 Replay 3D pulse animation from high to low frequency

Force/Deflection Analysis

Calculate and display Force/Deflection curve, Ideal Energy, Input Energy, Absorbed Energy, Lost Energy and Efficiency.

Rotational Shock Analysis

Set the turning radius, calculate angular acceleration time-domain signal.

FFT Analysis

Calculate FFT signal of each channel.

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