

# LITERATURE UPDATE

These product bulletins, brochures and catalogs are free. To order copies, goto [www.SandVinfo.com](http://www.SandVinfo.com), select the August issue and enter RS numbers of interest.

## Engineered Acoustic Solutions



3M E-A-R provides automotive design engineers with a variety of innovative products and materials to reduce noise, improve sound quality, and add value and performance to virtually any vehicle design or application. 3M products are backed by the latest technology and testing services as well as industry-leading experience. Contact: 866.887.8438

RS #221  
3M E-A-R

## McGill AirSilence CD Catalog



Our complete catalog is available on CD-ROM, with information on all McGill's high-quality acoustical enclosures, panels, silencers, and other noise control products and services along with performance data sheets, case histories, and acoustical engineering reports. Contact: 614.829.1200 or [www.mcgillairsilence.com](http://www.mcgillairsilence.com)

RS #225  
McGill AirSilence LLC

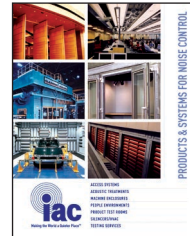
## Picture PU Direct Near-Field Camera



An array of PU miniprobes is a state-of-the-art solution for acoustic near-field measurements, including stationary and non-coherent sources. Broad-band, real-time visualization is possible using a CCD camera for positioning and overlay, also in non-anechoic conditions like a car interior. [www.microflow.com](http://www.microflow.com)

RS #229  
Microflow Technologies

## Noise Control Products and Systems



IAC offers a comprehensive line of sound control products. IAC is unique in guaranteeing product performance; prior to shipment, each product line is pre-tested for performance in our in-house Aero-Acoustic Research Lab. IAC always guarantees in-field performance to the specification. [www.industrialacoustics.com](http://www.industrialacoustics.com)

RS #230  
Industrial Acoustics Company, Inc.

## New Acoustic Measurement Brochure



PCB Piezotronics provides its full offering of acoustic test products, including new Model 378B02 high-temperature measurement microphone system with TEDS, operating to +120° C, designed to overcome test challenges associated with NVH powertrain and vehicle testing, and broaden options for NVH test engineers. Contact: [mktg@pcb.com](mailto:mktg@pcb.com)

RS #222  
PCB Piezotronics

## New Solid-State Standalone Recorder



New SCADAS recorder now available. Stream data directly to compact flash, wireless remote control, built in signal conditioning for microphone/accelerometer/strain gage/digital inputs, Integrated GPS and CAN, 100% compatible with Test.Lab NVH software. Special promotional pricing. [www.lmsintl.com](http://www.lmsintl.com)

RS #226  
LMS North America

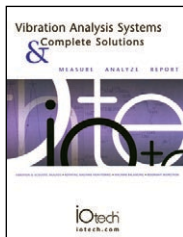
## Quest Introduces the Edge



Quest Technologies proudly introduces The Edge, a cable-free noise dosimeter with exceptional battery life. The thin, lightweight, contoured shoulder mount instrument conforms to the worker's body for comfortable use while maintaining an upward orientation for the microphone. [www.questtechnologies.com](http://www.questtechnologies.com)

RS #231  
Quest Technologies, a 3M Company

## Vibration Analysis Systems



IOtech's Vibration Analysis Systems & Complete Solutions catalog is a 28-page compilation illustrating customer product applications using IOtech's powerful software coupled with its industry-leading measurement and data-logging products. Contact: 888.942.6678 or [www.iotech.com](http://www.iotech.com)

RS #223  
IOtech, Inc.

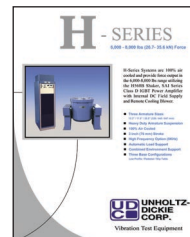
## Noise in Full Color



The new CEL-600 series of DSP-based noise meters includes model CEL-620B model with real-time full octave band measurements over a single 120-dB-wide dynamic range. Results are shown on a quarter VGA color screen for maximum clarity. The unit has other key advantages over other similar mid price meters. Contact: 800.366.2966 or [www.casellausa.com](http://www.casellausa.com)

RS #227  
Casella USA

## 3-Inch-Stroke Vibration Shaker



Unholtz-Dickie has extended the popular H-Series Systems rated at 8,000 lbf (35.6 kN) to 3 inch (76 mm) stroke. This expands UD's 3-inch (76 mm) stroke system offerings, ranging from medium to very high force, 8,000-55,000 lbf (35.6-245 kN). Contact: 203.265.3929 or [www.udco.com](http://www.udco.com)

RS #232  
Unholtz-Dickie Corp.

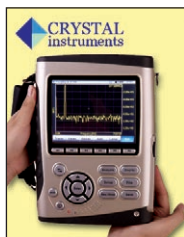
## One-Stop Sound and Vibration Shop



The Modal Shop is your one stop for structural test equipment and hard-to-find accessories, serving your modal analysis and structural testing needs: modal exciters, shaker stands, stingers, test supports/air rides, electric impact hammers, accelerometer calibrators, signal conditioners, and TEDS accessories. [www.modalshop.com](http://www.modalshop.com)

RS #224  
The Modal Shop, Inc., a PCB Group Co.

## Dynamic Signal Analyzer



2/4/8/16 inputs and one signal source. Sample all inputs up to 102.4 kHz. 130-dB dynamic range. Continuous recording at full speed. FFT sizes up to 64 K. FRF, tri-spectra, octave, order tracking. Weight <1.7 kg. Battery life > 6 hours. 5.7" color LCD. Ethernet, USB, SD card and wireless. Contact: 408.986.8880. [www.go-ci.com](http://www.go-ci.com)

RS #228  
Crystal Instruments

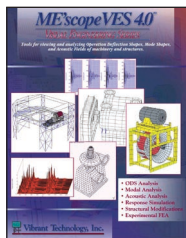
## Noise Control Panels



Eckoustic® Functional Panels (EFPs), independent sound-absorbing panels, can be spot located on walls/ceilings and not disturb existing utilities. Simple installation, durable, low maintenance. These high-performance acoustical wall/panel systems economically improve sound environments.

RS #233  
Eckel Industries, Inc., Acoustic Division

### Modal Analysis with ME'scopeVES 5.0



ME'scopeVES 5.0 contains all of the tools to visualize, analyze and document problems in structures and machinery. A variety of ODS, Modal, and Operating Modal techniques are available, as well as advanced SDM and FEA Model Updating tools. Flexible packaging with upgrade options. [www.vibetech.com](http://www.vibetech.com)

RS #234  
Vibrant Technology, Inc.

### Accelerometers and Conditioning



Catalog covers Brüel & Kjær's full range of Accelerometers, Impact Hammers, Impedance Heads, Non-contact Transducers, Conditioning Amplifiers, Cables and Accessories. Products are sorted individually into tables listing the most important specifications for easy selection of the right product for your particular measurement needs.

RS #239  
Brüel & Kjær

### Whole-Body Vibration Dosimeter



SV100 dosimeter is a complete HVM integrated with a triaxial seat accelerometer. Meets ISO 8041:2005 standards. Instrument provides RMS, peak, peak-peak, VDV, MTVV results with all required weighting filters, driver-presence detection, 1/1 and 1/3 octave analysis, also time domain signal recording. [www.svantek.com](http://www.svantek.com)

RS #244  
Svantek Sp. z.o.o.

### Rotor Dynamics and Bearing Software



Advanced Rotating Machinery Dynamics (ARMD) software has been proven effective by companies worldwide. The most advanced software for bearings, rotor dynamics and torsional vibration. ARMD features user-friendly help, graphics and much more.

Tel: 610.415.0412  
FAX: 610.415.0413  
[www.rbts.com](http://www.rbts.com)

RS #235  
RBTS, Inc.

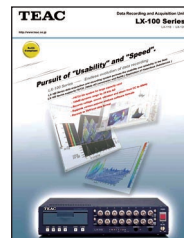
### Acoustic Test Facilities



Eckel's high-performance, quality engineered anechoic and hemi-anechoic chambers, test cells and reverberation rooms provide the precision environment for conducting accurate acoustic measurements. Four styles of anechoic wedges are offered to meet all frequency requirements.

RS #240  
Eckel Industries, Inc., Acoustic Division

### Flash Memory Card Data Recorders



Compact, rugged TEAC LX-100 series features selectable 24/16-bit resolution and uses any capacity flash-memory cards as recording media. DC, IEPE and strain input, analog and digital output, LAN-Ethernet interface, and multi-unit record sync. LX also functions as front-end for direct PC HDD recording. Contact: 978.468.4135

RS #245  
Tritek / TEAC Data Recorders

### Engine Knock Analysis System



KRONOS-V is an automated knock detection/calibrator feedback system for multi-cylinder measurement and recording. It allows real-time spectral analysis of multiple knock events contained in cylinder pressure data or block mounted acoustic transducer data, with automated quantification of signal contents.

RS #236  
Spectral Dynamics, Inc.

### New G.R.A.S. Catalog



Precision measurement microphones covering SPLs from -15 to +194 dB, 0.1 Hz to 200 kHz, lab standards and field measurements. Preamplifiers, outdoor microphones, arrays, ear and mouth simulators, Kemar manikin, calibration equipment, front-end conditioners, etc. [www.gras.us](http://www.gras.us)

RS #241  
G.R.A.S. Sound & Vibration

### New Strain Gage Hardware



New to the LMS SCADAS hardware family is the VB8 strain/IEPE module. This new card expands the uses of the Test.Lab NVH analyzer to include durability measurements and processing. Support for full-, half- and quarter-wave bridges included and selectable via one click in software. [www.lmsintl.com](http://www.lmsintl.com)

RS #246  
LMS North America

### BSWA Microphones



BSWA has more than 20 years of experience in producing measurement microphones. Each year we supply thousands of microphones to OEMs. We have a wide range of models to fit your application needs. Tel: +86.10.5128.5118 [www.bswa-tech.com](http://www.bswa-tech.com)

RS #237  
BSWA Technology Co., Ltd.

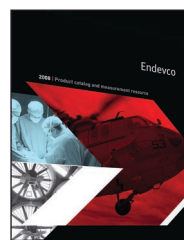
### MIMO Control from Spectral Dynamics



For Multi-Shaker testing, come to the people who invented modern Multi-shaker/Multi-axis Control. Full Matrix update and Control of the desired Translational, Rotational and Torsion Vectors. With real Random, Swept Sine, Transient Waveforms and continuous Replication. Real-Time Square and Rectangular control.

RS #242  
Spectral Dynamics, Inc.

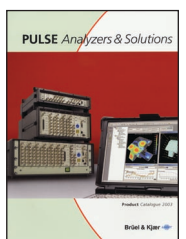
### Endevco 2008 Catalog



A sensing solutions resource: how to select accelerometers for test applications, sensor selection by market, typical applications, complete product technical data (accelerometers, transducers, microphones, cables, electronics and accessories), accelerometer mounting and installation, calibration, and applications engineering. [www.endevco.com](http://www.endevco.com)

RS #247  
Endevco

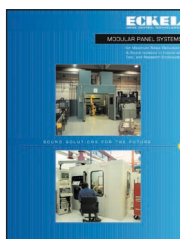
### PULSE Analyzer Catalog



PULSE based solutions are listed by application. From basic vibration to advanced MIMO modal analysis, simple SPL logging to high channel count beam-forming arrays. PULSE can meet your toughest sound & vibration needs. Vast expandability in both hardware and software. [www.bkhome.com](http://www.bkhome.com)

RS #238  
Brüel & Kjær

### Noise Control Enclosures



Sound-attenuating Eckel-acoustic® Modular Panels (EMPs) – pre-engineered, structurally strengthened 4 in. thick STC41 & STC45 acoustical panels – combine outstanding noise control properties with unusual versatility. EMPs are designed for quickly constructing rugged, free-standing enclosures or sound barriers.

RS #243  
Eckel Industries, Inc., Acoustic Division

### Scan and Listen Makes Modes Audible



Close to a vibrating surface, acoustic particle velocity is a direct measure for normal structural velocity. An alternative to accelerometers and scanning laser vibrometers, the Microflow sensor allows noncontact measurements, and is hardly susceptible to background noise. [www.microflow.com](http://www.microflow.com)

RS #248  
Microflow Technologies

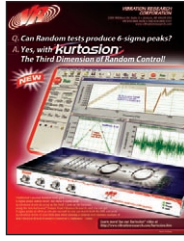
### What's New at Dytran?



Tri-fold brochure features 16 of Dytran's newest product offerings: piezoelectric sensors for vibration, pressure and force measurements, and DC sensors for static acceleration measurements. Also impact hammers, impedance heads, and a broad line of cables and accessories. Contact: 818.700.7818

**RS #249**  
Dytran Instruments, Inc.  
[www.dytran.com](http://www.dytran.com)

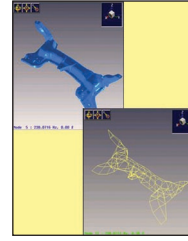
### Kurtosis



A breakthrough in vibration testing brings real-world conditions to the lab. Kurtosis®, Vibration Research's new random software innovation, controls both RMS and Kurtosis of the random waveform, allowing more control over the probability distribution and a closer match between real world and test lab.

**RS #254**  
Vibration Research Corp.  
[www.vibrationresearch.com](http://www.vibrationresearch.com)

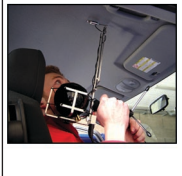
### Automated Modal Analysis with Polymax



The LMS Polymax modal curve-fitting algorithm makes automated modal analysis a reality. Improve the fidelity of your FEA models with the most accurate modal parameter estimations available. Works on any kind of data: heavily damped, lightly damped, noisy, or just normal. Read our white paper.

**RS #259**  
LMS North America  
[www.lmsintl.com](http://www.lmsintl.com)

### On-Site Impedance Measurements



PU probes measure acoustic reflection coefficient of a material as it is installed. This nondestructive method allows broad band measurements under normal and oblique angles of sound wave incidence. High-spatial-resolution measurements can be obtained also on curved materials.

**RS #250**  
Microflown Technologies  
[www.microflown.com](http://www.microflown.com)

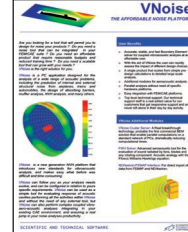
### High-Performance Acoustical Windows



St. Cloud Window specializes in ultra-high-performance acoustical windows with STC ratings up to 60. Our products and expertise allow us to undertake complex, specialized projects. Call 800.383.9311 to request a spec binder or CD-ROM.

**RS #255**  
St. Cloud Window, Inc.  
[www.stcloudwindow.com](http://www.stcloudwindow.com)

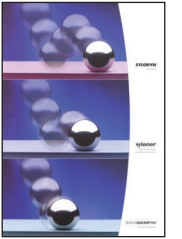
### VNoise Multicore BEM



VNoise, the new generation NVH boundary-element package, introduces direct support for recent multicore CPUs. Improve performance of your vibroacoustic and aeroacoustic analyses by a factor of 2 or 4 using dual- or quad-core CPUs. Reliable, accurate and fast analyses on your desktop PC.

**RS #260**  
STS  
Tel: +39.0332.333871 (Italy)  
[www.sts-soft.com](http://www.sts-soft.com)

### Vibration Isolation Elastomers



Getzner Werkstoffe has developed a wide range of materials for vibration isolation. Sylomer has an impressive track record, and has been used throughout Europe. Sounddown Corporation is now supplying OEM and architectural applications in North America. Contact: 800.359.1036 or

**RS #251**  
Sounddown Corporation  
[www.sounddown.com](http://www.sounddown.com)

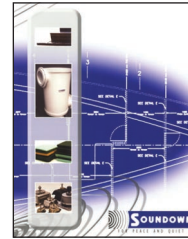
### Innovative Solutions from NI



National Instruments offers high-performance sound and vibration hardware and software for a wide range of applications including automated audio manufacturing test, large-channel acoustic arrays, online machine monitoring, and distributed structural monitoring. Go to [www.ni.com](http://www.ni.com) to learn more. Or call 512.683.0100

**RS #256**  
National Instruments

### Material Solutions for Peace and Quiet



Sounddown has expanded its materials product line to cover growing customer needs. The approach to product design, selection, and manufacturing is based on professional engineering, understanding NVH science and practical experience with materials. Contact: 800.359.1036 or

**RS #261**  
Sounddown Corporation  
[www.sounddown.com](http://www.sounddown.com)

### Leading-Edge Vibration Analysis



Using the vb3000™ as our benchmark, we proceeded to engineer the all-new vb7™ instrument's electronics from the ground up using state-of-the-art, lightweight components. We then sculpted the vb7 instrument into a superbly comfortable tool designed both by and for predictive maintenance professionals.

**RS #252**  
Commtest  
[www.commtest.com](http://www.commtest.com)

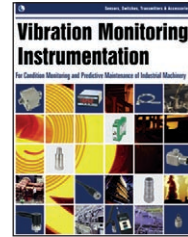
### High-Definition Noise Source Localization



LMS's new HD Acoustic Array pinpoints noise sources quickly. With one array and one measurement find the noise source on your device then use our unique focalization technique on the same data to zoom in for precision location of hot spots. Call for a free on-site demonstration today. [www.lmsintl.com](http://www.lmsintl.com)

**RS #257**  
LMS North America

### Vibration Monitoring Instrumentation



IMI Sensors new product brochure highlights full line of accelerometers, 4-20 mA vibration transmitters, switches, meters, cables, connectors and accessories for machinery condition monitoring and predictive maintenance. Contact: [mktg@pcb.com](mailto:mktg@pcb.com)

**RS #262**  
IMI Sensors, Division of PCB Piezotronics

### RC Assurance™



RC Assurance™ clips act as an impenetrable washer that puts the extra space between the resilient channel and the joist helping eliminate ceiling noise. Space Assurance™ suspends the channel so the gypsum board can be fixed properly. Assures developers that the RC channels are installed properly. [www.KeeneBuilding.com](http://www.KeeneBuilding.com)

**RS #253**  
Keene Building Products

### Constant Natural Frequency Mounts



New, patented CNF-type mounts from AAC automatically adjust stiffness in response to load. Series V10Z24 comes in three sizes, 400-8000 lb load range for non impact, machinery and 5000 lbs for impact. Available for immediate delivery. Contact: 516.328.3662 [www.vibrationmounts.com](http://www.vibrationmounts.com)

**RS #258**  
Advanced Antivibration Components

### Phantom-Powered Measurement/Interface



ACO Pacific's Phantom-Powered family brings measurement microphones and IEPE interface to DAT and other recording devices. ACO's 7052PH Type 1.5 and MK224PH Type 1 systems provide 20 kHz and 12-dBA performance. ICP1248 provides a 4-20 mA IEPE/Phantom interface to power accelerometers and other devices. [www.acopacific.com](http://www.acopacific.com)

**RS #263**  
ACO Pacific, Inc.  
[www.acopacific.com](http://www.acopacific.com)