S&V Samford Newsletter

March 2019 Edition

16th International Conference on Automotive NVH Control Technology

16th International Conference on Automotive NVH Control Technology 2019

Visit our Booth at the **16th International Conference on Automotive NVH Control Technology 2019**, in **Shangri-La Hotel, Changzhou** during **29th -30th May , 2018** . We are proud to introduce the GRAS' latest **New Measurement Microphone** , which present new solutions for **engine** and **Wheelhouse brake noise** **testing**.

Last Year's picture of the Conference

International Conference on Automotive NVH Control Technology Background

Organized by formerly known as **Vibration and Noise Section of SAE-C/EPTC**, SAE-China NVH is directly affiliated with **SAE-C** now. As a non-profit social organization established in 2012 to promote the development of China automotive industry, bring benefits to domestic brand enterprises , cultivate academic leaders and research teams, and enhance Chinese scientific and technological competitiveness.

The International Conference on Automotive NVH Control Technology has invited plenty of renowned foreign professors and experts to communicate with first-line experts from our domestic OEMs every year. Most participants are NVH professional engineers and technicial leaders from all around the world.

More Details

About Us

S&V Samford Ltd.
www.svsamford.com

We are devoted to provide quality and innovative solutions for Customers with interest in Sound and Vibration, Condition monitoring and Air Quality monitoring. With a team of passionate professionals, we provide dedicated support and continue education to our customers.

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Monthly Feature Products

-**NEW! G.R.A.S**
New Paradigm for Engine Noise Testing – 147AX

-IRISS
IR Window - The VPT Series

- NEW! Listen Inc.
SoundCheck Version 17

A New Paradigm for Engine Noise Testing–

147AX CCP rugged Pressure Microphone

Rugged surface microphone for cold and hot engine testing

Growing customer expectations increasingly push for noise-reduced cars. Therefore, OEMs continuously struggle to identify and reduce noise sources.
Also, the increasing pressure for fast prototyping and shorter "time-to-market" calls for improved and more efficient noise, vibration and harshness (NVH) test methods. Generating reliable data is critical in this process, and it requires using the best measurement microphones as well as constantly improving the measurement procedures.**This is why GRAS has developed a new surface microphone optimized for cold and hot engine measurements.**

With its laboratory precision, extreme ruggedness to match the hot and harsh conditions in an engine bay as well as a novel form factor and mounting system, the 147AX microphone is destined to become the preferred solution for testing facilities around the world.

Explore the benefits – the details that make all the difference.

- Water, Oil and Dust- resistant Grid
- Temperature Resistance
- Waterproof Design
- Robust Cabling
- Protected Venting
- Shock-absorbing
- Power-on Indicator
- Small Form Factor
- Online Calibration Data

The grid with its built-in filter is easily replaceable whenever the filter is clogged.

Mounting disc The disc can be attached to the test object with glue, double-sided adhesive tape or a screw.

MagMount™ mounting system for 147AX

The backside of the 147AX microphone housing has a strong built-in magnet which makes it possible to place the microphone on any flat metal surface without compromising measurements. It is also possible to fix it easily anywhere in the engine bay by use of a mounting disc allowing for fast, precise and repeatable mounting of the microphone – even in confined spaces. Repeated mounting and demounting will not affect mounting precision or the repeatability of measurements. The same mounting points can be used for cold and hot engine testing, including testing on proving grounds or public roads.

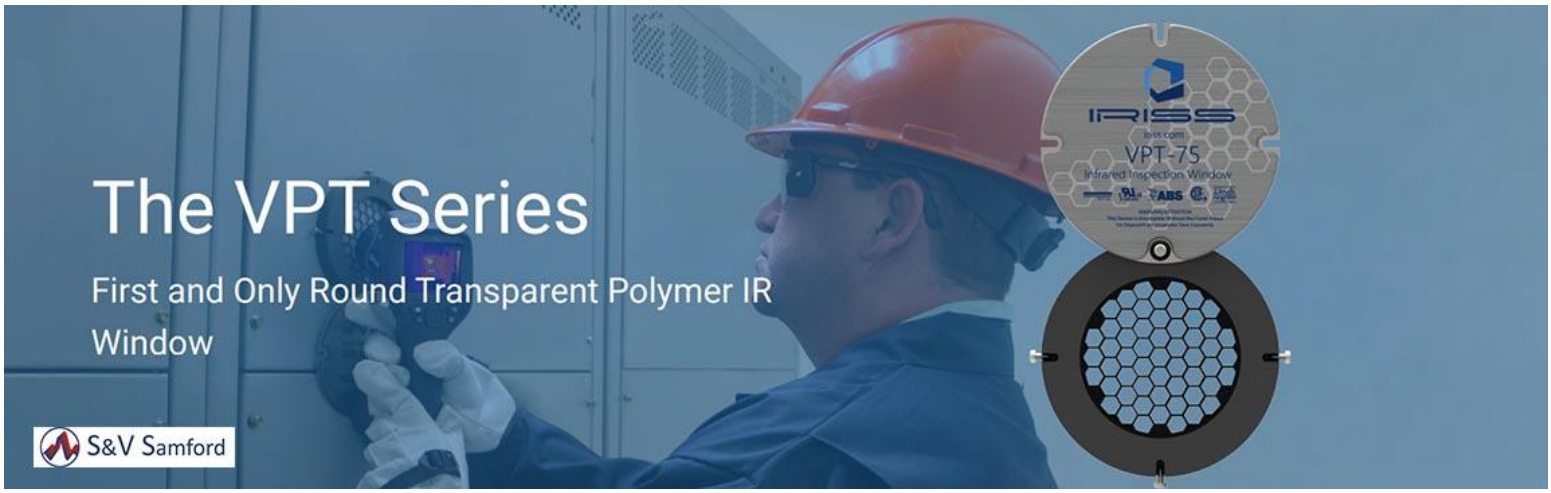
More Details

About G.R.A.S

http://www.gras.dk/

Establishment in 1994. G.R.A.S. have been 100% dedicated to developing and manufacturing high quality measurement microphones and related acoustic equipment.

G.R.A.S founded by the Danish acoustics pioneer Gunnar Rasmussen who for more than 60 years has contributed to the world of sound and vibration with his unique ideas and designs.



First and Only Round Transparent Polymer IR Window

- The VPT Series

An evolutionary step in infrared (IR) windows, the VPT Series utilizes our exclusive Poly-View System™ technology to allow the use of any thermography camera to monitor energized electrical equipment. The world's only clear polymer IR window optic enables visual inspections, traditional IR inspections utilizing cameras across the entire IR spectrum and allows for UV inspections to be performed with a corona camera. The VPT Series IR windows are industrial grade with a patented reinforced grill that exceeds high voltage switchgear viewing pane standards.

Poly-View™ Optics System

The VPT Series utilizes our exclusive Poly-View™ technology enabling visual inspections as well as traditional IR inspections across the entire Infrared spectrum. Ultraviolet (UV) inspection can also be performed via the Poly-View™ system.

Fixed and Stable Transmission

Polymer based infrared windows are unaffected by the environmental and mechanical stresses that degrade the transmission of crystal based IR windows which are fragile and hygroscopic (even when coated). The polymer IR window systems will maintain fixed and stable transmission (FAST) for the life of the installation ensuring that the temperature data collected through the IR window is accurate and reliable for the whole life of the installation.

Feature

- Arc Containment Tested
- Environmental Design
- Unconditional Lifetime Warranty
- Durable and Rugged
- Anti-Fogging Optic
- Made in USA

More Details

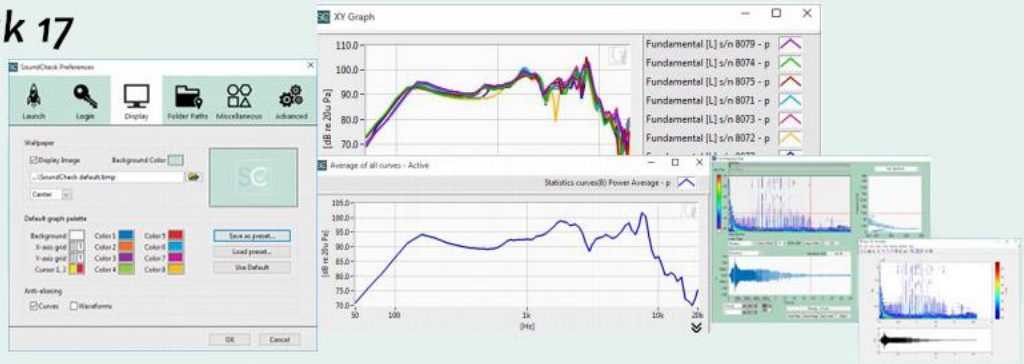
About IRISS

https://www.iriss.com/

IRISS provide customers unsurpassed quality at every touch point. IRISS focus on what they do the best by continuously improving infrared (IR) window, online monitoring devices and Ultrasound test equipment technology. IRISS build reliable products exceeding customer expectations while remaining a science-based R&D company and protecting IRISS products with industry leading warranties.

IRISS is proud to offer clients the best infrared windows on the market today. IRISS IR windows are an excellent way to comply with safety and inspection standards. IRISS IR windows can help companies protect critical assets while providing safe, efficient access to switchgear and other power distribution applications. IRISS VP series infrared windows offer the end user, the ability to eliminate the risks associated with IR electrical inspection by providing companies with a non-invasive closed panel inspection methodology.

NEW Release! New Features!
SoundCheck 17



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Listen

New Release : SoundCheck 17

The new Windows / Mac release offers many features to simplify multi-channel and voice controlled testing, such as a new level and cross-correlation trigger, average curve/waveform post-processing functionality, the ability to easily read and work with multichannel wavefiles, multiple DC Connect control, and enhanced database options (useful when processing data from a large number of channels) .

On the usability side, SoundCheck 17 offers increased flexibility in color pallets, save to MATLAB option, and the ability to recall CSV formatted text files.

New Features:

- **Improved Display Color Palettes**
  Offer ultimate flexibility in defininf colors for backgrounds, grids, cursors and graph line. New default color palettes are included, and user-defined palettes can be saved as pre-set files which will be applied to any new display created. Multiple palettes can be.

- **Able to save additional processing to MATLAB**
  All data including memory list curves and Soundmap data can now be saved to MATLAB for additional processing. Data is saved as a standard MAT file and can be manually or automatically saved in this format.

- **Level & Cross- Correlation Trigger**
  (requires optional module 2006 – Time Selective Response) A new cross-correlation 'smart trigger' offers improved performance for open loop measurements. By using a chirp-based conditioning tone and searching for the exact log sweep frequency, it is more robust and less susceptible to false triggers than simpler level and frequency triggers.

- **Enhanced Database (optional module)**
- **Read Multichannel WAV Files**

- **Control Multiple DC Connects**
  Also for testing multi-channel devices, multiple DC Connects can now be controlled and used for data acquisition within SoundCheck.

- **Allows obtain the Average Curve/Waveform of a selected data**
- **Supports New APTX HD Code**
- **64 bit Demo / Data Viewer**
- **Recall from CSV**
  CSV files can be recalled in addition to TXT files. A separate IMP file for the CSV format can be created allowing for automatic recall of CSV files. This makes its easier to recall pre-formatted text files.

About Listen Inc.

https://www.listeninc.com/

Listen is a world leader in audio and electroacoustic test and measurement.

Founded in 1995, when its flagship product, SoundCheck® was launched, the company has pioneered electroacoustic measurement techniques for 20 years and sets the standard in the marketplace with powerful and innovative test methods and algorithms, fast and flexible testing, and excellent service and customer support.

Listen invests heavily in R&D, regularly presenting papers on new measurement techniques at conferences and refining its algorithms to remain at the cutting edge of measurement technology

See You ☺