GBA-IAS 2019
THE 1ST GREATER BAY AREA INTERNATIONAL ACOUSTICS SYMPOSIUM
THEME: PERCEPTION AND AUDIO
DATE: 16-18 DECEMBER 2019
HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY
SHENZHEN RESEARCH INSTITUTE

S&V Samford December Electroacoustic Activity
- The 1ST GREATER BAY AREA INTERNATIONAL ACOUSTICS SYMPOSIUM (GBA-IAS 2019)

GBA-IAS 2019 take place at Shenzhen during 16th -18th Dec, 2019.
Theme: Perception and Audio
Organizer: The Hong Kong University of Science and Technology
South China University of Technology
Venue: Hong Kong University of Science & Technology Shenzhen Research Institute
Registration Fee: Standard USD 400, Full-time Students USD 100

About Us
S&V Samford Ltd.
www.svsamford.com

We are devoted to provide innovative and quality solutions for Customers with interest in Sound and Vibration, Condition monitoring, Electro-Acoustics: R&D/Production line QC/ QA testing, and Mechanical measurements - Force Torque, RPM, etc. With a team of passionate professionals, we provide dedicated support and continue education to our customers.

Contact:
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Tel : (852) 2833 9987
Fax : (852) 2833 9913

Monthly Feature Products
- GRAS
  Improved Ear Simulators for Headphone Testing
- IRISS
  First and Only Round Transparent Polymer IR Window - The VPT Series

S&V Samford Electroacoustic Activity
- 7th International Symposium on ElectroAcoustic Technologies (ISEAT 2019)

ISEAT 2019 take place at Shenzhen on 9th -10th Nov, 2019.
S&V Samford participated with Listen Inc. and GRAS.

Customer Visits
If you need our visit, please contact us at svsales@svsamford.com.
GRAS
Improved Ear Simulators for Headphone Testing

Improved Ear Simulators for Headphones Testing
Evolution of the IEC 60318-4 Ear Simulator

For more than three decades, the IEC 60318-4 ear simulator has been the recognized industry standard for testing audio transducers with a realistic simulation of the acoustical load presented by the human ear. However, its undamped resonance at 13.5kHz makes it difficult to use for high-frequency testing. Therefore, GRAS has introduced two improved variants of the IEC 60318-4 ear simulator. They retain a firm footing in the standard but improve the ability to measure at high frequencies.

The High-Frequency Ear Simulator (GRAS RA0401/02)
The RA0401/02 has a damping system that attenuates the half-wave resonance at 13.5 kHz and thus extends the useful frequency range to 20 kHz. It uses the same ½” microphone as the original version and fully complies with the standard. This is why we recommend it as the first choice when you are looking for a “standard” 60318-4 ear simulator - but without its shortcomings at high frequencies. We think of it as “the new normal”.

NEW! The Hi-Res Ear Simulator (GRAS RA0403/04)
The RA0403/04 also has a damping system that attenuates the length-related resonances above 10 kHz, but the use of a ¼” microphone extends the useful frequency range to 50 kHz and beyond. The 60318-4 standard calls for a ½” microphone - this is the only reason why the Hi-Res Ear Simulator is not standard-compliant, but “only” standard-compatible, as it fully complies with the standard in all other respects.

<table>
<thead>
<tr>
<th></th>
<th>RA0045/-S1</th>
<th>RA0401/02</th>
<th>RA0403/04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microphone</td>
<td>1/2”</td>
<td>1/2”</td>
<td>1/2”</td>
</tr>
<tr>
<td>Frequency (Hz)</td>
<td>100-10k</td>
<td>100-20k</td>
<td>100-50k</td>
</tr>
<tr>
<td>Sensitivity (mV/Pa)</td>
<td>12.5</td>
<td>12.5</td>
<td>1.6</td>
</tr>
<tr>
<td>Volume (mm³)</td>
<td>1260</td>
<td>1260</td>
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<tr>
<td>Dynamic range (dB)*</td>
<td></td>
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<tr>
<td>Ext. polarized</td>
<td>25-164</td>
<td>25-164</td>
<td>25-169</td>
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<tr>
<td>Prepolarized</td>
<td>25-153</td>
<td>25-153</td>
<td>44-166</td>
</tr>
<tr>
<td>Resonance freq. (Hz)</td>
<td>13.5k</td>
<td>13.5k</td>
<td>13.5k</td>
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<tr>
<td>IEC 60318-4 (711)</td>
<td>Yes</td>
<td>Yes</td>
<td>Compatible</td>
</tr>
</tbody>
</table>

More Details
The VPT Series
First and Only Round Transparent Polymer IR Window

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.