VisiSonics®

Portable Acoustic Camera

Localize, Record & Analyze Anywhere!

The ultimate in portability, VisiSonics' Portable Acoustic Camera offers a truly untethered microphone array with NVH analysis and visualization built in.

This easy-to-use, affordable camera provides real-time visualization of noise sources and reflections and includes robust post-measurement analysis tools. The PAC rapidly generates actionable information, allowing for faster and more accurate identification and resolution of any issues on location.

The PAC provides the convenience of a portable solution with the analytics of a workstation solution.

Markets

- Automotive
- Manufacturing
- Industrial

Features & Benefits

FAST AND EASY IDENTIFICATION OF SOUND SOURCES

- Real-time Visualization and Analysis of Noise Sources and Reflections – Allows user to intuitively understand mitigation strategies and see them work
- Fully Portable and Battery Powered – Easy set-up and an untethered experience
- Streamlined Start-up Procedure – The fastest time to measurement in the industry
- On-the-fly Imaging of ⅓ Octave Bands and Arbitrary Frequency Ranges – Quickly determine problematic frequency bands

ADVANCED DATA CAPTURE AND ANALYSIS

- Slow Motion Video – Captures acoustic propagation data at 4000 fps which allows you to find reflections quickly and accurately and captures how sound is propagating
- Full, Raw Data Capture – Enables post processing analysis – never miss a thing
- Wide Frequency Range – Allows tester to identify a large range of frequency sounds with lowest frequency span in class, to 400 Hz
- Order Tracking – Allows analysis of sound in the harmonic space of rotating assemblies
- External Clock Synchronization and Triggering Capabilities - Allows for easy integration with secondary sensor and measurement systems

### USER-FRIENDLY AND SIMPLE SOLUTION

- Intuitive Touch Interface – Easy control over data collection and analysis
- Efficient Reporting Tools – Batch processing enables repeat multiple report generation automatically and efficiently without manual intervention, saving previous time
- Optimized Session Management – User interface makes managing and comparing data from multiple sessions easy. Quickly build workflows for repetitive analysis tasks.

Contact us to learn more!

Applications

AUTOMOTIVE

VisiSonics technology allows users to locate the source of sound in minutes, helping automotive engineers identify and mitigate problems more efficiently, saving time and money.
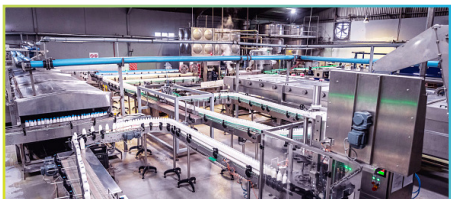
MANUFACTURING

The portability of the PAC is ideal for performing NVH measurements and acoustic detection on shop floors and inside a factory quickly and easily.
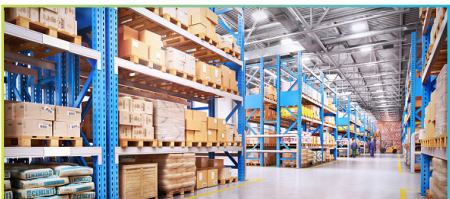
INDUSTRIAL

In any industrial environment, the PAC enables quick acoustic leak detection. Quickly identify and resolve acoustic leaks.

SPECIFICATIONS

Dimensions	15-inch diameter array
Ports	2 x USB type A 3.0 1 x USB 3.0 type C Optional: BNC trigger, BNC sync line out, BNC tachometer capture
Camera Resolution	1920 x 1024
Frequency Range	400 Hz to 12 kHz Lower frequencies available via post-processing
Display	12.3 inch Resolution: 2736 x 1824 (267 PPI) Touch: 10-point multi-touch
Recorded Data Playback	30 fps to 4000 fps
Microphones	64 calibrated and matched microphones 24-bit depth 24 kHz sample rate Flat response: 50-12 kHz
Memory	8GB LPDDR4x RAM
Storage	256 GB SSD
Processor	Dual Core 11th Gen Intel Core I5
Operating system	Windows 10 pro

PRODUCT CONFIGURATIONS

FEATURE	PAC	PAC PRO
Integrated Portable Solution	●	●
Real-time Frequency Band Selection	●	●
Real-time Imaging	●	●
Record Videos	●	●
Export Snapshots for Reporting	●	●
Post Processing Analysis		●
Order Tracking		●
4000 FBS Slow-motion Imaging		●
400 Hz Lower Frequency	●	●
External Clock Sync		●
External Triggering		●
Batch Processing & Scripting for Workflows		●

About VisiSonics

VisiSonics is a 3D spatial audio technology company with a complete suite of solutions that enhances end-users' performance and experience. Millions worldwide from gamers to fighter pilots rely on VisiSonics.
Our offer includes 3D audio rendering, capture and analysis, and personalization software as well as acoustic visualization and measurement solutions.