VisiSonics' FAQs

WHERE CAN I HEAR VISISONICS' 3D SPATIAL AUDIO SOLUTIONS?
Visit VisiSonics' suite at The Venetian during the Consumer Electronics Show (CES) 2022, Jan. 5-8 in Las Vegas. Contact VisiSonics to schedule a demonstration.

What is VisiSonics?

VisiSonics is a 3D spatial audio technology company with a broad range of licensable software and hardware solutions that enhance end-users' performance and experience. Developed by computer scientists at the University of Maryland, the company operates in two areas of focus: *RealSpace® 3D Spatial Audio* and *Acoustic Visualization and Measurement.*

What is RealSpace 3D Spatial Audio?

RealSpace 3D Spatial Audio, the underlying technology for all of VisiSonics' solutions, provides the most accurate digital simulation for superior, immersive real-life acoustics. It accomplishes this by utilizing a combination of physics-based modeling and simultaneous ambisonics and object-based rendering, as well as personalized head-related transfer functions (HRTFs) and audiogram measurements that further optimize the experience for each end user.

How is RealSpace 3D Spatial Audio different from spatial audio offered by other companies?

Compared to the competition, our technology provides:

1. More accurate spatial location and distance
2. Smoother sound in motion
3. Larger sound field
4. Clearer distinction of sounds from multiple, simultaneous sources

How is RealSpace 3D Spatial Audio integrated?

Consumer electronics (CE) manufacturers can integrate our algorithms into a DSP chip that gets embedded into headphones, gaming consoles, PCs or mobile devices, or offer our software-only versions to their consumers who want to use their own equipment.

Content creators can use our software to embed 3D audio directly into a movie, game or piece of music. For gaming, we build plug-ins developers can use on their own video game engines, such as Unreal, Wwise and Unity, to exploit three-dimensional sound and make the game experience more compelling.

Virtual meetings and streaming music platforms can improve intelligibility and reduce listener fatigue using our software APIs.

What is Acoustic Visualization and Measurement?

Our Acoustic Measurement and Visualization systems provide solutions for acoustic diagnostics including Noise, Vibration and Harshness (NVH) and industrial noise detection. VisiSonics' FINDr software allows users to more easily record, visualize and analyze noise sources and reflections. Our industry-leading acoustic diagnostics solutions are used in the automotive industry, academia and R&D, aerospace as well as venue architecture.

Where can VisiSonics' technologies be found?

Companies such as Tesla, SpaceX, Oculus, Ford and BMW have chosen VisiSonics over our competitors to meet their 3D spatial audio needs. Since 2017, our focus has been on making our 3D spatial audio technology accessible and easy for content creators and CE brands to integrate into their products. You can already find VisiSonics RealSpace 3D spatial audio technology in millions of products: personal computers, headphones and mobile phones. We also partner with CEVA, a leading licensor of wireless connectivity and smart-sending technologies to device manufacturers, which enables the company to integrate our technology as part of its offerings; and Andrea Systems, which sells into the military and aviation space.