

Press Release



New audio innovation at CES

Yanfeng Releases Sound Flow Cabin Solution CYMATICX

LAS VEGAS – January 8, 2024 - At this year's CES, Yanfeng unveiled its CYMATICX sound flow cabin, expanding from physical product offerings to immersive audio experiences for vehicle interior spaces. Based on the new self-developed OURANOS Sound Domain Controller platform, CYMATICX integrates a variety of innovative acoustic technologies such as HOLOSOUND immersive audio, somatosensory augmented sound, SONIX acoustic follower algorithms, and special flexible thin film transducers.

Yanfeng has made the strategic decision to integrate TactoTek's Injection Molded Structural Electronics (IMSE) portfolio as a technological layer in its worldwide Smart Cabin business. The intention is to enhance the overall user experience by offering advanced lighting features and introducing new functional elements like HMI, haptic feedback, and display integration.

Over the past few years, there has been a boom in smart cabin technology, especially in cabin audio. Since 2019, Yanfeng has been exploring the field of cabin audio and successfully incubated the cabin audio product line from scratch.

"Cabin audio is a core product for Yanfeng's smart cabin strategy," said Ni Jiawen, Chief Technology Officer of Yanfeng and General Manager of Yanfeng's Tech Center. "We have been committed to creating a breakthrough cabin audio experience for many years. This time with CYMATICX, we have integrated the latest innovations together with our partners, opening up a new perspective on sound design and cabin audio management, and realizing the true reproduction of sound through a series of audio technologies and algorithms."

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The development of CYMATICX takes into account all aspects of sound generation, transmission, reception and perception, integrating acoustics, physics, psychology and other disciplines. CYMATICX features the groundbreaking SONIX dynamic sound algorithm, which adjusts the sound output in real time according to the position and dynamics of the sound object. By generating clearer and more accurate object audio and reconstructing the sound field energy, it provides passengers with a more realistic, immersive, and differentiable multi-point experience. It can also quickly determine the direction of warning sources while driving and supporting safe driving.

CYMATICX incorporates HOLOSOUND, one of only two immersive audio technologies that meets Hollywood standards, integrating a three-dimensional layout, point source, and spatial continuity of multi-channel immersive audio reproduction, it provides users with a comprehensive and authentic 3D audio experience. It is also equipped with sensory enhancement technology, which is an innovation of sound transmission that allows users to perceive sound not only through their ears but also through their bodies by interacting with other interior surfaces and seats, therefore getting a more immersive cabin experience.

The development of CYMATICX has received strong technical support from partners and industry leading audio companies ADI and OpenAudio, with whom Yanfeng announced strategic partnerships with recently.

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About Yanfeng

Yanfeng is a leading global automotive supplier, which focuses on interiors, exteriors, seating, cockpit electronics and passive safety. Yanfeng has more than 240 locations and approximately 57,000 employees worldwide. The technical team of 4,200 experts is located at 12 R&D centers and other regional offices, with full capabilities including engineering and software development, design and user experience, and test validation. Focusing on Smart Cabin and lightweight technology, Yanfeng helps automakers to explore future mobility concepts and provide leading cabin solutions. For more information, please visit www.yanfeng.com.