



PreSense Drive - Interactive Simulation of Sounds in the Vehicle Interior

The latest HEAD acoustics software, [PreSense Drive](#), realistically and interactively simulates the sounds in the vehicle interior, offering users of vehicle simulators a unique immersive experience.

PreSense Drive is an efficient and affordable solution for realistically simulating vehicle noises and sounds. It ensures the highest auralization quality and binaurally calibrated playback on headphones, loudspeakers, and vibration excitation by shakers - for an immersive physical sound experience that gives drivers the feeling of being in a moving vehicle and acting accordingly. PreSense Drive thus provides a realistic basis for designing the sound space, for example, in HMI (Human-Machine Interface), ASD (Active Sound Design), ADAS (Advanced Driver Assistance Systems), and sound design projects.

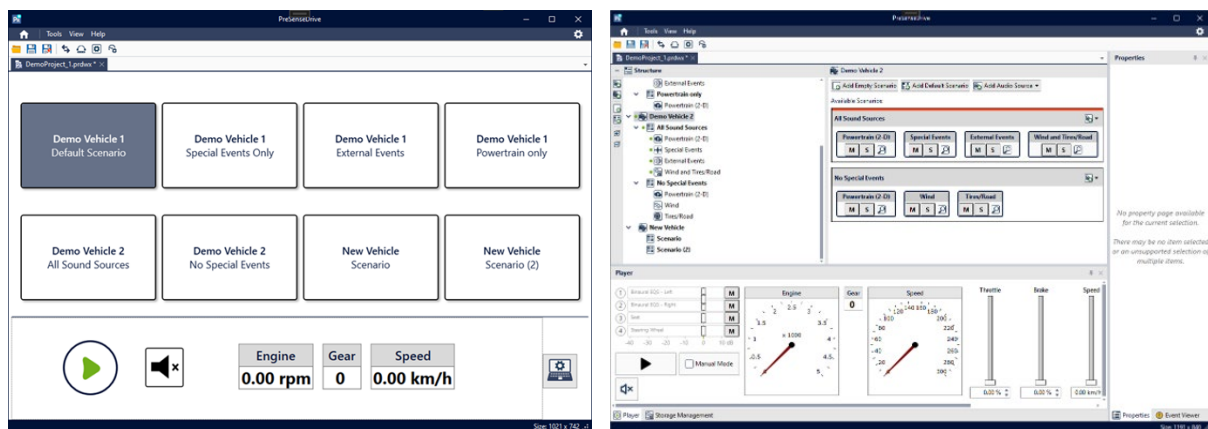
PreSense Drive is based on the technology of the [PreSense NVH Simulator](#) and uses the same advanced algorithms, operating concepts, data sets, and interfaces. It offers user-friendly operation and can be easily integrated into any driving simulator, e.g., via API such as CAN, gRPC, or IPG CarMaker. Additionally, PreSense Drive is compatible with both conventional vehicles and electric and hybrid vehicles (EVs and HEVs).



PreSense Drive and 3PASS flex in the HEAD acoustics SoundSeat

PreSense Drive offers ...

- a cost-effective, realistic sound simulation of the vehicle interior,
- high-quality, lifelike auralization,
- a high degree of immersion,
- effortless integration into vehicle simulators from other manufacturers and
- simple operation.



PreSense Drive simulates the following audio sources:

- Drive train
- Tire/road noise
- Wind noise
- Special events (individual noise events such as indicators, horn, tire and brake squeal, etc.)
- External events (passing vehicles, sirens, tunnel driving, etc.)

All information about PreSense Drive can be found here: <https://www.head-acoustics.com/products/nvh-simulation/presense-drive/>

We would be happy to provide you with additional information and address any questions you may have. Please contact us at sales@head-acoustics.com

About HEAD acoustics

HEAD acoustics GmbH is one of the world's leading companies for integrated solutions for sound and vibration analysis. The company enjoys worldwide recognition in the telecommunications industry due to its expertise and pioneering role in the development of hardware and software for measuring, analyzing, and optimizing speech and audio quality, as well as customer-specific solutions and services. HEAD acoustics' range of services includes sound and vibration analysis for technical products, investigation of environmental noise, speech quality, training, and support. The medium-sized company from Herzogenrath near Aachen has subsidiaries in China, France, India, Italy, Japan, South Korea, the UK, the USA, and numerous sales partners worldwide.