



Bluetooth® LE audio testing in a new dimension

HEAD acoustics, a leading provider of comprehensive audio testing solutions, presents a comprehensive test solution for Bluetooth® LE Audio, including Unicast and Auracast™ technologies. Following a successful beta phase with renowned tech companies, the new *labCORE* hardware extension together with software extensions for Unicast, Auracast™, and IMP are now available for order and provide a consistent, controlled Bluetooth® LE audio connection for reliable acoustic measurements using the LC3 codec. The USB connection allows the module to be connected to the *labCORE* platform immediately, eliminating the need for complex hardware integrations and offering clear advantages in terms of time savings and cost reduction. The modular architecture allows customers to purchase exactly the features they need and expand them as required at any time, including optional packet impairment testing and comprehensive manual connection control for targeted, reproducible testing.

Comprehensive test solution for Bluetooth® LE Audio

HEAD acoustics already covers the entire test range for classic Bluetooth® audio applications and now fully integrates both LE audio technologies into the powerful *labCORE* test front end, which serves as a reference implementation for both Unicast testing (gateway and terminal) as well as for Auracast™ transmitters and receivers. The software-based architecture with integrated LC3 codec enables automated, precise, and practical evaluation of all Bluetooth® LE Audio scenarios.

In combination with the ACQUA analysis system and the 3PASS*lab*, 3PASS*flex*, and 3PASS*reverb* simulation solutions, HEAD acoustics offers a consistent test environment for all device types and applications.

Complete test solution for the future of Bluetooth® audio technology

- Unicast and Auracast™ reference client for source and sink
- LC3 codec reference integration for realistic testing

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- Seamless integration into the HEAD acoustics test environment
- Automated testing with ACQUA for efficient product development
- Future-proof thanks to software-based implementation
- Robust and customer-tested: reliable in real-world use

Technical features in detail

- **PBP/BAP** (Public Broadcasting Profile/Basic Audio Profile) for setting up and managing Auracast broadcast streams
- **TMAP/BAP** for controlled setup and management of unicast audio streams
- **Published Audio Capabilities Service (PACS)** for providing and specifying relevant audio and device features
- **CSIP/CSIS** (Coordinated Set Identification Profile/Coordinated Set Identification Service) for the targeted identification and joint control of coordinated sets for synchronous audio streaming
- **VCP** (Volume Control Profile) based on **Voice Control Service** for determining and specifying the volume status of the device under test

HEAD acoustics LE Audio Testing Product Structure

- **coreBT2LE-EVO**: Basic hardware product
- **coreBT2LE-Auracast™**: For Auracast™ broadcast scenarios
- **coreBT2LE-Unicast**: for typical Unicast device-to-device connections
- **coreBT2LE-IMP**: extension for Auracast™ and Unicast for simulating impaired radio transmission

With this solution, HEAD acoustics is setting a new standard in Bluetooth® LE audio testing and helping manufacturers develop their products optimally for the market.

For more information, visit: <https://www.head-acoustics.com/technology-focus/bluetooth-le-audio/>

About HEAD acoustics

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