CarmenCita
Acoustics for multipurpose venues

Now, the acoustics of small and medium-sized venues can be adapted to each performance, thanks to the active acoustic system CarmenCita. Enrich your artistic lineup and amaze your audience at every event.
carmen.cstb.fr
CarmenCita

The know-how of the CSTB, serving excellence

The CarmenCita system offers modularity and high sound quality for all multipurpose venues and rehearsal spaces. Developed by the acoustic engineers at the CSTB, CarmenCita is based on the technology and know-how of the Carmen system, developed for large concert halls and greatly appreciated by professionals. CarmenCita instantly adapts a venue’s acoustics to its use – symphony, opera, chamber music, theater, cinema – by adjusting the reverberation time, tone balance and immersion in the music.

- Preserved natural acoustics
- Homogeneous effect throughout the hall (regenerative system)
- Acoustic presets on-demand
A UNIQUE ACTIVE ELECTROACOUSTIC TECHNIQUE

The CarmenCita system uses active electroacoustic cells consisting of microphones and loudspeakers. These cells are distributed evenly throughout the ceiling and walls, so that the hall’s reverberation time is controlled naturally. The CarmenCita processor generates acoustic and electronic matrices of natural sound propagation paths. During installation, an automatic adjustment procedure attunes the matrices to each acoustic preset, so that the CarmenCita system adapts precisely to the venue.

AN ALL-NEW SOUND IMMERSION EXPERIENCE

The loudspeakers of the cells can also be used as a soundscape diffusion system. Thanks to the uniform arrangement of the loudspeakers around the hall, the user can control the position of the sound sources during a performance, in real time. This spatialization system offers the audience an exceptional acoustic immersion experience.

The wireless touchscreen remote control also makes it possible to choose the hall’s acoustic preset in real time, and provides user-friendly control over the functions of the spatialized diffusion system.

EASY TO LEARN AND USE

CarmenCita is simple and user-friendly: a touchscreen remote control activates the system and presets can be switched from the touchscreen in the hall or on the stage by simply selecting the corresponding setting.

Professional support

The installation of CarmenCita in a venue does not require any major work or prior architectural modifications. Once in place, the equipment is fully integrated into the hall.

A complete acoustic study is conducted in cooperation with the architect for the positioning of the cells and their integration into the hall. The cells are wired and installed by a partner company specializing in the engineering and implementation of digital audio systems.

Next, the experts of the CSTB adjust the system and the various acoustic presets requested.

How CarmenCita works

[Diagram showing the setup and control system of CarmenCita]
Performance halls and rehearsal spaces can benefit from CarmenCita technology.

For symphony, opera, chamber music, theater or cinema: adapt the acoustics of your venue with just one click and offer a unique sound experience to your performers and audience.

✪ Several different acoustics in a single hall
✪ Discreet installation without construction work
✪ Simple to use: control the system with a touchscreen tablet

Inside of buildings or in city centers, sound and vibration waves are key challenges for the quality and comfort of living spaces. Beyond its expertise in room acoustics, the CSTB has competencies in acoustics at all scales, from materials to buildings and cities. Cutting-edge expertise, coupled with a full array of digital and experimental analysis methods, enable the CSTB to solve the most complex acoustic issues: urban sound environments, annoyance caused by underground worksites, sophisticated multilayer systems, intelligibility in vehicles, etc.

TO TEST CARMENCITA
Come to our showroom to appreciate how the system performs, by appointment, at the CSTB
4, avenue du recteur Poincaré, Paris 16e

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FIND OUT MORE
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