



Public Address for Sports Facilities

Clear communication and high sound quality
designed for sports and recreational venues.



We make everyday life safer

Public Address for Sports Facilities

A well-designed public address system is an essential part of any sports facility's equipment. It can be used for hosting special events, sporting competitions, as well as cultural or artistic events. Regardless of the nature of the event, the quality of the sound system has a direct impact on the overall experience—both for participants and spectators.



A system designed for sports halls, swimming pools, ice rinks, or fitness clubs must be flexible, easy to operate, and reliable. It supports both everyday activities such as classes and training sessions, as well as larger sporting or special events. That is why it is so important for the equipment to work seamlessly with various audio sources, provide stable performance, and allow for easy management of the entire installation.

Thanks to a well-thought-out architecture and carefully selected components, the public address system ensures clear speech intelligibility and even sound coverage throughout the entire venue—from the playing area and technical zones to the surrounding facilities. It is a solution that turns every sporting event into a perfect sounding experience.

HOSTING SPECIAL SESSIONS AND EVENTS

The public address system supports a wide range of activities, enabling **quick switching between audio sources** and full control over each zone.

BACKGROUND MUSIC PLAYBACK

The system delivers high-quality sound and, when needed, allows **connection to mobile devices** and external audio sources.

ANNOUNCEMENTS BROADCASTING

Integration with microphones ensures **clear announcements throughout the entire facility**, supporting event organization and user safety.

Case study - School sport hall

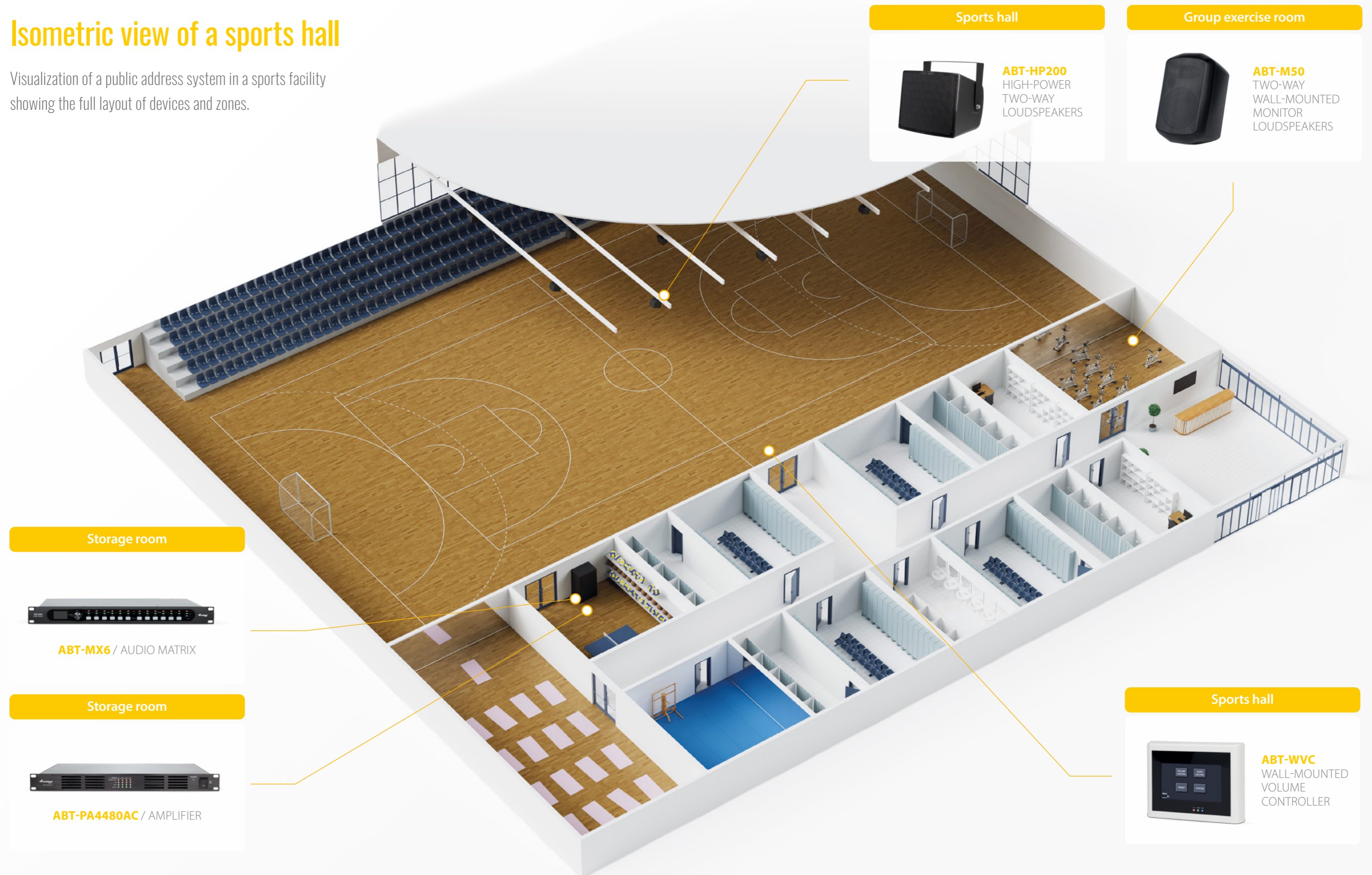
Inside the sports hall, the installation includes high-power loudspeakers, wireless system receiver antennas, a touchscreen controller, and an audio connection panel.

The entire system will be operated from a wall-mounted rack cabinet housing the audio matrix, sound sources, and a multichannel amplifier. Users will have access to wired and wireless microphones, as well as a multifunction player with mobile device connectivity (Bluetooth). The system also allows additional audio sources to be connected, such as a computer or a mixer.



Isometric view of a sports hall

Visualization of a public address system in a sports facility showing the full layout of devices and zones.



Sports hall



ABT-HP200
HIGH-POWER
TWO-WAY
LOUDSPEAKERS

Group exercise room



ABT-M50
TWO-WAY
WALL-MOUNTED
MONITOR
LOUDSPEAKERS

Storage room



ABT-MX6 / AUDIO MATRIX

Storage room



ABT-PA4480AC / AMPLIFIER

Sports hall



ABT-WVC
WALL-MOUNTED
VOLUME
CONTROLLER

Public Address Technology — Key Components of a PA System

A modern public address system is a flexible platform that enables precise management of audio signals in sports and multi-purpose facilities. With advanced sound processing, the ability to integrate with other devices, and a scalable architecture, the system adapts to the specifics of the space and the needs of its users.



ABT-MX6 / AUDIO MATRIX

The ABT-MX6 audio matrix is the central element of the public address system. It is responsible for routing input and output signals as well as their digital processing.

- » Multi-channel audio matrix equipped with a navigation knob for menu control
- » 6 analog inputs × 6 analog outputs
- » 4 RD ports



ABT-MX12 / AUDIO MATRIX

The ABT-MX12 matrix offers 12 inputs and 8 analog outputs. Its advanced DSP options enable precise sound shaping, including level adjustment, equalization, dynamics processing, and signal routing management.

- » Multi-channel audio matrix
- » 12 analog inputs × 8 analog outputs
- » 4 RD ports for connecting microphones and controllers



ABT-PA2480AC / ABT-PA4480AC / POWER AMPLIFIER

Multi-channel Class D power amplifiers deliver an output power of 480 W per channel, ensuring high energy efficiency and sound quality, complemented by a high-pass filter and an automatic standby mode when no signal is detected. The compact 1U chassis allows easy integration into various audio systems, making them an ideal solution for conference rooms, industrial facilities, and shopping centers.

- » Multi-channel power amplifiers
- » 480 W output power per channel
- » High-efficiency Class D amplifier
- » High-pass filter designed for improved sound control



ABT-DM3 / ABT-DM6 / ZONE MICROPHONES

Zone microphones designed to work with ABT-MX6 / MX12 matrices—enabling both live and pre-recorded announcements, as well as quick zone selection and operation in complex PA installations.

- » Configuration via PC and the matrix LAN port
- » Live announcements and playback from device memory
- » Flexible zone selection



ABT-WVC / WALL-MOUNTED VOLUME CONTROLLER

The ABT-WVC wall-mounted volume controller is equipped with a 4.3-inch touchscreen display. It is designed for remote control of ABT-MX6 / MX12 matrices, enabling volume adjustment and signal routing.

- » 4.3" touchscreen LCD display
- » Three LED indicators for operation, communication, and fault status
- » Range of up to 100 meters



ABT-DIO / DANTE INTERFACE

The ABT-DIO is a 2-input / 2-output audio processor dedicated to the Dante network. It provides a solution for distributing music and announcements, and for managing zones in sound reinforcement systems.

- » Audio processor dedicated to the Dante network
- » 2 analog inputs/outputs
- » 2 digital inputs/outputs
- » Advanced AEC/FBC algorithms



ABT-HP200 / TWO-WAY PA LOUDSPEAKERS

The ABT-HP200 is a coaxial two-way loudspeaker with a power rating of 200 W, designed for operation in 70V and 100V systems. It is ideally suited for use in sports and multi-purpose facilities.

- » Two-way coaxial design
- » 200 W transformer for 70V and 100V lines
- » High energy efficiency
- » Easy installation



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Ambient System products are continually improved. All specifications are therefore subject to change without prior notice.

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