



BOSE

PROFESSIONAL

CASE STUDY – SPORTS VENUES
SHANGHAI INTERNATIONAL EQUESTRIAN CENTER



SHANGHAI INTERNATIONAL EQUESTRIAN CENTER ELEVATES THE EQUESTRIAN EXPERIENCE WITH IMMERSIVE SOUND

In the heart of Shanghai, a new venue is redefining the equestrian experience. The Shanghai International Equestrian Center opened as the host of the prestigious Shanghai Longines Global Equestrian Championship, bringing world-class competition to an increasingly enthusiastic audience in China. To meet international standards, the venue required not only top-tier facilities but also an advanced sound system capable of delivering clear, immersive audio across its expansive space.

AIMING TO BE A PLACE THAT CAN PROVIDE VALUE TO ALL VISITORS

Unlike traditional sports arenas, which typically prioritize volume above all, equestrian venues require a delicate balance of clarity and subtlety. The sound system needed to project clear commentary, music, and event announcements while ensuring that the natural sounds of the sport—the rhythmic gallop of horses, the cues from riders, and the crowd's energy—remained an integral part of the experience.

Shanghai International Equestrian Center identified three key goals for the new system:

- Even coverage across both the competition arena and spectator stands.

- High intelligibility for speech and music in an open-air setting.
- Seamless integration with a modern digital infrastructure for precise control and tuning.

To address these challenges, the Shanghai International Equestrian Center partnered with Bose Professional to develop an audio system tailored to the unique needs of equestrian events.

BOSE PROFESSIONAL BRINGS PRECISION, POWER, AND INTEGRATION

Bose Professional engineers designed a system centered around ArenaMatch loudspeakers, chosen for their IP55-rated outdoor durability and ability to deliver clear, uniform coverage.

The system features 54 ArenaMatch modules—including AM40, AM20, and AM10—spread across 12 groups to ensure consistent sound distribution throughout the audience area and competition zone. The system is powered by 16 PowerMatch PM8500N amplifiers, with two backup units in place for redundancy. ControlSpace EX-1280C processors manage digital signal processing, while Dante networking enables efficient signal distribution between the control room and amplifier racks.

A venue of this scale required careful planning to optimize speaker placement and avoid acoustic challenges. Bose Professional engineers utilized Modeler® 3D software



to simulate how sound would behave in the space. The Auditorer® listening simulation system further refined the design, allowing engineers to preview the system's performance before installation. This approach ensured that each speaker was positioned for maximum clarity and natural sound reproduction.

ENHANCING THE EQUESTRIAN EXPERIENCE

With the new Bose Professional system in place, the Shanghai International Equestrian Center delivered a truly immersive audio experience for the recent Longines Global Equestrian Championship. Spectators noted the clarity and consistency of the sound, which enhanced the competition without overpowering its natural elements. The system's ability to provide even coverage and precise speech intelligibility certainly bodes well for future events at the venue.

By partnering with Bose Professional, the Shanghai International Equestrian Center successfully implemented a reliable, well-integrated sound system that supports both the technical demands of international competitions and the expectations of modern audiences.

SYSTEM COMPONENTS

ArenaMatch AM40 DeltaQ array loudspeaker

ArenaMatch AM20 DeltaQ array loudspeaker

ArenaMatch AM10 DeltaQ array loudspeaker

PowerMatch PM8500N configurable power amplifier

ControlSpace EX-1280C conferencing sound processor

Modeler 3D modeling program



PARTNER:
BNC TECHNOLOGY LIMITED



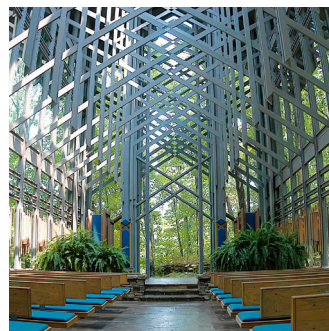
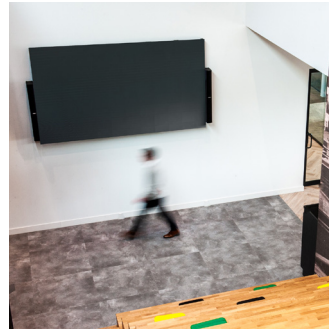
ARENAMATCH **AM40 DELTAQ**

Bose Professional ArenaMatch loudspeakers bring proven DeltaQ sound quality and flexibility to outdoor installations — sports stadiums, arenas, outdoor entertainment centers, and more. Rated for direct-exposure outdoor installations, ArenaMatch DeltaQ modules make it easy to create outdoor loudspeaker arrays that bring consistent, intelligible sound to every listener. Nine coverage patterns are available. Choose from modules with 10°, 20°, or 40° vertical coverage and easily swap between 60°, 80°, or 100° horizontal waveguides to build arrays that are lighter, require less installation time, and can lower overall system costs by delivering full coverage with fewer modules.



POWERMATCH **PM8500N**

The Bose Professional PowerMatch PM8500N configurable professional power amplifier provides concert-quality sound with a high level of scalability and configurability for fixed installation sound reinforcement systems. Ethernet-based networking enables configuration, control and monitoring, and an expansion slot supports input from optional digital audio accessory cards. The front-panel USB connection allows for direct configuration PC connection to a single amplifier. PowerMatch amplifiers utilize numerous Bose Professional technologies to deliver an unprecedented combination of performance, efficiency and ease of installation—all in a reliable, proprietary design.



Bose Professional serves many different markets, delivering great sound in venues all around the world — performing arts centers, theaters, places of worship, stadiums, restaurants, schools, retail stores, hotels, and corporate buildings.

We know that our pro audio customers depend on us in a unique way. This is your business, your reputation, your livelihood — not just an amp, not just a loudspeaker. So, when you buy a Bose Professional product, you get the full weight of the global Bose Professional team behind you — our time, support, and attention. We see every purchase as the beginning of a partnership.



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