



BOSE

PROFESSIONAL

CASE STUDY - PERFORMING ARTS | TEATRO MANZONI



APPRECIATING THE TIMELESS BEAUTY OF TEATRO MANZONI - WITH FRESH SOUND

Founded in 1870 and named after Italian poet, novelist and philosopher Alessandro Manzoni, Teatro Manzoni is among the most prestigious Italian theaters protected by the fine arts stewardship. Located in the center of Milan, in the heart of the fashion district not far from Via Montenapoleone and Piazza della Scala, the theater was reconstructed in 1950 after the building was demolished in a bombing during World War II.

The large atrium spaces, the elegant foyer and the theater room, which seats 838 guests, feature ornate frescoes by neoclassical painter Achille Funi and sculptures by stonemason Leone Lodi.

The Teatro Manzoni was in need of an audio upgrade worthy of its prestige to deliver a more unique, more robust experience without distracting from the history of the storied theater. To accomplish this goal, Teatro Manzoni management selected Bose Professional partner Techlit to renovate its audio system.

ENSURING MODERN RENOVATIONS RESPECT HISTORIC DESIGN

The challenge was to deliver a consistent, superior audio experience beginning from the moment one enters the theater's entrance and progresses to the theater room without detracting from the historic aesthetics of the space.

In the building's entrance, bar and foyer, Techlit created an internal audio distribution solution that delivered music and clear announcements creating the desired atmosphere, while being confined to the specific spaces. The theater needed a modern system to deliver a high-quality, immersive sound experience that seamlessly blended with the structural details, while remaining independent from the occasional rented sound system.

It was a simple goal, but a complex request. By utilizing Bose Professional's wide range of unmatched solutions, Techlit created an ideal solution throughout the variety of spaces.

A UNIQUE BLEND OF OLD AND NEW FOR THEATERGOERS

In the entrance hall, two RoomMatch Utility RMU105 loudspeakers are hidden in the staircase, welcoming attendees into the theater and guiding them to socialize at the bar, which is served by a single Panaray MA12EX loudspeaker.



Moving into the foyer, four additional RoomMatch RMU105 loudspeakers are positioned in the hollows together among the frescoes. Here, the marble creates high reverberance in the room, which was addressed through processor equalization, transforming an acoustically challenging space into a place ideal for press conferences and background music.

The modern audio system is controlled by a PowerMatch PM4500N power amplifier, and, in addition to delivering music, every loudspeaker provides the voice intelligibility to be used for message announcements.

“With this new audio system, there is no need for external rental services for most of the events,” said Alessandro Arnone, Teatro Manzoni general manager. “The Bose Professional solution delivers an upper-level sound experience with great coverage despite its size.”

— Alessandro Arnone
General Manager, Teatro Manzoni

As attendees move down the carefully crafted musical path toward the main theater room, they experience the main audio solution that consists of two stacks, each made up of three Panaray MSA12X self-powered loudspeakers located to the left and right, configured in dual-beam mode. This configuration guarantees sound consistency in the stalls and galleries without any reflection on the balcony, as each beam is adjusted separately and optimized following the

theater shape.

Bose Professional’s proprietary Articulated Array transducer allows for 160° horizontal coverage configuration, so only two RoomMatch Utility RMU105 loudspeakers were needed for front fill. Two MB210 subwoofers complete the theater room loudspeaker solution, delivering deep bass from a compact cabinet.

The entire theater experience is controlled by two processors—a ControlSpace EX-1280C and ControlSpace ESP-1240AD—with 14 inputs and four outputs in total. The ControlSpace EX-1280C, in conjunction with the Panaray beam coverage and the system presets, supports microphones and video projection as well as manages a variety of inputs, from the foyer loudspeakers to microphones to an external mixer.

The ControlSpace ESP-1240A processor is connected to an input/output patch. Inside the same rack, the ControlSpace CC-64 controller manages the volume, and a PowerMatch PM8500N amplifier runs all the loudspeakers, except the two self-powered Panaray stacks.

A DISTINCTIVE THEATER EXPERIENCE TO WITHSTAND THE TEST OF TIME

The minimalistic loudspeaker design and the extremely precise sound coverage made the Bose Professional solution the perfect audio system for the historic theater, improving room aesthetics while simplifying sound management for theater staff.

“The main priority for a historic theater like Manzoni is to respect its architecture with minimal aesthetic impact,” said Andrea Di Nicola, Techlit project manager. “The Panaray MSA12X loudspeakers’ design allows for an almost invisible solution.”

Now, the theater has an almost indiscernible audio system that, despite its size, delivers precise coverage for the stalls and balcony seating with outstanding vocal intelligibility and tonal consistency. On the rare occasion when a bigger system is required, external rental services can easily integrate additional audio components without enabling the resident speakers, providing true system flexibility.

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SYSTEM COMPONENTS

THEATER ROOM

- ControlSpace EX-1280C** processor
- ControlSpace EX-1240AD** sound processor
- ControlSpace CC-64** control center
- MB210** compact subwoofer
- Panaray MSA12X** loudspeaker
- Panaray MA12EX** loudspeaker
- PowerMatch PM4500N** amplifi
- RoomMatch Utility RMU105** loudspeaker

ENTRANCE HALL

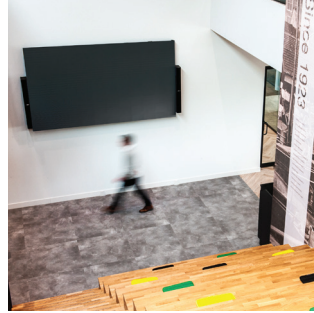
- RoomMatch Utility RMU105** loudspeaker

BAR

- Panaray MA12EX** loudspeaker

FOYER

- RoomMatch Utility RMU105** loudspeaker
- PowerMatch PM4500N** amplifier



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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