

BOSE

PROFESSIONAL

CASE STUDY - EDUCATION | MIDDLEBOROUGH HIGH SCHOOL





HIGH SCHOOL ENVISIONS SPACE FOR COMMUNITY

With \$100 million dedicated to the rebuild of Massachusetts' Middleborough High School, the transformation is noted as the largest renovation the school district has ever seen. The new and improved school was built with a noble purpose — to engage each student with an innovative, 21st century learning experience.

The building and campus have been completely transformed with 165,000 square feet of academic-focused construction and an on-site athletic facility complete with a stadium supporting a variety of sporting activities. This includes a three-story academic wing; a health and fitness wing complete with a gymnasium, fitness and weight room; and a third wing housing the performing arts that is inclusive of an auditorium, black box theater, television production studio, and an area for both band and choral programs.

The school wanted the auditorium to be used for not only students and teachers, but also community members. To exceed these goals, the school needed to provide a sound system that could keep up with the diverse activities planned for this space.

CREATING A VENUE FOR AN ARRAY OF EVENTS

The original auditorium fell short of meeting the high school's needs with a claustrophobic, unwelcoming layout utilizing dated technology and equipment. Since auditoriums are the heart of a school where the community can come together for a shared activity, Middleborough High School envisioned a space that would fulfill that purpose and truly embody its culture.

Sean Siciliano, coordinator of district technology for Middleborough High School, explained that their auditorium will be used for more than just high school performances. It would be a flexible venue designed for a variety of activities, such as plays, concerts, assemblies and town hall meetings. Additionally, the events not only provide the community with the capability to gather and entertain, but also opportunities to prepare students for the future through student-supported AV activities working the advanced equipment.

"We wanted to make this a spot where kids could go to get the best equipment, be in a real-life training situation where if they left this high school or go out in the field, this is real-life skills and real things they will see when they get out in the world," Siciliano explained.

Given the magnitude of the construction project, the school brought in consulting firm 3Si to focus on the design of the auditorium and Pro AV Systems and Levangie Electric to



develop and install a sound system that would engulf every attendee with superior quality and clarity.

BOSE PROFESSIONAL SOLUTION ENHANCES STUDENT LEARNING

The school now has a completely transformed multi-use venue with a spacious 750-person seating capacity outfitted with a customized Bose Professional solution.

The full digital audio mixer, complete with Dante technology, allowed the team to take advantage of limited wiring and network the technologies together for ultimate communication capabilities. For instance, administrators and student event workers can now talk to each other between the auditorium and TV studio, allowing for seamless event execution.

To provide concert-quality sound with a high level of scalability and configurability, a PowerMatch PM8500N power amplifier is paired with the ShowMatch SM10, SM20 and SM5 DeltaQ array loudspeakers for unsurpassed sound quality and vocal clarity. They finished the custom solution with the ShowMatch SMS118 subwoofer to extend the low-frequency ranges.

“The Bose Professional system was the best purchase for us,” Siciliano commented. “Implementing AV technology was a way to empower our students and give them the opportunity to learn these advanced systems.”

Pro AV Systems’ Director of Bid Desk and Communications, Adrienne Blasioli, and Project Manager, Slade Forni, were pleased with the exceptional outcome of the design and technology advancements that met the learning objectives the school requested.

“The auditorium, in combination with the black box theater, is a showpiece where they can hold events, but it’s also a classroom space where kids can learn,” Blasioli said.

Forni added, “The Bose Professional team was very responsive, easy to work with and helpful throughout the process.”

BOSE PROFESSIONAL HELPS UNITE A COMMUNITY

The school moved into the building in April 2021 and wasted no time breaking in the space.

The theater department hosted its first show in May, albeit with a limited audience due to social-distancing restrictions. As the school year progressed, they held their first school committee meeting in the auditorium and a scholarship event for seniors that summer.

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— Sean Siciliano
Coordinator of District Technology
Middleborough High School

Being the largest, most technologically advanced and centrally located venue in town, the school now invites the community to take part in its school functions and can host external events, like the town hall meeting.



The auditorium also serves as a source of income for the school with the ability to rent it out for functions like dance or theatrical camps, company events and performances. The auditorium has truly become the center of the community, bringing much pride and excitement to administrators and students alike.

The space not only afforded the school the ability to host various events, but also provided an exceptional, real-life learning experience for students. Once the system was installed, students were taught how to use the equipment so they could take lead on running technical event operations. This experiential learning illustrates the school's commitment to excellence and its students, providing them with skills to use in the real world.

"The learning experience was a core focus during this project. We wanted to find a way to get the students engaged and provide them tools that they could possibly use in the future," Siciliano said. "The kids are ecstatic! They are the ones who drive all the events and performances from a technical side. Experiential learning is huge now, and with this new system, they now have a fantastic learning experience."

The school is now able to serve its students, administration and community in a multi-functional space that invites a culture of performance, engagement and learning. ■

SYSTEM COMPONENTS

PowerMatch PM8500N power amplifier

ShowMatch SM10 DeltaQ array loudspeaker

ShowMatch SM20 DeltaQ array loudspeaker

ShowMatch SM5 DeltaQ array loudspeaker

ShowMatch SMS118 subwoofer

MB210 subwoofer

PARTNER: **PRO AV SYSTEMS**



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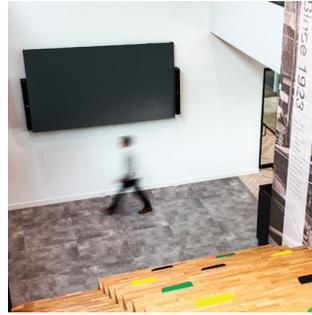


POWERMATCH PM8500N POWER AMPLIFIER

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. 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.

SHOWMATCH DELTAQ ARRAY LOUDSPEAKER

Feature replaceable waveguides that allow changing coverage and asymmetrical patterns, in compact enclosures optimized for both installation and portable applications requiring the best possible (top-class) sound quality.



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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