

Constellation



Every performance deserves to be heard with the right acoustics. Meyer Sound's Constellation electroacoustic architecture makes a venue sound its best for every event.

thinking sound



Constellation

Constellation electroacoustic architecture is a system that combines the natural acoustics of a space with powerful technology to create acoustics with natural characteristics, the aural qualities of the world's best rooms, and broad flexibility. Created by experts in acoustics, classical music, and digital processing technology, this system was developed to give venues the ability to supply appropriate acoustics for each kind of performance they host, all accessible with a single button press.



Constellation Ensemble™ provides performers with an electronic orchestra shell.



Audiences are more engaged when they feel immersed in the sound of the crowd.

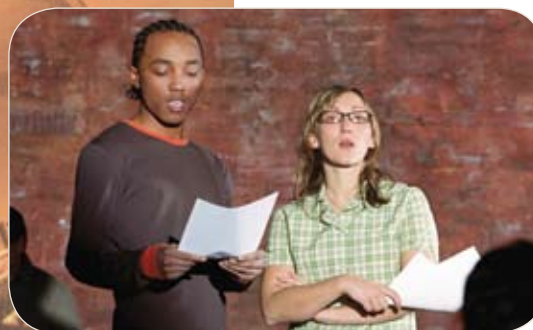


Constellation offers rich, natural acoustics appropriate for any genre of music.





For choral singing, Constellation supplies clarity, warmth, and body.



Speech sounds intimate and intelligible with Constellation's VoiceLift™ feature.



Constellation Experience Settings enable sound designers to take audiences through fanciful environments.

“ *Constellation is, to my ears, living proof that skilled engineering and technology can indeed improve the physical spaces where we listen to music.*”

– John Adams
Pulitzer Prize-winning
composer



“Most new venues are being built to be multipurpose, and existing ones are broadening their scope of events. Constellation is a powerful and carefully considered response to the formidable acoustical needs of multipurpose venues.”

– John Meyer

A New Approach to Venue Acoustics

Constellation electroacoustic architecture was designed to bring the acoustics of the world’s finest concert halls and performance spaces to a wide range of venues at a fraction of the cost of physical modifications. Constellation combines advanced digital and transducer technologies with decades of research into the attributes that make for exceptional listening spaces to create a system that provides natural-sounding variable acoustics. Now, venues can provide every performance with appropriate acoustics that satisfy the most discriminating audiences and performers alike.

Constellation represents a true breakthrough in venue acoustics that solves a major challenge performance spaces have faced for years. In the past, venues were built to have the proper acoustics for their intended use: theatres were designed for plays, concert halls for music, lecture halls for speech, cinemas for film surround sound. But today’s venues need to be multipurpose, and the acoustics that sound best for one kind of performance are not necessarily ideal for all kinds.

This hurdle has often led to compromise in a venue’s acoustics, including the use of expensive and awkward architectural

modifications, such as orchestra shells and secondary chambers, to vary their acoustics.

Constellation is a complete solution that lets venues alter their acoustics instantly while remaining virtually invisible to the eye. Constellation provides both audience and performers with the optimum acoustical characteristics for a lecture, theatrical production, music concert, or other event. For the audience, a music concert in a multipurpose venue can have all of the warmth and resonance of a concert hall, while a play in the same space exhibits increased intelligibility. Musicians hear themselves better, creating an onstage acoustical experience conducive to ensemble musicmaking.

With this enhanced acoustic capability, a venue can fill its calendar with a diverse and busy schedule of events and performances of all kinds. Constellation is scalable as well as flexible, making it suitable for venues of any size and type.



FEATURES & BENEFITS

- Enables venues to provide optimal acoustics for any performance.
- Natural sound based on attributes of the world's best-sounding venues.
- A complete system that integrates rigorous design, calibration, and certification methodologies with a flexible hardware and software package.
- Each system custom-created by a team of qualified experts.
- Far less expensive and more flexible than architectural solutions

“*Meyer Sound’s Constellation solved a major problem for us as we planned our Centennial Celebration Performance and Gala comprised of dance, music and a large orchestra and chorus all in one evening. It was the only way we could pull it off.*”

– **Robert Cole**, Director of Cal Performances

Certified Sound

Constellation is a fully integrated turnkey solution, consisting of a combination of Meyer Sound’s patented VRAS™ technology with the support of the company’s highly trained and certified professionals. This approach ensures that every Constellation installation is correctly designed for the particular venue and its needs, properly installed using linear and consistent components carefully designed and built by Meyer Sound, and rigorously calibrated and tuned to obtain the most effective and natural sound, and realize the objectives set out in design discussions. Meyer Sound’s Constellation team will be involved in the final calibration and tuning, as well as a site construction progress visit during installation and a follow-up visit after the final tuning.

In designing and calibrating electroacoustic architecture, experience is crucial in understanding how to make theory work in practice. With the Constellation system, the collective skills of Meyer Sound’s team of qualified specialists in acoustics, classical music recording and live sound, as well as John Meyer himself, are brought to bear on the venue to provide a complete solution.

Once the system is in place and fully calibrated and tuned, it is put under the user’s control with an intuitive, easy-to-use interface. Meyer Sound will conduct a follow-up visit after the final tuning to ensure that the system is working properly, and meets the needs of the venue.





“*Performing at Zellerbach Hall with the Constellation system, one can deeply appreciate how far technology and science have developed. The hall’s acoustics come to life in response and one can tell that the audience and musicians are having a new and extraordinary experience.*”

- **Maestro Kent Nagano**, Music Director
Berkeley Symphony Orchestra
Montreal Symphony Orchestra
Bayerische Staatsoper

Constellation Ensemble™

Constellation is not just for audiences; performers do their best when they feel immersed in the room. Constellation Ensemble provides an electronic version of the traditional orchestra shell to improve the experience of the performers and help them hear their fellow performers and everything happening onstage. Constellation Ensemble has much more flexibility than physical orchestra shells, as it does not require any setup or physical construction, which gives venues even greater adaptability. For performances involving groups, such as dancers or larger choruses, Constellation Ensemble ensures that artists are able to give their best performances.

Further, Constellation Ensemble systems can be expanded for situations involving sizable ensembles. Never before have venues enjoyed such flexibility.





VoiceLift™ Brings the Audience Closer

Constellation's VoiceLift feature improves intelligibility in applications where groups of people need to understand presenters clearly, without having to directly mic the people talking. VoiceLift adds early reflections that are critical in bringing presence and immediacy to spoken word presentations. For a corporate meeting, VoiceLift can ensure that each word is clearly heard by everyone, without directly mic'ing the presenter. VoiceLift can help make every line of dialog in a high school play or musical be clearly understood all the way to the back of the auditorium. This is especially helpful in applications where the people presenting are not experienced at speaking directly into microphones, or where many people are talking on stage at once. In addition, this eliminates the need for an experienced audio operator.

Crowd Enhancement Satisfies Audiences

Constellation's ability to make audiences feel immersed in their environment has significant benefits in many applications. Those at sporting events feel isolated if a lack of reverberation keeps them from perceiving themselves to be in the middle of a crowd, often causing them to sit on their hands. With Constellation, fans feel they're at the heart of the action and are moved to participate more. Similarly, congregational singing in houses of worship is enhanced by Constellation, which makes congregants feel at home in their community and inspires them to join in. Almost any performance can benefit from an audience that feels they are immersed in the environment, especially during applause or audience involvement.

“*I was thrilled by the experience. The overall enjoyment of the show was enhanced by the fact that you could hear every element of the performance discretely. That’s what we strive for in sound design but so often the technology gets in the way. Constellation creates an acoustic environment that is natural and perfectly suited to the type of performance, and this opens up a lot of exciting possibilities for what can be done with sound.*”

– **Craig Berkey**, Sound Designer
“Superman Returns,” “I, Robot,” “X-Men”





“As a sound designer, Constellation’s ability to create natural-sounding acoustics is a huge asset. Constellation Experience Settings let me build on that fundamental capability to carefully sculpt the sonic environments I need for a production, whether they are realistic or flights of fancy, and take the audience through them as if traveling to a series of different worlds.”

– **Jonathan Deans**, Sound Designer
KÀ™, *Mystère®*, *“O”®*, *Zumanity™*,
The Beatles LOVE™, and numerous other
Las Vegas and Broadway productions

Constellation Experience Settings: A Creative Tool

The needs of theatrical and spectacle productions may include natural-sounding acoustics, but they often need to create fanciful environments that wouldn’t occur naturally in their performance spaces. Constellation Experience Settings put Constellation technology in the hands of sound designers whose imaginations are the creative force in forming the audience’s sonic experience.

Constellation Experience Settings let sound designers devise their own acoustical spaces and change them in real time, subtly or radically, under the control of a fully automated environment. Constellation Experience Settings can integrate seamlessly with existing Meyer Sound reinforcement systems and the Matrix3™ audio show control system to give sound designers a system that is fully unified and extraordinarily potent.



Constellation



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