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CASE STUDY - EDUCATION | QUEENSLAND UNIVERSITY OF TECHNOLOGY





QUT HIGHLIGHTS COMMITMENT TO CUTTING-EDGE FACILITIES WITH STATE-OF-THE-ART EDUCATION PRECINCT

Australia's iconic Queensland University of Technology (QUT) has been hailed as one of the most technologically advanced educational institutions in the world at the forefront of innovative teaching and learning.

And this acclaim is further consolidated with the opening of the state-of-the-art \$94.4 million Education Precinct that features a cutting-edge sound system from Bose Professional, employing its revolutionary EdgeMax series of in-ceiling speakers.

Entirely funded by the QUT as part of its strong commitment to teacher education, the Education Precinct is connected with the QUT Library and HiQ — the university's innovative student service center — and provides contemporary flexible and technology-equipped teaching spaces.

Management asserts that the facilities have been purpose-designed and reflect QUT's commitment to applying technology and immersive digital environments in teaching, research and engagement.

SELECTING AN AUDIO SOLUTION THAT MATCHES THE EDUCATION PRECINCT'S IMMERSIVE ENVIRONMENT

Detailing the Precinct's ultra-modern teaching spaces, QUT Executive Dean of Education, Professor Carol Nicoll PSM shares, "Our flexible formal and informal learning spaces are designed to foster collaborative peer-to-peer learning and can be configured for face-to-face and online learning. We're preparing and equipping teachers to thrive in a rapidly changing digital world, to be able to incorporate technologies and innovation into their teaching so they can inspire students and provide the best possible learning outcomes."

The Precinct is equipped with state-of-the-art audiovisual equipment and a wide range of technologies to encourage creative and collaborative learning, as well as provide lecturers the technology to develop pre-lecture videoed information for students. The precinct's centerpiece is the Sphere — a five-meter diameter LED globe suspended over two floors complemented by a 4.8-meter wide interactive digital wall screen, both of which are exceptional learning and teaching tools that come with an updated menu of innovative and interactive content. The Sphere is the only one of its type in the world with 3mm LED 4K resolution, which allows it to operate in full daylight.



And to complement the immersive nature of the visual content of the Sphere program, the university required an audio reinforcement solution that offered an equally captivating and engaging soundscape.

QUT Visualization and eResearch Manager, Gavin Winter, explains, “When we looked at an audio solution for the Sphere and the surrounding area, we knew it had to complement the immersive theme of the Sphere program. Concealment and superior sound were key requirements, but also given Sphere’s adjacency to other learning, research and meeting spaces, a great degree of sound directivity had to be maintained.”

QUT was aware of the Bose Professional commitment to a superior audio experience — regardless of the location — so it was a natural next step to work directly with Bose Professional. Through collaborative efforts the team agreed the EdgeMax series loudspeakers were the ideal solution.

EDGEMAX DELIVERS POWERFUL RESULTS FOR QUT

Pro AV Solutions QLD took the lead in commissioning the sound system design and installation at the Education Precinct. After an extensive analysis of the venue, a total of 12 units of the EdgeMax EM180 in-ceiling loudspeakers were strategically installed across the space to deliver an aurally immersive atmosphere.

“The brief we discussed with the management at QUT was about creating an immersive sound experience at the Education Precinct. Fortunately for us, Bose Professional’s EdgeMax solution – with its sleek flush-mount ceiling speaker technology – fit perfectly,” Shannan Brooksby of

Pro AV Solutions QLD shared. “The EdgeMax solution is capable of delivering uniform sound pressure level from the front-of-house up to a distance of almost six meters — which is quite amazing. This allowed us to place 12 speakers in strategic positions to create an incredibly immersive sound experience that’s uniform across the intended space.”

“The Bose Professional team were very forthcoming with modelling assistance, and after computing all the details of our surface finishes, we had a very good model of the space and it was clear that the EdgeMax loudspeakers were the way to go.”

- Gavin Winter

QUT Visualization and eResearch Manager

THE SPHERE IS READY TO ELEVATE LEARNING FOR YEARS TO COME

Complementing the performance of the system, Brooksby continues to explain, “We were pleasantly surprised when we put the system through tests here at the Sphere. It was well within its limits when we simulated what we call a ‘nightclub level audio’, while maintaining high quality sound delivery. It performed remarkably well.”

Management at QUT agree with Brooksby’s assessment of the EdgeMax system at the Education Precinct, with Winter sharing that the “space sounds absolutely brilliant”.



The expertise and experience of Pro AV Solutions QLD coupled with Bose Professional's technological prowess has resulted in several aurally astute projects across the region, and the Education Precinct at QUT is no different.

Brooksby affirms, "Bose Professional is great to work with and the EdgeMax loudspeakers are a very unique technology. And we're quite happy to leverage it across various projects." ■



SYSTEM COMPONENTS

EdgeMax EM180 loudspeaker

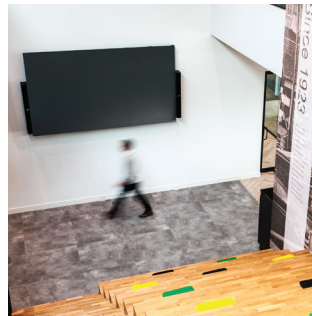
EdgeMax EM180

Bose Professional EdgeMax in-ceiling premium loudspeakers feature proprietary PhaseGuide technology with high-frequency compression drivers to create a new category that combines the room-filling coverage patterns typical of larger surface-mount speakers with the architect-preferred aesthetics of in-ceiling models. Designed to mount near wall-ceiling boundaries, EdgeMax loudspeakers provide improved audio quality and coverage, while reducing the number of required units, compared to conventional dome-tweeter ceiling speakers.

PARTNER: **PRO AV SOLUTIONS QLD**



With more than 30 years of audiovisual experience, a team of over 200 professionals and eight offices around the country, Pro AV Solutions delivers exceptional experiences at every point in the client relationship — from project inception through to design, delivery, as well as on-going service and support.



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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