

GENELEC®

CASE STUDY

Classical future

SEOUL ARTS CENTER
ADDS IMMERSIVE AUDIO
RECORDING CAPABILITIES
WITH GENELEC





FLEXIBILITY REQUIREMENTS MAKE GLM CALIBRATION SOFTWARE CRITICAL TO NEW MONITORING SETUP



As the home to Korea's finest classical concert hall, the [Seoul Arts Center](#) likes to be at the forefront of performance technology. The latest example of this has involved the incorporation of immersive audio capabilities into the renowned venue. The goal was to be able to record the top-class classical performances that take place at the venue and create audio content that would meet the

requirements of modern broadcast standards – as well as prepare the venue for expected future requirements.

“We have created an immersive audio production environment for the concert hall that allows us to record various top-class classical performances and create immersive audio content – and to be ready for UHD broadcast standards,” explains Wave Kim, Seoul Arts Center’s Sound Engineer.

” GENELEC PROVED TO BE THE PERFECT FIT FOR THIS PROJECT.

“Due to their seamless integration with our sound production and monitoring system, and a redundant arrangement for swift analogue-to-digital switching, Genelec proved to be the perfect fit for this project.”

When determining the appropriate audio setup for the space, the Seoul Arts Center opted for a 5.1.4 immersive system. This choice was driven by the need to consider the control booth's workflow and space utilisation, as it accommodates multiple production teams. “The 5.1.4 system was ideal because the extra surround speakers of a 7.1.4

system would have interfered with the movement of people entering and leaving the booth, as well as with the video production infrastructure,” explains Kim.

With the design decided, Seoul Arts Center worked with local Genelec partner [Sama Sound](#) to select the right Smart Active Monitors to meet the requirements. The L-C-R and surround channels are catered for by [8341](#) three-way coaxial monitors, while [8330](#) two-way models are used for the height channels as they met the weight restrictions for installation above the concert hall



Wave Kim, Seoul Arts Center's Sound Engineer

” THE INSTANT MULTI-SPEAKER TUNING CAPABILITIES OF GLM PROVED INVALUABLE.

control booth. Low frequency extension is handled by a [7370](#) subwoofer.

Genelec's Smart Active Monitoring technology was able to be easily integrated with the concert hall's existing audio infrastructure, thanks to a combination of the digital I/O and the daisy chain connectivity that facilitated direct network connections.

One of the major challenges for the project came from the physical size of the control booth. "In the design stage we discovered that the roof of the

booth is lower than the proper height suggested for overhead speakers to be installed," recalls Kim. "Thus, it was challenging to choose suitable brackets and change the height and angle of the overhead speakers. However, thanks to various K&M stands and their compatibility with Genelec speakers we overcame the challenge quickly. In addition, it was not easy to fix and wire the overhead speakers due to the facility piping installed in the ceiling, but the high level of on-site technology and experience of Sama Sound enabled stable and clean construction."





The concert hall's control booth also required the flexibility to rearrange monitors and calibrate the system when changes were made to the sound or video system infrastructures. By using [GLM](#) software, the team could easily achieve consistent audio quality even after rearrangement of the monitors. "The instant and quick multi-speaker layout tuning capabilities of GLM proved invaluable during the installation of the immersive audio system and concurrent interior construction of the control booth," states Kim.

The Seoul Arts Center is thrilled with the results achieved through their partnership with Genelec and Sama Sound. The new system has delivered a flawless and detailed audio experience within the prestigious concert hall, enabling accurate monitoring of top-class performances without

any distortion. This perfectly fulfils the requirement for immersive live recording of classical concerts and content production that meets international immersive audio standards.

With the Genelec system in place, the Seoul Arts Center eagerly looks forward to creating and releasing world-class concert content that beautifully captures the venue's remarkable acoustics. Kim concludes: "We are truly delighted with our achievements, all thanks to Genelec. The seamless operation, well-balanced composition, and high-resolution mode have surpassed our expectations. We now have a monitoring solution that allows us to share the incredible performances from our world-class venue in a modern format that brings the full texture of the sound to a new audience."

THE KIT

- 5 x 8341A
- 4 x 8330A
- 1 x 7370A
- 2 x 8030A
- 1 x GLM Software

GENELEC OY OLIVITIE 5 | 74100 | IISALMI, FINLAND | TEL. +358 17 83881 | GENELEC@GENELEC.COM | WWW.GENELEC.COM