

GENELEC®

# CASE STUDY

**Preparing the  
production pathway**

GENELEC MONITORS  
ENABLE IMMERSIVE  
STUDENT LEARNING  
AT TECHNISCHE  
HOCHSCHULE LÜBECK







## **GLM SOFTWARE MERGES DOLBY ATMOS AND FULLDOME FORMATS IN UPGRADED TEACHING SPACE**





**T**echnische Hochschule Lübeck – University of Applied Sciences – offers practical studies in a variety of fields, with a portfolio of courses focused on hands-on audio production. The recording studio was put into operation in 2015, mixing tracks in stereo and 5.1 surround, but has recently been upgraded to provide object-based immersive film and music production as well, thanks to Genelec Smart Active Monitoring.

Ralf-Ingo Koch, Information Technology and Design lecturer for 20 years, always puts focus on supporting the students' career with the very latest production tools. "Today's full-service agencies need experts and generalists who know all production paths, possibilities and limits of the entire cross-media portfolio," says Koch. "That's why we train students comprehensively – from photography and print to 3D animation, web programming and film, to stereographic full-dome productions with



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immersive 3D sound.”

After scanning the market for studio monitors and testing various systems in recording studios, Genelec's [The Ones](#) three-way monitors were selected for the project primarily for their coaxial design, compact size and impressive sound. The studio now houses six workstations with Dolby Atmos Production Suite for mixing over headphones, plus one workstation with an AVID S6 console, Dolby Atmos Mastering Suite with RMU, and a Genelec monitoring system. This system comprises [S360s](#) in the LCR positions, [8351s](#) and [8341s](#) as surrounds and overheads, with [7380](#) subwoofers delivering low end support.

“The Ones models allow for very good sonic imaging even in more difficult seating locations, thanks to their wide dispersion pattern,” says Arne

Heyna, Lab Engineer at the university. “Genelec speakers have powerful performance, and we are thrilled with the sound!”

Additionally, [GLM software](#) played an important role in the new studio by efficiently configuring all the monitors. “There are only a few systems that can calibrate a sufficiently large number of monitors at the same time. We did not only plan for Dolby Atmos formats, but also equipped the studio with full-dome projects in mind, and here, GLM was very helpful in calibrating the different setups. This was a crucial point in choosing Genelec,” Koch explains.

“It’s very nice to make measurements and corrections easily and quickly without a lot of manual work,” Heyna adds. “We were surprised to see how well and easily this works with GLM,

Arne Heyna - Lab Engineer,  
Technische Hochschule Lübeck





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and by the possibilities there are for subsequent individual adjustments. It's also great to be able to save the calibration settings directly to the monitors, so they can wake up with the same calibration over and over again. This is definitely a welcome relief in an already technically complex work environment.”

While the project faced Covid-19-related delays during the renovation process, it finally turned out to provide everything the university team was looking for. To achieve this, the room's entire signal routing and monitoring had to be programmed and configured from stereo music production to 9.1.4 Dolby Atmos and 10.1.4+1 full dome mixes – including backwards compatibility with previous technology set-ups. “It was quite an elaborate process, but also a very exciting and instructive one,” Heyna recalls.

“Another challenge was familiarising ourselves with Dolby's technical and format-related specifications, since we wanted to implement as much as we could ourselves, to understand the whole background and context,” adds Koch. “We could have hired a planning office for that, of course, but instead we wanted to achieve as much as possible independently. So once again I designed the studio in advance, this time to scale in a 3D modelling software, for perfect speaker orientation.”

After only existing on paper for a long period, the new sound studio is now up and running, and the tech team is very happy with the Genelec system and seeing the students finally utilising the space. Heyna concludes: “Students' feedback has been great so far – everyone is really excited about the studio's new sound and look.”







## THE KIT

- 7 x 8351B
- 5 x 8341A
- 3 x S360A
- 2 x 7380A
- 1 x GLM Software

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