

TEATURE 029













GREAT HALL PA: MORE SOUND THINKING

The Great Hall's audio upgrade was undoubtedly the biggest ticket item of the upgrade and also one of the curliest. Among the challenges were: the hostile acoustics, the super-tight delivery timeframe, the budget and the uncertainty of structural loading capabilities.

A Martin Audio PA was selected, which in itself has an interesting back story. Indesign Technologies Director Peter Coman: "In the first instance, the client had a previous Martin Audio installation they were very happy with, and secondly, we trust the brand. Martin Audio provides a value-for-money solution, was able to offer a system that was fit for purpose, and it met our budget."

He continued: "On top of that, the entire system is digital, so being able to incorporate the Martin Audio Dante amplifiers (pictured) integrated perfectly into the rest of the system."

Finally, there was the question of availability, since there was an extremely short timeframe to deliver the project. "Martin Audio assured us it could meet the deadlines," said Coman, adding that it had the speakers specially manufactured and flown over in record time. "But the main driver was the support from TAG [Technical Audio Group]; they were always available to provide the technical expertise required to deliver this complex project, from design and commissioning with expert installation from Xcite AV."

The FOH PA consists of 14 x Martin WPM per side with 4 x MSX subs flown per side, while the



delay hangs comprise 10 x Martin WPM per side. as out fills to cover the outside front corners.

this." Unfortunately, the uni couldn't see past the to ensure the right balance was met. optics of the proposal and kiboshed the plan in favour of the smaller sub array we see today.

Amplifiers/FIR processing consists of 7 x Front fill consists of 6 x Martin CDD6 below the iKON IK81 and 2 x IK42. Due to the challenging front lip of the stage and a pair of Martin CDD6 acoustic space, every WPM and MSX enclosure is individually powered and processed. Ewan The flown hang of four subs aside wasn't the McDonald again: "Martin Audio allows you to team's first configuration choice. TAG's Ewan set 'hard avoid' areas where it will actively cancel McDonald explains: "The original plan was for a energy to those surfaces. This was really important custom tapered column array that would attempt given the huge reflector of a back wall and the lectern to match the throw of the main WPM arrays. As is position which could be directly under the arrays." the case with line arrays, the low frequencies fall off Once onsite, David Gilfillan (Gilfillan Soundwork) faster than the high frequencies so we needed to try carefully examined the real world results using a and get a tall line of spaced subwoofers to combat combination of critical listening and measurements