

Audio Upgrade at Inverness Free North Church

In 2022 Inverness Free North Church embarked on a complete technology update of their audio systems in the main sanctuary.

The existing PA System was no longer suitable with limited coverage for speech only. As the church moves forward with more musical and video content as well as letting the building to outside organisations, a replacement system was commissioned.

The system is now capable of producing high quality full range sound across every seat in the sanctuary. This not only benefits the church as they meet, but also the local community as the equipment has helped make the Free North Church a venue for many other events held in the city.

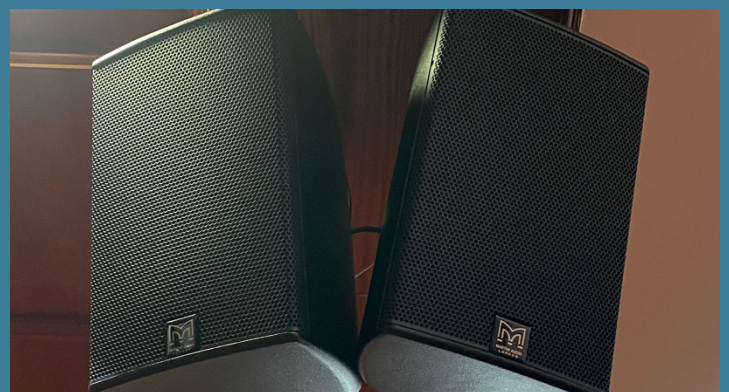
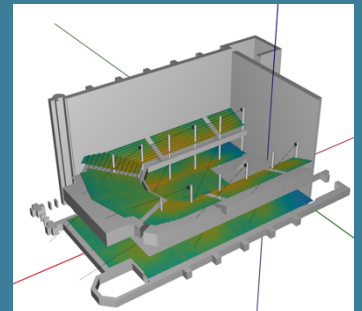
Working with Martin Audio the whole system was modelled to ensure that the coverage was as high as possible within the constraints of the building. The model was incredibly helpful to understand the dynamics of the building.

Throughout this project 3:16 AVI provided:

- Initial Consultation & Solution Design
- Installation
- Configuration
- Testing
- Handover Documentation
- Training
- Ongoing Support

The new system comprises of:

- Allen & Heath SQ5 digital mixer
- Allen & Heath AR2412 digital stage box
- 14x Martin Audio CDD8 speakers throughout the sanctuary
- 2x Martin Audio SX118 Subwoofers
- Martin Audio DX0.5 Speaker Management
- Power Amplifiers
- Upgraded cabling to individual stage boxes, including CAT6 to support the IEM's & upgraded XLR connectivity,
- Wireless control via smart apps, tablets and phones
- Power Management System
- Individual mixes for the induction loop amplifier and livestream
- Volunteer friendly digital mixer configuration



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"We asked, they delivered! From the outset the team at 316 AVI exceeded our expectations. They were reliable, flexible, accommodating and honest throughout our project. The Free North Church in Inverness is a large old building with an aging audio system which showed signs of deterioration and was no longer fit for purpose. When we approached 3:16 we listed our requirements and shared the vision we had for the use of the building with a new audio system.

From there they delivered a detailed quote which enabled us to visualise what the system would look like. The install was completed in a way to minimise disruption which allowed the church to continue to be used for various activities. The newly installed system is fantastic. The initial training and set-up has allowed all levels to get familiar and operate the system. The overall sound has dramatically improved in the building with audio now being clear in all areas of the sanctuary.

As we continue to get familiar with the capability of the equipment installed 3:16 have provided great after-care support and advice when required. We now have a system capable of meeting our needs, serving our community and while also giving us opportunities to add to the system in the future."

Stuart MacLeod, Inverness Free North Church

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The upgrade included an upgrade to a digital mixer, providing significant improvements over the previous setup. The ability to add additional microphones and instruments is provided via 4 stage boxes across the platform.

The digital mixer has also allowed improvements in the live-stream audio, a service which is still used by many congregants who are unable to attend in person.

The system has been designed with the volunteer team in mind, with mixer configuration being able to be saved and recalled as required along with shortcut buttons to allow tasks to be completed simply.

There is also a bespoke power management system allowing the whole system to be switched on and off in a controlled manner with a single button push.

The team at 3:16 completed the installation in stages to avoid disruption to the ongoing work of the church, we also spent time training the team and assisting with the first few services.



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