

Speech and live worship, Word and video projection

In designing a sound and projection system for a worship situation we have taken a wide range of considerations into account including the style of musical worship, but also the size and acoustics of a church building.

In all cases we have chosen equipment which we have used many times and we know to be a good fit for the situation but also of a reliable quality.

System Outline

The following system has been designed with a range of applications in mind which are outlined below.

Acoustics

- Any such hall should have a reasonable acoustic which for example would allow a conversation to be held without difficulty above the noise of others in the room

Hall size

- Up to 25m x 10m (ceiling height is not critical)

Room uses

- Spoken word from the platform for the sermon or a reading from the lectern
- Worship music for a 3-5 piece moderate worship band
- Inter cessionary prayers from the congregation
- CD music or video soundtrack
- Video projection of text, still images and short video clips (e.g. a tearfund clip)

Operators

- Members of the congregation who have some experience of mixing desk operation and sound fundamentals*

* b+h can provide DVD or onsite training depending on your needs

For more information:

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System Components

Loudspeakers

Our approach here is to provide a system capable of handling speech and light-weight levels of worship music. The main speakers are Martin Audio AQ8s and will be installed on the wall to either side and to the front of the platform. The speakers are compact units with a good power/weight ratio and which handle the mid-range and high frequencies required for speech and music with ease. The speakers come in a black, white or grey finish and custom colours can be quoted for.



Projector and Screen



The standard projector is a 5,000 lumen unit with 3 LCD panels and comes with a 5 year warranty of which 3 years is an onsite swap-out. The projector is fitted with an automatic scrolling filter for enhanced dust protection.

A standard system includes a mount and lens to fit the projector onto a rear wall or balcony, but a range of alternate mounts can be provided.

A standard package includes an electric 2.5m wide screen with remote control. Other options can be specified including a fixed frame screen.

Mixing Desk

The Yamaha 16 channel mixer is a versatile mixer with good sound quality and is used in many smaller churches. The 3 auxiliary channels will allow a separate mix to be provided for the loop, recording and worship group foldback. This desk is very compact and fits neatly in to the top of the console.



Equipment cabinet



The equipment would be housed in a single width console that houses the mixer on the top sloped surface and has a lockable lid. Other equipment is housed in the front of the unit. This furniture is designed for AV installations and includes ventilation and cable management as standard. The unit can be finished in a range of real wood veneers.

The console will be pre-configured with amplifier, loop amplifier, radio microphone receivers and CD player.

Microphones

The standard system is specified with one lapel radio microphone (e.g. for the service leader), and one handheld microphone for interviews or use within the congregation for corporate prayer or similar.

This system includes a lectern microphone as standard which provides the ideal way of amplifying a reader or speaker from your lectern.

The system includes 2 Shure SM58 vocal microphones, a DI box for use with a guitar or keyboard, a condenser microphone for acoustic instruments or choir. The package also includes six 5m XLR cables and 3 microphone stands.



Loop and Cabling

The system includes a loop system which can either be laid under carpet (if accessible) or more likely otherwise around a skirting board. An ambient microphone is also included as recommended by the DDA regulations to ensure that users do not feel isolated.

The system is specified with a 12+4 way multicore for ease of cabling from the control position to the platform. Microphone connections can either be directly to the stage box or via individual wall or floor boxes within the platform.