

Overview of the Sound System at St James Church North Cray

The Sound System now comprises of two combined systems. This is to optimise the quality of both the PA spoken word using Microphones on one system and recorded and live music on a second or auxiliary system. To deliver this combined system, two separate amplifiers are employed with separate sets of speakers installed on their own dedicated circuits. These outputs can be used separately or combined, to create the right balance in received sound.

All signals are fed through the mixing console that allows unlimited mixing of the two systems to either or both sets of speakers as appropriate. However fundamentally, the wall mounted column speakers will be driven by the microphones and the tower speakers by the music programme.

The Microphones work within the Channel 70 – free to use band. This allows for a maximum of four separate frequencies to be used, hence a maximum of four microphones may be used at any one time.

Currently there are two lapel microphones and one hand held/stand microphone with provision for a fourth microphone to be added if required.

The wireless receivers for the microphones have been mounted at high level and permanently wired through to the mixing console.

The mixing console, in addition to accepting the wireless microphone inputs, has a flexible level of inputs into a dedicated channel for recorded music. This includes an interface called the media station where playback of MP3 recordings via a memory stick, laptop USB and Bluetooth can be set up. The output from the tape/CD player is also routed through the music channel of the Mixing console.

Other inputs on the Mixing console may be used for musical instruments and wired microphones. The original Hearing Aid amplifier and loop system installed previously is fed directly from the main amplifier.

Layout of Mixing Console showing the Input and Output Channels



Layout showing control sliders



Microphone sliders

Microphone sliders control the output of sound (Volume) directly to the Amp and speakers – no other volume control is required.

Music level Slider

Music level (Volume) from all music sources controlled by slider 7/8

Boost level slider

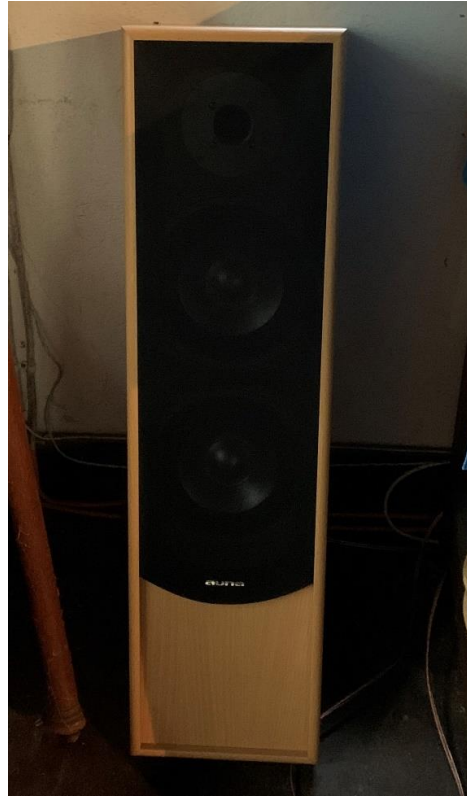
Music level (Volume) from all music sources boosted by Aux/Music Amp

Layout showing the mixing console and the two amplifiers on the shelf below.





One of the Bi-Directional Sets of the wall mounted column speakers



One of the Floor mounted Tower speakers



The three wireless receivers mounted at high level and wired directly to the Mixing Console

Line input to Music Channel – normally set up for the installed Tape/CD player

Button to select music channel source either: line input (CD player) or Media station Input.

Balance knob. Sets the variable balance between the two sets of speakers. Towards the left for column spks towards the right for tower spks. Centre is to both

7/8 slider controls the music level of source being used i.e. CD or MP3



Layout showing Music Controls

Media Station.
MP3 Inputs from USB and SD Card & Bluetooth.
Selection and Operating button controls with viewable screen.

Red Slider controls Output to the Aux/Music tower speakers.
Has no control over the column speakers