



CREATIVE at work

St Andrew's, Cheam

Creative Aesthetic Design

In 2009, Creative Audio-Visual Solutions were commissioned to install audio and visual systems within St Andrew's Church, Cheam, Surrey – a reflection of the quality of design and workmanship that CAVS possesses. The internal aesthetics of St Andrews Church required specialist attention to ensure the clean, open space was not hampered by unsightly equipment. The audio system was based on Electrovoice speakers and processing and in particular a favourite installation speaker, the ZX1i. Six ZX1i's in white were wall mounted within the main Church and via dual EV DC-One digital speaker controllers provide exceptional stereo sound with each pair delayed to reduce echo as sound travels down the length of the Church. The DC-One controllers also provide optimised audio outputs to the choir speakers, loop and dual active subwoofers. These subwoofers, the highly flexible Electrovoice SBa760's, vastly improve low frequency reproduction - adding drive and energy to live Worship and DVD audio. Electrovoice amplification was also used to match the speakers effectively and ensure long term reliable operation.



The clean design of EV Zx1i speakers and a custom folding projection screen match the interior aesthetics of St Andrews with sound and visual quality of the highest calibre.



Sanyo 6500 lumen projector and custom screen that folds back discreetly against the wall when not in use

The visual system consists of a Sanyo 6500 lumen projector with high contrast output for effective image projection in daylight conditions. A custom made folding bracket, mounted with a motorised 2.5m screen, allows the screen casing to hinge back parallel with the side wall when not in use. A Sony remote camera, with joystick controller, provides images for both projection and recording to DVD. Kramer hardware was used throughout for control and distribution of visual images. Active twisted pair transmitters and receivers were utilised, along with AV optimised cat5e cable, ensure image quality is at its highest. A Kramer RC8IR touch panel was specified to provide a central control point for all AV operation. Rather than use multiple remote controls, the 8-button touch panel controls the motorised screen and projector on/off functions with capability for a further projector and screen in the future. The main hub for the visual system features a Kramer VP-728 switching scaler to control and optimise inputs from PC (dual laptop inputs), DVD and the remote camera and also to synchronise image output to the projector and relay monitor displays.

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A custom console rack was designed and built to house all the main audio visual equipment. For audio control, the Allen & Heath GL2400 mixer was chosen – providing excellent flexibility for all live and recording requirements. With its clear layout and coloured coded controls, the GL2400 is also one of the easiest mixing desks to navigate in a live environment. The console also houses a Datavideo dual screen visual monitoring system for cueing and reviewing the remote camera and DVD player before committing the image to the main screen.

Sennheiser radio microphones and playback recording decks (for both DVD and CD recording) complete the equipment housed within the bespoke console. All main amplification, the induction loop amplifier and digital sound system controllers are housed in a rear room within a separate rack.



Main rack housing 6 channels of amplification for the ZX1is, 100v line amplifier for choir system and DC-One digital speaker processors



Wall mounted Sony EVI-D70 remote camera for clear projection and recording of images with preset or full PTZ joystick control



A compact monitoring system installed within the choir stalls provides clear and locally adjustable sound from a single volume control. Powered via 100v line technology allows further speakers to be added in the future.



All visual connectivity utilises Kramer Twisted-pair (cat5e) distribution. Three active Kramer WP-110/120 plates on the platform are installed for laptop and roaming camera input with a monitor output for a TFT/LCD display.



This picture shows the projection system when not in use. Creative Digital Solutions design and fabricate brackets and mounting solutions unique for each requirement, ensuring the latest technology suits even the most demanding aesthetics.

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