

Installation of the Month

The new system had to be able to handle lively services

UNITED KINGDOM

Fit for a king

A multi-use new-build church needed a similarly flexible AV set-up to ensure consistent, high-quality coverage throughout the venue, writes **Tom Bradbury**

In 2010 – after a search of over 30 years for an affordable location – the local parish chose to construct a new King's Church, Amersham on a site that had become available. Completed in February 2014, the £4 million church now provides counselling and youth rooms as well as offices. Its 1,500sqm space also boasts a main auditorium for 600 people where services, christenings, weddings and other church events can take place.

The task of specifying and installing the audiovisual

system was entrusted to Creative Audio-Visual Solutions (CAVS). "The parish contacted us when they were purchasing the land for their new site," recalls Rob Alvis, CAVS's sales director. The biggest challenge, Alvis remembers, was the main auditorium.

"The church worship is quite lively with very modern dynamic music. They therefore wanted a system that not only delivers high speech intelligibility but also great full-range acoustic coverage – while at the same time not compromising the church's budget."

The system also had to be capable of effective audio playback when showing films. Visually, a full HD set-up was requested.

Consistent coverage

To provide powerful and even coverage in the main auditorium, CAVS opted for an Electro-Voice system based on loudspeakers from the EV Innovation series. Two Electro-Voice EVA line arrays are flown away from the walls and above the front platform. Based on simulations of different locations and dispersion angles, the ideal speakers

for the task proved to be three EVA 2082S elements per side. Each of the installed EVA 2082/1220 and EVA 2082/126 speakers contains dual 8in woofers and four 1.25in titanium diaphragm HF drivers with a dispersion angle of 120° x 20° and 120° x 6° respectively. Two additional EVF front-loaded 12in speakers provide coverage to the sides; two TourX 2181 dual 18in subwoofers assume responsibility for the low frequencies, with EVID FM6.2 flush-mounted in-wall speakers rounding off the

Installed

Video

- Christie LX700 full HD projectors
- Sony EVID H100 HD remote cameras
- Datavideo SE2000 HD vision mixer
- Datavideo HDR70HD hard disk visual recorder
- TV One 8000 series switching scaler
- LG LA Series Smart LED displays
- Eiki WB200 projectors
- SMART interactive whiteboard
- SMART UF70 projector

Lighting

- Zero 88 Jester lighting desk

Audio

- EV EVA 2082S, EVA 2082/1220 and EVA 2082/126 array modules
- EV TourX 2181 dual 18in subwoofers
- EV EVID FM6.2 flush-mounted in-wall speakers
- EV EVID6.2 ceiling speakers
- JBL Control Contractor speakers
- EV NetMax N8000 system controller
- EV CPS 4.5, CPS 2.12 and PA1250T amplifiers
- EV PA2450I amplifiers
- Australian Monitor AMC mixer amplifiers
- Yamaha LS9 digital mixer
- Aviom in-ear monitoring system

About the installer



- CAVS supplies and installs AV, sound and IT systems into churches, schools, corporate venues and homes
- The company specialises in new-build projects where integrated audio, visual, network and lighting systems are required
- Other clients include St Andrews, Walton-on-Thames; Eden Church, Edenbridge; and Reigate Park Church



EVA loudspeakers from Electro-Voice meet the dual challenge of high speech intelligibility and even coverage

loudspeaker installation into the foyer area.

Alvis explains: "The EVFs are phenomenal in terms of output, projection and power. They are cost-effective, easy to install and have a great sound quality. For me, they are the standout part of the Electro-Voice installation."

The system is driven by two CPS 4.5, one CPS 2.12 and one PA1250T amplifier and controlled by a NetMax N8000 system controller via IRIS-Net software.

Visual service

In the main auditorium two Christie projectors provide centrepiece visual content overhead for the congregation. Sources, picture-in-picture content and other visual data are handled by a TV One 8000 Series switching scaler.

The room's lighting system comprises 16 1,000W stage lights on a central lighting bar with control from a Zero 88 Jester desk.

King's Church also wanted to be able to relay information

into every room that has an AV capability, as well as allowing these spaces to be used independently for meetings, rehearsals and events.


CAVS networked the whole building with Cat6 for the internet/computer network and the telephone system, applying 100 RJ45 points into patch panels.

This enables visual solutions to run throughout the building. In the foyer and café area, 55in LG LA Series Smart LED displays relay video streams from the service, and also carry Freeview HD TV channels. A mixture of

70in, 50in and 32in LA Series displays deliver content to a total of 10 other ancillary rooms, including a crèche, youth room and office.

Elsewhere, the two main meeting rooms are equipped with smaller projection systems courtesy of Eiki WB200 projectors.

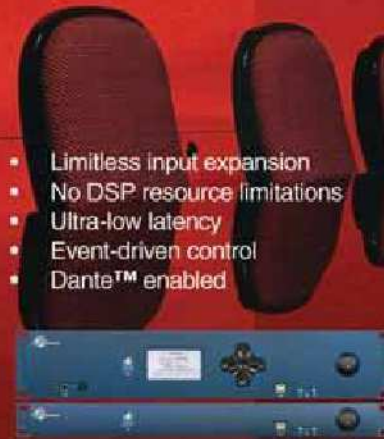
The response from the parish team and the congregation has been enthusiastic, says Alvis. King's Church Amersham project leader Mike Peters comments: "Despite being in town planning for over 34 years, I have never been involved in anything that has

produced the quality we have now at King's Church Amersham." 



www.aviom.com
www.australianmonitor.com.au
www.cavsolutions.co.uk
www.christieemea.com
www.datavideo.info
www.eiki.com
www.electrovoice.com
www.harman.com
www.lg.com
http://pro.sony.eu
www.samsung.com
www.smarttech.com
www.tvone.com
www.yamahaproaudio.com
www.zero88.com

THE INTELLIGENT AUDIO SOLUTION.



- Limitless input expansion
- No DSP resource limitations
- Ultra-low latency
- Event-driven control
- Dante™ enabled

ASPEN from Lectrosonics represents the state of the art in DSP processors for automated audio systems. The addition of Dante Brooklyn II from Audinate® makes the SPNDNT one of the most powerful, flexible and affordable ethernet audio links available today.

Advanced algorithms, unlimited DSP processing power, unparalleled value and now Dante capability make ASPEN a must for your next installation.



Made in the USA by a Bunch of Fanatics.



<< Scan here for the white paper on Dante and AVB

www.lectrosonics.com/europe

or +33 (0) 785 58 37 35