











Audio - Visual - Streaming - Networking - Lighting

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#### **Creative Audio-Visual Solutions**

**CAVS** provide a unique approach to audio-visual systems. Providing the utmost dedication to all size and type of installation. Dedicated to ensuring the continual growth and development of all aspects of communication within the modern Church. We endeavour to build a truly personable relationship from our first discussions right through to final system optimisation. Ongoing nationwide service and support to the highest standards.



### What makes us different?

We are a dedicated Church installation company with vast nationwide experience of all styles of building from grade 1 to new builds – establishing a reputation for the highest sales and aftersales support within our industry. Nationwide service and support to the highest standards



We recommend only the most reliable and cost-effective equipment from select specialist manufacturers – avoiding cheap brands which do not reach our standards of quality and reliability. We do not oversell or recommend products which do not provide the added benefit their price suggests. We appreciate that Churches need to be fully accountable for all expenditure and we share that ethos



We genuinely understand the Church marketplace, how Churches work and their expectations. This is supported by our fast and efficient service and onsite support team – endeavouring to provide loan or replacement equipment during a failure and ensuring swift repairs so that the Church is never without a working system





"We are so pleased with the system and how it works. The congregation have commented on the sharpness and quality of the image, especially the camera. When the screens are closed they are unobtrusive, the cable hidden and you would hardly know the system had been installed. We would like to thank you for your flexible attitude and going the extra mile for us. We were so impressed by the teams' professionalism, their safety management and their general approach to keeping the Church tidy."

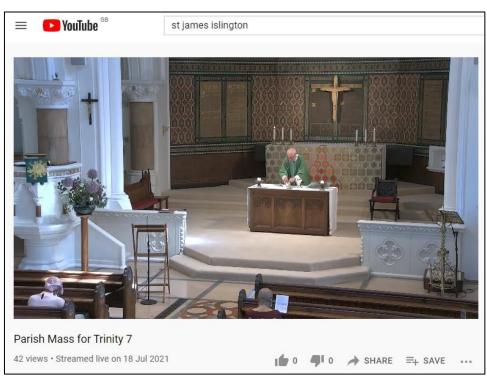
Holy Trinity Church, Rudgwick

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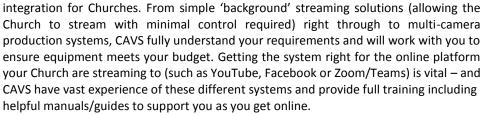
## **Streaming Solutions**



















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**Creative Audio-Visual Solutions** 



### St Peter & St Paul Buckingham

## **Multi-Screen and Audio System**







he new system at the parish church of St Peter & St Paul, Buckingham, marries a multi-screen visual system - comprising of six Toshiba TD-E commercial displays and an Electrovoice concert quality sound reinforcement system. The visual system is driven via a Kramer VP-774 switching-scaler and full 1080P HD infrastructure for stunning visuals. A fixed Sony full HD remote camera allows images to be shown on the displays as well as streamed online and recorded via a Datavideo NVS-25 streaming server. The audio system features nine Electrovoice ZX1i speakers, mounted utilising custom designed pillar clamps. These are supplemented with dual EV ZX subwoofers and driven via a digital EV Netmax speaker and matching multi-channel amplification. A Soundcraft Si Performer 2 – 66 input digital mixing console with DMX lighting & iPad wireless control provides excellent control and versatility for all services.







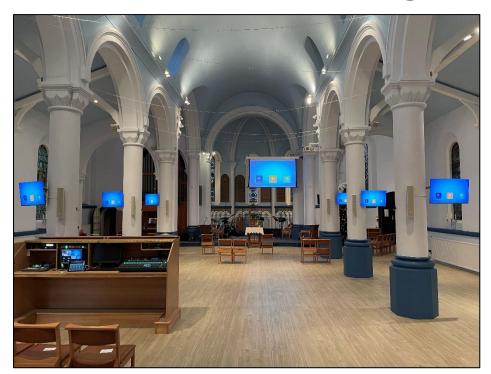
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### Holy Trinity Church Frogmore, St Albans

## **Re-Ordering Project**



Holy Trinity Church recently commissioned CAVS for their complete audio-visual upgrade as part of a major re-ordering project. The visual system features eight 32" LED displays on flexible cantilever brackets – allowing the screens to be moved into the centre of the Church for 'in the round' services. A Roland V8HD production mixer controls both the inhouse displays and online streaming mix through a Datavideo NVS-33 encoding server. The audio system features JBL CBT array column speakers and subwoofers to provide full range reproduction for live Worship and music playback whilst maintaining the Church's aesthetics. A Soundcraft SI Impact digital mixer with two remote stageboxes provides control and connectivity for the band and service microphones. A bespoke console was specifically designed to maximise tactile control for up to three operators and is fully lockable for equipment security.



The Soundcraft Si Impact has connectivity for two fully useable digital stageboxes (each with 16 inputs and 8 outputs) for musician and event connection.



The 32" LED displays were installed utilising 180 degree cantilever Z-brackets to allow them to be used effectively for 'in the round' services.



The Roland V-8HD production mixer provides a fully integrated streaming mix along with an independent output for in house display. The Sony IP joystick controls and PTZ motorised camera.



One of the two compact Electrovoice active 12" subwoofers for full range music and video amplification.

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### **Creative Audio-Visual Solutions**



### **Battersea City Mission**

## **Church Redevelopment**



A bespoke console houses all audio and visual hardware with a folding laptop shelf for additional surface space. Bluray/DVD and CD/MP3/Bluetooth playback systems are included along with a preview monitor to allow any image to be reviewed before committing to the projection system. This is via a dual output switching-scaler for streamlined control and versatility.

Dual subwoofers provide true full-range sound quality with a portable digital stagbox (providing 16 mic/line inputs and monitor outputs) at three locations via simple Cat6 connection points.

Auxiliary rooms feature flexible trolley-mounted LED displays and a separate Chapel audio-system for service relay and independent usage.





The Sanctuary at the Battersea City Mission demonstrates exceptionally clean and focussed design through the complete refurbishment of the Church and careful audio-visual specification.

Dual fixed frame screens and 6,500 lumen projectors provide excellent image quality in daylight conditions with a full-range bi-amplified Electrovoice ZX-series audio system for effective live Worship amplification and speech reinforcement.

A Soundcraft SI-Expression digital mixing console with portable digital stagebox and iPAD wireless control ensures complete audio system flexibility. A Kramer switching-scaler based visual set-up and HDBaseT digital infrastructure provides excellent visual capability and system reliability within the Sanctuary and through to the auxiliary rooms within the Church. Audio-Visual recording and streaming is via a CAVS wireless infrastructure and Datavideo streaming server to allow services to be viewed on the Church YouTube page.



Platform facing 65" LG LED display and Sony high definition motorised PTZ camera for projection, recording and streaming



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**Dedicated Church Technology Solutions** 

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#### **Creative Audio-Visual Solutions**



### Salvation Army, Staines

## Audio - Visual - Lighting



The Salvation Army, Staines recently commissioned CAVS to completely update their ageing audio-visual system. A new console was made and houses the latest digital mixing console, HD visual mixer/missing system and a new LED lighting desk. Three high definition cameras, dual 7,500 lumen projectors with flexible HDMi connectivity provide excellent image quality with relay to auxiliary rooms and recording/online streaming capability. The lighting system consists of LED RGB wash and profile spots to ensure effective illumination of the platform. The audio system was improved with a digital audio processor and subwoofers for full range band capability. The system extends to the hall and foyer where signage and independent AV systems are installed.















Creative Audio-Visual Solutions Specialist Church AV Integrator

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**Creative Audio-Visual Solutions** 



### St Helen's Church, Wheathampstead

## **Aesthetic Audio-Visual Integration**

Creative were chosen to provide the new audio-visual, streaming and sound upgrades at St Helens Church. Commercial grade LED displays were deemed more flexible projection - providing high quality visuals from song words to video. The system is driven by a Kramer dual output switching-scaler to allow different images on the main screens with a Roland V8-HD production and streaming mixer for creative content both in-house and online. Multiple PTZ motorised cameras provide a clear and engaging online stream along with an audio upgrade which included additional speakers and a Soundcraft Si Impact digital mixing console with iPAD control.





Additional LED displays and speaker were installed within the side transepts and Chancel for additional coverage. Local inputs allow the display to be used for independent meetings in each area. The speakers are controlled via dedicated mix outputs on the Soundcraft mixer – to maximise audio quality in every area of the Church.







A bespoke console was designed for St Helens – providing a tactile operating positon for two people. The Soundcraft Si Impact mixer is one of the most approachable and flexible digital mixer for Churches with wireless iPAD control. The visual position features a preview display and tactile Kramer switcher for complete visual control.

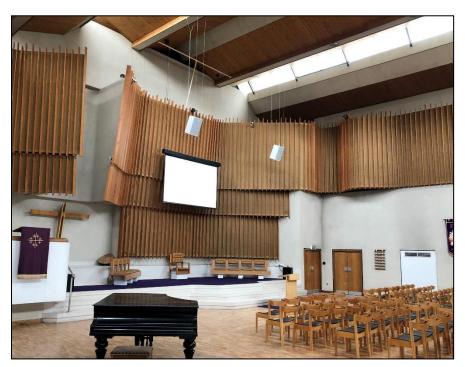
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#### **Creative Audio-Visual Solutions**



### Broadmead Baptist Church, Bristol

### **Audio-Visual Excellence**



Athough the 70's décor might imply otherwise, Broadmead Baptist Church is one of the oldest Baptist Churches within the UK. To ensure concert quality sound, CAVS designed the system around Electrovoice EVC flown speakers and a discreetly hidden 15" active subwoofer. A Soundcraft Si Impact digital mixer and accompanying remote stagebox provides flexible control for service microphones and the Worship band. A Sapphire smart move winched projection screen lowers discreetly from the ceiling with a Christie 7,000 lumen laser high- definition projector ensuring clear visuals in daylight conditions. A 65" balcony confidence display allows the band and service leaders to view projected images without needing to turn to the main screen. A bespoke console houses all equipment including new Sennheiser radio microphones with charging stations, a Denon media player and recorder along with the network/Wi-Fi infrastructure.



Creative Audio-Visual Solutions designed the ideal system for the building and budget – ensuring the highest audio and visual quality, married with flexible, tactile and straightforward control.

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**Creative Audio-Visual Solutions** 



### Kings Church, Amersham

### **New Build Project**



The main Sanctuary at Kings Church, Amersham – high definition audio and video production help to create the ultimate Worship space

Each of the two Electrovoice EVA line arrays, consisting of three elements per side (containing dual 8" woofers and four 1.25" titanium compression drivers) behave like a single speaker, ensuring seamless audio coverage from front to back. Additional Electrovoice EVF front loaded 12" speakers provide coverage to the sides with dual 18" subwoofers for low frequencies. Networked EV Netmax sound processors and multichannel EV amps ensure reliability and maximised sound quality throughout. The main amplifier rack and console are switched on and off remotely via a custom mains relay system – ensuring the system is easy to start-up from the touch of a button.

he new building project at Kings Church, Amersham demonstrates the pinnacle of audio, visual, lighting and technology solutions within the modern Church. Within the main auditorium an extensive Electrovoice EVA line array speaker system was installed along with dual Christie full HD projectors to ensure the highest quality audio and visual standards. The system was further supplemented with full HD remote cameras, a quad engine switching-scaler and HD vision mixer to allow total multiscreen control with flexible connectivity on the platform for audio and visual connectivity. In addition a 6m trilite lighting bar supports 16 flood and spot lanterns to provide an impressive focal point to the front of the Church with a memory lighting console for live control.



Electrovoice EVA line array and Christie 7000 lumen full HD projector



The auditorium also has an effective integrated stage lighting system for highlighting the platform which also works together with the LED ceiling cloud lights. 16 lanterns featuring a mix of coloured spot and floods and controlled via a Zero88 programmable console, allows an array of moods and focal points for musicians and service leaders.



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#### **Creative Audio-Visual Solutions**



The reception are and café feature relay and independent sound and visual systems allowing locations to be used for different requirements throughout the week including signage, service overflow and meetings

Throughout the building, audio and visual systems allow each room or location to be used in a number of ways. Two main meeting rooms feature projectors, screens and dedicated sound systems with a further nine rooms with LED displays. All auxiliary systems allow a feed from the auditorium for overflow or relay purposes along with independent use for local meetings. Freeview HD TV is also distributed throughout.

A Smart interactive whiteboard and ultra-short throw projector was installed for training in the larger meeting room for further flexibility.



Live Sunday morning Worship at Kings Church Amersham

From initial drawings right through to final system commissioning, CAVS provide the complete new building solution. Covering all communication technologies including audio, visual, IT, telephone and TV infrastructures – CAVS have the expertise to ensure the highest level of design, installation and aftersales support to the modern Church. For an initial consultation please contact us on

**0844 5678 065** or email <a href="mailto:sales@CAVSolutions.co.uk">sales@CAVSolutions.co.uk</a>

References are available on request.





Part of the Church's HD visual and network infrastructure. Over 14 kilometres of cabling installed throughout the building allow versatility for all audio, visual and networking requirements



One of the eight platform floor boxes providing discreet connectivity for musicians, microphones, and visual sources



Touch panels to remotely power-up amp racks, console and for room lighting



### Creative Audio-Visual Solutions

Dedicated New-Build Technology

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### **Creative Audio-Visual Solutions**



### St Peter Ad Vincula, Wisborough Green

## **Discreet Audio & Visual System**



Cavs were commissioned to install the latest technology into St Peter's Church, a 12th century building where aesthetics were are the forefront of the system's design. A JBL CBT array column speaker was discreetly installed within the ceiling beams with additional speakers and subwoofer providing complete audio coverage and full range capability. A Soundcraft digital mixer with wireless iPAD control allows the system to sit in the vestry with full control from inside the main Church. A long-throw Christie 7,000 lumen projector and Sapphire smart move projection screen ensure the system can be almost completely hidden away when not in use. Sennheiser radio microphones, Denon media players and recording systems including Bluetooth wireless connectivity ensure the highest audio and visual quality throughout. The system truly works with the décor of the building - providing a 21st century audiovisual solution whilst respecting the Church's heritage.









The JBL CBT array column speaker with extended bass module, discreet hidden within the high level Church beams. The Christie long throw projector sits similarly disguised at the other end of the building. Full network/WiFi and camera infrastructure provides the means for online streaming and wireless system control.

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**Creative Audio-Visual Solutions** 



### North Cheam Baptist Church

### **Audio-Visual Excellence**



The system at North Cheam Baptist Church features dual Eiki projectors and fixed frame screens along with a 65" platform monitor above the console. Electrovoice ZX-series speakers and subwoofer provide full range sound quality, along a Soundcraft Si Expression digital mixer with over 40 inputs. A Sony HD remote camera provides images for projection, recording and online streaming. A Kramer VP-774 switching-scaler provides numerous HDMi, VGA and video inputs for Sanctuary visual projection with a Kramer HDMi Matrix to feed two independent foyer displays and crèche/meeting room where additional projector/display are installed.

A bespoke console was designed specifically for the Sanctuary décor and houses all equipment including a Datavideo DVD/camera cueing display, Yamaha bluray player, MP3 recorder, Sennheiser radio microphones, AV-optimised PC and Kramer RC9ir touch panel to turn on all equipment from one location.

The bespoke console shown below provides a tactile and well-designed environment for AV operators. The Soundcraft Si Expression digital mixer can be seen which includes a digital 16/8 stagebox and iPAD wireless control











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**Creative Audio-Visual Solutions** 



### St James' Parish Church, Trowbridge

### **Aesthetic Technology**















Creative Audio-Visual Solutions

Bespoke AV Solutions

The installation by CAVS at St James' Trowbridge is a perfect example of the effective but sympathetic integration of modern AV technology into a traditional parish Church. JBL beam array column speakers with discreet subwoofers blend effortlessly to provide high quality sound from speech to full range band amplification. Three smart winch projection screens and 7,500/5,000 lumen projectors ensure the highest image quality throughout the congregation whilst providing the ability to hide out of sight when not in use. All operating equipment is housed within a bespoke console – utilising old pews to blend into the Church's décor. An HD motorised camera with recording and streaming capability was also installed to capture services/events and to provide long term system development potential.

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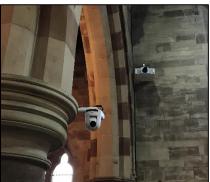


### Trinity Church, Shrewsbury

### **Multimedia Excellence**



Trinity Church, Shrewsbury commissioned CAVS to provide a discreet visual system for complete congregation coverage with the ability to hide all screens for weddings and funerals. A system featuring three smart winched projection screens achieves this and utilising 7,500 and 5,000 lumen projectors image quality is at its highest across all sources. A dual switching-scaler allows any input (such as Bluray/DVD or camera) to be previewed before committing images to the main screens. A wireless collaboration system allows any devices from phone to laptop to be connected wireless to the system. Multiple 'comfort monitors' ensure musicians and service leaders can view projected images without needing to turn around. Camera images (with embedded audio from the sound system) are distributed to the foyer and crèche for service relay - with local connections for independent room AV use.



A Christie LW-751i 7,500 lumen projector for the main central screen and Sony SRG-300HW full HD motorised PTZ camera for projection, recording and online streaming.



A Dias comfort screen - allows service leaders and musicians to view all images.



PTZ camera joystick and 10" cue/preview monitor — allows all images to be setup before committing them to the main projection screens.



High definition camera images with audio is relayed to the crèche LED monitor. A local HDMi input allows the display to be utilised for independent meetings.

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#### **Creative Audio-Visual Solutions**



### **Woking URC**

### **Audio & Visual Excellence**

Creative Audio-Visual Solutions were commissioned by Woking URC to provide a modern visual, lighting and streaming system for the highest quality in-house and online services. Multiple 98" and 55" LED displays provide clear coverage throughout the main Church - driven via a dual output switching-scaler (for selectable left/right images) with a Roland V8-HD production mixer for creative media and online streaming. Two PTZ cameras ensure an engaging and creative streamed service with the ability to put close-ups on the displays for baptisms and platform activities to be seen by the congregation. The audio system was improved with additional speakers and digital processing. A full stage lighting system with touch-screen computer control allows the building to be illuminated for any type of service or event.







The console equipment features a Kramer VP-778 dual switching-scaler, the Roland V8-HD production mixer with preview LED display, the Datavideo NVS-33 streaming server, Sony PTZ camera joystick and a touchscreen Avolites lighting computer.

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#### **Creative Audio-Visual Solutions**



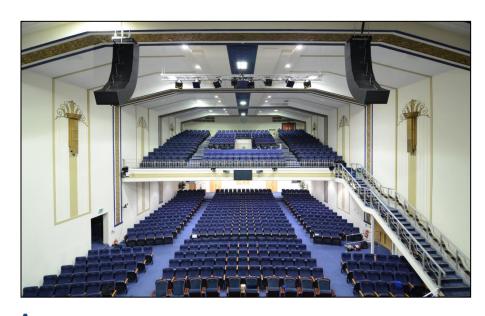
### Freedom Centre International, London

### **Creative Freedom**

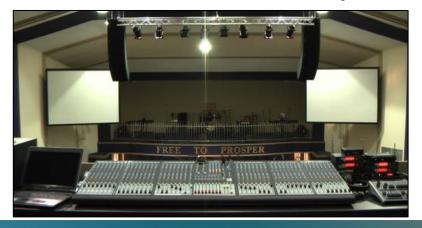
Freedom Centre International's new Worship centre was developed from an old bingo hall in Welling, London which hadn't been used for over 20 years. It has been transformed into a modern and vibrant Church centre for large events and services for the Church congregation and for worldwide audiences online. CAVS began by installing an extensive cabling infrastructure for all present and future audio, video, lighting and networking requirements throughout the centre.

The latest Electrovoice EVA line array speaker system was specified to provide seamless sound from the front of the auditorium to the rear of the balcony – driven and controlled via a Netmax processor and remote monitored amplifiers to allow real-time temperature, impedance and performance checks within the Church or via remote access from Creative's office.

The visual system consists of dual long throw Eiki 7000 lumen projectors, multiple LCD and plasma relay screens and a Kramer switching scaler and Cat5e distribution hardware to provide high quality images from PC, cameras and video sources.



Audio and visual feeds are present in all locations around the centre – providing service and live links to offices, foyer, lobby and relay halls. Three 60" plasma screens are installed within the main auditorium to ensure the front rows of seating and service leaders/musicians on the platform can view words and pictures at all times. A 16 lantern DMX-controlled lighting system was also designed by Creative Audio-Visual Solutions to allow a wide variety of 'on-stage' moods to support Worship ensuring an effective focus to the platform for musicians, choir and service leaders.





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**Creative Audio-Visual Solutions** 



### Frampton Park Baptist Church, Hackney

## **New Building Project**



Frampton Park Baptist Church was completed in 2015 and features complete audio and visual solutions throughout the building. Within the main Sanctuary, a system was needed to provide full HD visual and concert quality sound whilst allowing the integration of a portable control rack with dual connection points. Two full HD Christie projectors provide excellent image quality along with additional side LED displays - driven via a Kramer VP-774 switching-scaler and touch panel controller. The sound system is comprised of EVF and EVU series Electrovoice speakers and amplification. Recessed floor boxes within the platform provide local XLR connectivity and HDMi monitor outputs for musicians to view projected images without needing to turn to the main screens. LED stage lighting was also installed to allow illumination of the platform for the benefit of the congregation and the full HD Sony remote camera (projection, recording and streaming).





System pictures showing an Electrovoice EVF12 speaker and lighting system, flexible HDMi and audio connections, a Soundcraft Si Expression digital mixing console and the main hardware rack — containing Electrovoice audio amplifiers and Netmax 8000 speaker controller, Kramer HDMi infrastructure and platform audio-visual patch bays.





CAVS provide the complete new building solution from initial drawings and design, right through to installation, system optimisation, training and the highest level of service and support.

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### **CCT High Leigh Conference Centre**

## **Multi-Room Conference System**



CAVS were recently commissioned to replace all audiovisual systems within CCT's High Leigh conference centre in Hoddesden. Electrovoice speakers, amplification and processing have been used extensively to provide flexible and intelligible sound reproduction from speech to full range live music with Allen & Heath ZED series mixing consoles. Multiple Christie and Philips commercial displays have been installed, including dual 98" LED panels within the main Yewtree venue – driven via Kramer switchers. The Chapel is a multi-purpose conference and wedding venue with a flexible audio and visual system for use in all orientations including portable 65" LED display and full range Electrovoice performance sound system.





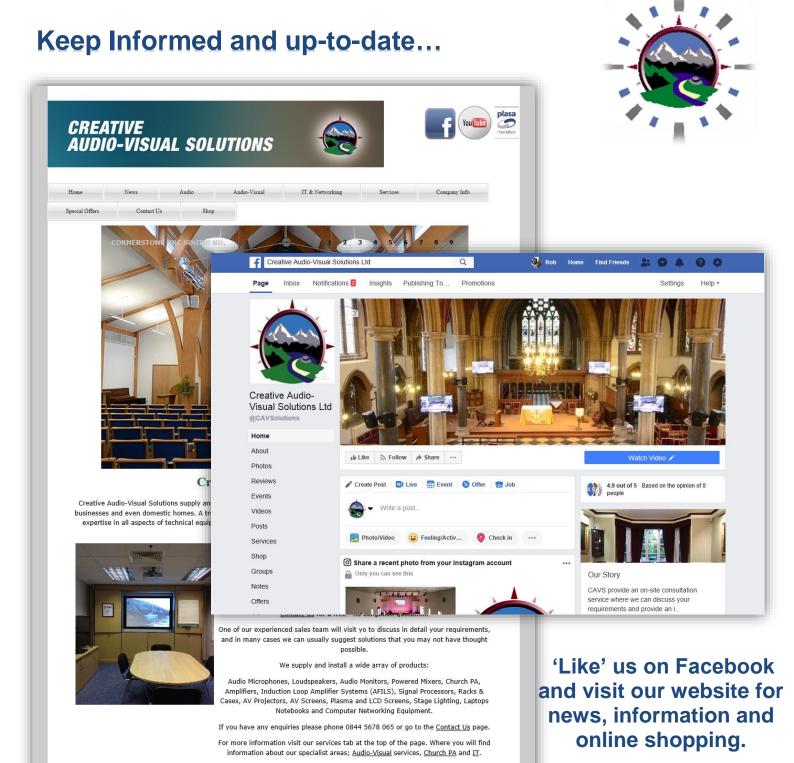






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**Creative Audio-Visual Solutions** 



We have been absolutely delighted with the work CAVS put in to designing a system for Brighton Road Baptist Church and then translating that into a final installed system. They took our original requirements and worked with us to create a most effective sound and AV system. The quality of the visual display is absolutely stunning. It has been a real pleasure

working with CAVS and I would have no hesitation in using them again. Brighton Road Baptist Church

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#### **Creative Audio-Visual Solutions**

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