INTEGRATED SOLUTIONS: Audio, Lighting & Staging
Jands AV Conferencing Solutions

Corporate culture is changing. From reducing expenditure on work-related travel to increasing productivity and efficiency through agile working, video conferencing has become a prominent consideration in all organisations’ collaboration framework – and it’s a trend that is not going to slow anytime soon.

This has led to a significant uptake of Video Conferencing technologies. Likewise, Australian businesses are dealing with more interstate and international suppliers, partners and customers than ever before - the need for efficient AV Conferencing has never been so great.

Ensuring adequate communications between every facet of your company is essential to maintaining and growing a successful business. Video quality is an important factor in a conferencing setup but there is nothing more important than audio. After all, interpretive dance may not be the best way to report sales data.

Proper video conferencing is all about having the right equipment, and thankfully, Shure and Biamp are leading the way in providing the best audio solutions for your corporate AV Conferencing needs.
The trend of open office environments shows no sign of slowing. Dozens of workers share an open floor plan without traditional closed offices or cubicles. However, everyone still needs a private space to conduct meetings and conference calls without disturbing their colleagues. Traditional conference rooms are too large and formal for everyday collaboration needs. Huddle spaces are a natural complement to this growing need and they can be designed in varying formats, from open plan “spaces” right through to completely closed and sound isolated rooms.

- Biamp’s Devio® comes packed with conferencing technology out of the box. Its beamforming microphone is suitable for use in ambient noise controlled and fixed format huddle spaces that require the ability to capture audio throughout the room as people sit or move about to engage with smart boards. It has three 120-degree zones, providing full 360-degree coverage of the meeting space. Devio also allows a user to bring their preferred device into the huddle room, plug into Devio with a single USB cable, and place a soft codec call right from their laptop.

- The MXA310 Table Array premium networked array microphone paired with a P300 IntelliMix Audio Conferencing Processor from Shure allows you to capture high quality audio and provide flexibility in varying AV Conferencing environments. Within the onboard Shure DSP Utilities, Shure’s proprietary Steerable Coverage™ technology deploys up to four discrete simultaneous coverage zones around a table and utilises an innovative “toroid” ring-shaped pattern to reject unwanted artifacts from overhead such as HVAC or projector fans.

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![Huddle Space Diagram](image-url)
Boardroom AV Conferencing often happens in spaces with premium visual aesthetics but uncontrollable poor audio quality. Architects take great pride in designing a boardroom space with premium visual aesthetics, leaving audio quality concerns to the AV integrator. What do you do in these situations when you need to install an AV Conferencing Solution without compromising room aesthetics?

- **Shure’s MXA910 Ceiling Array Microphone and P300 Intellimix Audio Conferencing Processor** deliver natural voice reproduction and speech intelligibility for AV conferencing. The MXA910 offers a versatile and elegant AV Conferencing solution that discreetly and precisely captures the richness of the human voice, featuring proprietary Steerable Coverage™ technology to accurately capture sound sources from any location in a meeting room. Paired with an MXA910, the P300 DSP offers pre-defined templates that enable set up literally in seconds, and an unobtrusive form factor for discreet installations. Versatile features and connectivity options provide freedom of choice when joining a room video system, soft codec, or connecting laptops and mobile devices.

For spaces that don’t require discreet microphones, or you are able to place a microphone on the table top, Biamp’s solutions offer a cost-effective way to achieve AV Conferencing functionality.

- **The Biamp Tesira TCM-1 is an AVB ceiling microphone comprised of a pendant microphone and plenum box. Each microphone includes Beamtracking™ technology with three 120-degree zones, providing full 360-degree coverage of the meeting space. Together with the TesiraFORTÉ DSP from Biamp, which features include Acoustic Echo Cancellation (AEC) technology, as well as VoIP integration, you can achieve excellent call quality in the boardroom.**
Large Conference or Multi-Purpose Rooms

As businesses evolve, single-use spaces are falling out of favour. Instead, organisations are choosing multi-use spaces that can be combined and configured to suit a wide range of activities. Examples include hotels, convention centres, ballrooms and rooms that can be combined with adjacent rooms or divided using floating walls to accommodate audiences of different sizes. Multi-use spaces must be flexible in terms of use and capacity, as well as room setup.

In spaces such as these you no longer need to yell into a phone at the centre of the table to be heard. With a wide range of conferencing solutions combining Shure microphones and a Biamp DSP, you can now run productive meetings with excellent call quality.

- Featuring Steerable Coverage of up to 8 separate lobes to capture sound sources from above more accurately than any other product, Shure’s MXA910 is a premium networked array microphone that captures best-in-class audio in varying AV Conferencing environments.

- Compatibility can be a beautiful thing — especially when they combine powerful tools like Biamp’s TesiraFORTE DAN VT and the MXA910 ceiling array microphone from Shure. Ethernet connectivity between TesiraFORTE and the Shure microphone makes conferencing installations easy. The TesiraFORTE DSP includes Acoustic Echo Cancellation (AEC) technology, as well as VoIP integration, bringing excellent call quality to any meeting space.

It takes more than just product from market leading manufacturers to deliver a great result. At Jands, we are proud of the value-add services we provide, including training, system design, product service and support.
Shure Microflex Advance (MXA)

Corporate AV conferencing often happens in spaces with premium visual aesthetics and poor audio quality. With Microflex® Advance™ Ceiling and Table Array Microphones, Shure combines the trusted quality of Microflex Microphones with a best-in-class level of flexibility, technology and control. The result is unmatched “invisible audio” for elite AV conferencing environments.

Groundbreaking accuracy in audio capture with proprietary Steerable Coverage™. The elegance of Dante™ Networked Audio. Seamless, browser-based control that offers easy integration with existing AV/IT infrastructure.

Shure Microflex Advance Microphones

Shure MXA910
Ceiling Array Microphone

- Features Steerable Coverage of up to 8 separate lobes to capture sound sources from above more accurately than any other product
- Intellimix DSP Suite for precise coverage settings, proven Shure Intellimix automatic mixing and EQ
- Dante™ Networked Digital Audio, power via PoE, and control (HTML5 web interface, and third-party control strings) all carried on a single Ethernet cable
- Comes in 3 colours – White, Black and Aluminium – which are all paintable

Shure MXA310
Table Array Microphone

- Features Steerable Coverage of 4 separate polar patterns, plus the new toroid polar pattern, which rejects overhead noise
- Intuitive user interface allows for easy configuration of presets, templates and polar patterns
- Dante™ Networked Digital Audio, power via PoE, and control (HTML5 web interface, and third-party control strings) all carried on a single Ethernet cable
- 8 LED colour options – clear indication of mute status via LED
- Programmable touch switch
Shure P300
IntelliMix Audio Conferencing Processor

- Proven Shure DSP algorithms optimised for audio and video conferencing applications
- 8 channels of acoustic echo cancellation, noise reduction and automatic gain control coupled with Intellimix automatic mixing, delay, compression and parametric equalisers ensure a high quality audio experience
- Connects 10 Dante™ audio inputs, 2 analogue inputs, USB and a mobile device to an A/V conferencing system or a PC-based video conferencing application
- Dante™ Networked Digital Audio, power via PoE+, and control (HTML5 web interface, and third-party control strings) all carried on a single Ethernet cable
- Power-over-Ethernet (PoE+) eliminates the need for an outboard power supply

Shure ANI Audio Network Interfaces
IntelliMix Audio Conferencing Processor

- Dante™ Networked Digital Audio, power via PoE, and control (HTML5 web interface, and third-party control strings) all carried on a single Ethernet cable
- Available with block or XLR connectors
- ANI4IN Interfaces Dante™ digital audio to 4 mic/line analogue inputs
- ANI4OUT Interfaces Dante™ digital audio to 4 mic/line analogue outputs
- ANI22 Interfaces Dante™ digital audio to 2 mic/line analogue inputs and 2 mic/line analogue outputs
- ANIUSB-MATRIX Interfaces Dante™ digital audio to 1 analogue input, 1 analogue output, and 1 computer USB interface (1 input, 1 output)

Shure SystemOn & Designer

Shure SystemOn
Audio Asset Management Software

- Identifies Shure devices across subnets
- Provides real-time status of system and device attributes
- Remotely controls audio gain, muting and RF channel assignments
- Instantly notifies the AV/IT administrator of low battery and missing devices

Shure Designer
System Configuration Software

- Allows accurate configuration of multiple MXA910s used in one room
- Provides a convenient way to organise larger installations of MXA910s in multiple rooms or buildings
- Enables preset files to be sent to someone on site and imported into each physical MXA910 device user interface
- Project files can be shared with other Designer users so that multiple people can work on a project
Shure Wired/Wireless Microphone Systems

Shure Microflex Complete (MXC)
Wired Conference System
- Ideal conference system for rooms that are used for organised board meetings, legislative proceedings, or training events
- Portable, flushmount, and modular conference units can be easily integrated into any room design
- Expandability to handle up to 3,800 participants and 31 languages

Shure Microflex Complete Wireless (MXCW)
Wireless Conferencing System
- Offers full conference functionality with Shure’s proprietary encrypted digital wireless transmission for up to 125 participants with just one Access Point Transceiver, and one RF channel
- Overcomes cable limitations at off-site meetings, in rooms with flexible seating, or in historic buildings
- Each wireless conference unit is powered by a smart Lithium-Ion rechargeable battery

Shure Microflex Wireless (MXW)
Microphone Solutions for Enterprise-Scale AV Environments
- Provides elegant solutions for managing audio in AV conferencing environments from custom boardrooms to networked enterprises
- Transmitter form factors include handheld, bodypack, boundary and gooseneck
- Dante™ networking transports digital audio from wireless microphones over Ethernet to other Dante-equipped devices
- Lithium-Ion rechargeable batteries provide up to 10 hours usage
- Operates in 1.9GHz DECT band. Free from TV / Digital dividend coordination issues

Shure ULX-D
Digital Wireless Systems
- Offers extremely efficient RF performance, networked control, Dante™ digital audio, and AES-256 encryption for professional sound reinforcement
- New ULXD6 Boundary Microphone Transmitter & ULXD8 Gooseneck Base Transmitter
- Receiver options include Single, Dual or Quad-channel. Other transmitter form factors include handheld and bodypack
- New networked charging station – SBC220
Shure Axient Digital ADX Series

Transmitters

Enhanced Features For Critical Applications

- **Robust**: Next generation digital radio system, featuring true digital diversity, wide tuning range, and Quadversity™ to provide maximum signal stability and extended coverage
- **Fast**: Proprietary Shure designed CODEC delivers ultra-low latency (2ms) for demanding applications
- **Scalable**: Dual and Quad channel receiver formats, compatible with both AD series and ADX series transmitters
- **Pristine**: Flat frequency response with 120dB dynamic range
- **Discreet**: The first micro-bodypack with an internal self-tuning antenna (ADX1M)

Shure Axient Digital

Scalable Digital Wireless Systems

- Next generation digital radio system, featuring true digital diversity, wide tuning range, and Quadversity™ to provide maximum signal stability and extended coverage
- Ultra-low 2ms latency, Dante™ digital audio and AES3, 256-bit encryption, transparent frequency response and 120dB dynamic range
- Shared receiver platform in both 2 and 4 channel formats, compatible with both AD series and ADX series transmitters
- Transmitter form factors include handheld, bodypack, and micro-bodypack (ADX only)
Insurance Australia Group (IAG) – Sydney CBD

THE BRIEF

Pro AV Solutions recently partnered with Optus for the audio visual technology fit out of the new IAG offices in Sydney CBD. The project scope revolved around the standardisation, monitoring, management and maintenance of their new technology system which had to be simple to use with little to no downtime.

In their old office space, the stakeholder had limited meeting rooms that had no control or monitoring.

The priority and key to the new office fit out was to have a technology solution that could increase the efficiency of their workspace and to have network-based devices that could be monitored and managed easily.

Pro AV Solutions were involved in this new project from the design of the 160-room installation right through to the managed services of their AV system. This end-to-end solution has significantly simplified the work environment and the workflow for the end users at IAG.
THE SOLUTION

Pro AV Solutions were first approached about the conceptual design of this new office space 18 months ago. As technology has advanced in those months, a challenge we faced was making sure the design and integration of the AV technology was not just the latest but also compatible with all devices and simple to use. Thanks to Optus and their team, this became a very smooth and fluent journey where we exceeded our clients’ expectations and hit all milestones.

As part of the move, IAG upgraded to the Cisco Webex Teams platform which enabled mobility in their office space. Via the app, Webex Teams empowers continuous teamwork with video meetings, group messaging, file sharing and white boarding all in the one platform. This system has allowed the users at IAG to connect easily to colleagues and spaces through their desktop, laptops, tablets and mobiles.

Shure MXA910 ceiling array microphones were used throughout the installation for invisible audio coverage or all room sizes that is versatile and reliable. Biamp TesiraFORTÉ Fixed Audio DSP was also installed, providing a networked audio and video processing and distribution platform.

Pro AV Solutions also redesigned the signage distribution nationally. Previously, IAG had a signage player behind each display, which was painful for them to manage and monitor. Our solution featured only fourteen signage players in total streamlining their management and monitoring for signage. They can now simply monitor their signage and distribute it to all over any site on their network.

A key element to the overall solution was the ongoing service and support for the AV technology integrated into all spaces. Working with Optus, Pro AV Solutions have a technical support resource who can answer any phone calls regarding technical difficulties in any room. For IAG, this has improved their workflow and down time issues they had previously encountered.

THE RESULTS

IAG were very impressed by how smooth the transition to their new workspace has been and the usage of the new technology. The standardised and streamlined design paired with simplified and user-friendly functionality of all spaces was key to the end user.

The upgrade of their digital signage system has also had a big impact on the efficiency of their monitoring and maintenance which were both key goals. IAG are delighted by the level of support they have received from both Optus and Pro AV Solutions during this fit out.
Biamp systems enhance professional audio & video for the most natural, clear and effective communications possible. Most people have never seen Biamp products but almost everyone has heard them, in spaces large and small, around the world, and around the clock. With professional AV systems installed in over 100 countries, Biamp is committed to delivering you high quality and innovative products that make you look, and sound, great.
Biamp Tesira SERVER
Digital Network Server
- Supports up to 8 DSP-2 cards
- Up to 420 x 420 channels of digital I/O over AVB
- Supports optional 32 x 32 CobraNet audio networking
- Supports optional 64 x 64 Dante audio networking

Biamp Tesira SERVER-IO
Digital Network Server
- Supports up to 3 DSP-2 cards
- Supports up to 12 I/O cards with a maximum of 48 channels of analogue audio
- Up to 420 x 420 channels of digital I/O over AVB
- Supports optional 64 x 64 Dante audio networking
- Supports optional 32 x 32 CobraNet audio networking

Biamp TesiraFORTÉ AI
Digital Audio Server with 12 Analogue Inputs and 8 Analogue Outputs
- Up to 8 channels of configurable USB audio
- System configuration and control via Ethernet
- Signal processing via intuitive software allows configuration and control for signal routing, mixing, equalisation, filtering, and delay
- Also available in AVB and Dante variants

Biamp TesiraFORTÉ CI
Digital Audio Server with 12 Analogue Inputs and 8 Analogue Outputs
- Acoustic Echo Cancellation (AEC) technology on all 12 inputs
- Up to 8 channels of configurable USB audio
- Signal processing via intuitive software allows configuration and control for signal routing, mixing, equalisation, filtering, and delay
- Also available in AVB and Dante variants

Biamp TesiraFORTÉ VT
Digital Audio Server with 12 Analogue Inputs and 8 Analogue Outputs
- Acoustic Echo Cancellation (AEC) technology on all 12 inputs
- Includes up to 8 channels of configurable USB audio, a 2-channel VoIP interface, and a standard FXO telephone interface
- Signal processing via intuitive software allows configuration and control for signal routing, mixing, equalisation, filtering, and delay
- Also available in AVB and Dante variants
Biamp Tesira TCM-1 Ceiling Microphones

**AVB Ceiling Microphone**

- Comprises pendant microphone and plenum box - includes DSP for Beamtracking™
- Beamtracking™ technology actively tracks and intelligently mixes conversations
- Three 120° zones for 360° coverage
- TCM-1A also available which adds two amplifier channels at 4W continuous, with Burst mode to handle peak loads; supports up to 40W (4Ω) or 30W (8Ω) per channel
- TCM-1EX Expansion ceiling microphone also available - utilising an RJ45 connection to daisy-chain a second and third microphone to an existing TCM-1 or TCM-1A

**Biamp Devio**

**Conferencing Hub**

- Works in concert with PCs running web-based conferencing solutions, including Microsoft Skype for Business/Microsoft Teams, Zoom, BlueJeans, Google Hangouts/Google Meet, and many more
- Supports both Windows and Mac PCs, and uses standard audio drivers
- Supports driverless, pass-through HDMI connectivity to a single in-room display
- Auto Setup validates device connections, adjusts room levels, and sets speaker EQ to optimise audio quality
- Bluetooth and telephone handset connection supported in the SCR-25

**Tabletop AND Ceiling Microphones**

- Beamtracking™ technology actively tracks and intelligently mixes conversations around the table
- Three 120-degree zones for 360 degrees of coverage
- Easy single-cable installation process
- Simple daisy-chain up to two microphones of the same type for larger spaces or better coverage
- Available in two form factors: the DTM-1 table microphone, or the DCM-1 ceiling microphone
Biamp Vocia

Expansion AVB Ceiling Microphone to Networked Paging Solutions

• Vocia is a highly reliable solution that provides excellent audio quality while managing all your paging, background music, and emergency communication requirements. It is powerful, scalable, and flexible, and can meet a facility’s needs well into the future. Vocia’s clarity and intelligibility are just some of the features that make this platform so special. Vocia not only gets messages where they need to go, but also ensures everyone can hear and understand those messages.

• Whether it’s supporting general and emergency paging in a corporate campus, or alerting travellers to a platform change at a train station, Vocia is working hard so you don’t have to. Vocia uses standard IP technologies such as VoIP and integrates with existing IP networks for multi-site installations.

• **Highly Reliable**
  o Decentralised network, no single point of system failure
  o Active monitoring and reporting

• **Exceptional Audio**
  o Ambient Noise Compensation for main gathering areas
  o Integrated DSP

• **Scalable**
  o Easy integration with other system, including fire/EWIS panels
  o Manage all devices via Ethernet
  o New devices can be added without disrupting existing devices

• **Flexible**
  o Software-based zone definition allows easy changes or additions
  o Ability to target pages to specific zone

• Vocia systems are highly configurable, adding components to the system as required. These components include desktop and wall-mount paging stations, input and output modules, controllers, interfaces, amplifiers, message storage and Text-To-Speech processors, ensuring your system is both suitable for the required application now, and flexible into the future.
For over 90 years, Electro Voice has designed and engineered leading edge sound reinforcement solutions - products that empower the performer, exceed the expectations of the audio professional and elevate the audience experience. Generations of hands-on professional knowledge is geared towards producing a portfolio of best in class speakers and microphones that combine performance, reliability and value.
EV EVID-S4.2T
Two-Way Surface Mount Speaker
- 4” Cabinet 70/100V Pair
- Innovative mount system is included for quick, simple, and reliable installations
- Carefully engineered for outdoor environments (IP54), without compromising performance
- Long throw 4” (102 mm) woofer housed in a fire rated ABS plastic enclosure for extended LF performance down to 75 Hz

EV EVID-S5.2X
Two-Way Surface Mount Speaker
- 5” Cabinet 70/100V IP65
- Carefully engineered for the toughest weather conditions (IP65)
- Long throw 5.25” (133 mm) woofer housed in a UL 94-5VB fire rated ABS plastic for extended LF performance down to 55 Hz
- 60 W transformer with 8Ω pass-through

EV EVID-S8.2T
Two-Way Surface Mount Speaker
- 8” Cabinet 70/100V Pair
- Innovative mount system is included for quick, simple, and reliable installations
- Carefully engineered for outdoor environments (IP54), without compromising performance
- Long throw 8” (203 mm) woofer housed in a fire rated ABS plastic enclosure for extended LF performance down to 50 Hz

EV EVID-8.2LP
Low Profile 8” Coaxial Two-Way Ceiling Speaker
- Integrated low loss matching transformer allows for either 70v/100v or 8-ohm operation
- Full bandwidth overload protection
- Waveguide coupled Ti Tweeter
- Includes tile bridge and mounting ring for easy installation

EV EVID-P6.2 - NEW
Pendant Speaker
- 6” two-way full bandwidth
- Selectable Low Z or 70/100V operation
- 75W RMS (Low Z)
**Electro-Voice**

**EVID Ceiling Speakers**

**EV EVID-PC6.2**  
*High Performance Two-Way Ceiling Speaker*  
- High output true compression driver for wide dispersion and superior coverage control to 10 kHz  
- Long throw 6.5” (165mm) woofer housed in a large vented steel enclosure for extended LF performance down to 50 Hz  
- 200 watt power handling provides for 113 dB maximum SPL  
- Front baffle transformer tap adjustment switch

**EV ZX1i**  
*8” 2-Way Passive Full-Range Indoor/Outdoor Speaker*  
- Patented ASC (Automatic Saturation Compensation)  
- Also available in 70/100 volt transformer version  
- Integrated QuickSAM heavy-duty Strong-Arm Mounting bracket  
- Available in black or white

**Dynacord**

**Dynacord C2800FDI**  
*2 x 1400W Power Amplifier for Fixed Install Applications*  
- Optimised for LZ and 70 V Direct Drive Operation  
- Fully integrated professional speaker processing with FIR Drive technology  
- Market leading acoustic performance and rock solid reliability  
- Intuitive system control software makes setup and control easy
SPARE PAGE
Founded in 1984 near Paris, France, L-Acoustics is a leading manufacturer of turn-key solutions for the professional sound industry. Part of the L-Group, which counts 400 team members, L-Acoustics is present in over 75 countries either through subsidiaries or via a network of certified distributors or providers. Twenty percent of L-Acoustics’ team-members are dedicated to research and development.

Recognised throughout the industry for pioneering the modern line array, L-Acoustics offers a total system approach for both the touring and fixed installation markets, and a product line responding to the needs of venues from the most intimate club to the grandest arena.
L-Acoustics 5XT
Ultra-Compact Coaxial Enclosure
- Passive 2-way enclosure
- Short throw applications (distributed and fills)
- 110° conical directivity with smooth off-axis radiation
- LF extension with SB15m

L-Acoustics X8
Live Monitor Enclosure
- SPL and LF resources at FOH position or control rooms
- Extended bandwidth in a compact format
- Wide conical directivity pattern for spatialisation
- No minimum listening distance

L-Acoustics X12
Multi-Purpose Enclosure
- Ellipsoid directivity of 90° x 60° for FOH
- 136 dB max SPL, operates from 59 Hz - 20 kHz
- Complete range of rigging accessories
- Passive design, optimised amplified controller presets

L-Acoustics X15 HiQ
Reference Stage Monitor
- Power (SPL) in beamwidth and acoustic isolation
- Narrow ellipsoid directivity of 40° x 60°
- High immunity to feedback
- Low profile and weight for integration and handling
L-Acoustics 108P
Self-Powered Compact Coaxial

- Plug and play design for fast and easy set-up
- Versatile: FOH, fill and monitor modes for reduced inventory requirements
- Coherent point source radiation with excellent performance off-axis
- 55 Hz - 22 kHz bandwidth

L-Acoustics 112P
Self-Powered Coaxial

- Plug and play design for fast and easy set-up
- Versatile: FOH, fill and monitor modes for reduced inventory requirements
- Coherent point source radiation with excellent performance off-axis
- 50 Hz - 20 kHz bandwidth

L-Acoustics Syva
Colinear System Suited to Medium Throw Applications

- 142 dB max SPL down to 35 Hz
- 35 m throw capability
- L-Acoustics line source heritage
- Plug-and-play package

L-Acoustics Syva Low
High Power Subwoofer

- 137 dB max SPL down to 40 Hz
- 2 x K2 12” drivers
- Contour reinforced by 9 dB
- Ratio of 1 Syva Low to 1 Syva

L-Acoustics Syva Sub
Infra Subwoofer

- 128 dB max SPL down to 27 Hz
- K2 12” driver
- Contour reinforced by 12 dB
- Ratio of 2 Syva Sub to 1 Syva Low and 1 Syva
L-Acoustics ARCS WIDE
Constant Curvature WST Line Source
- Optimised for medium-throw rental and installation applications
- Plug-and-play package, quick set-up and easy flying
- Scalable directivity from 30° x 90° to 360° x 90° by 30° increments
- Fills, distributed systems, FOH, central clusters. IP 55 protection rating
- LF extension with SB18m

L-Acoustics ARCS FOCUS
Constant Curvature WST Line Source
- Optimised for medium-throw rental and installation applications
- Plug-and-play package, quick set-up and easy flying
- Scalable directivity from 15° x 90° to 360° x 90° by 15° increments
- Fills, distributed systems, FOH, central clusters. IP 55 protection rating
- LF extension with SB18m

L-Acoustics ARCS II
Constant Curvature WST Line Source
- Optimised for high SPL, LF impact and medium-throw applications
- K1 grade components
- FOH system, fills and distributed designs for touring or fixed installation
**L-Acoustics Kiva II**  
*Ultra-Compact Modular Line Source*
- 138 dB of peak SPL (+ 6 dB SPL vs. Kiva)
- Compact footprint, low weight (14 kg)
- Smooth 100° horizontal polar response (K grill), 15° inter-element vertical flexibility
- High amplifier density (16 ohms)

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**L-Acoustics Kara**  
*Modular WST Line Source*
- Extended LF resources for contour requirements from flat to medium
- Compact and lightweight design, compliant with rigging and sightline constraints
- 110° horizontal directivity for distributed applications, fills and central clusters
- Available as install model (KARAi)

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**L-Acoustics K2**  
*Variable Curvature WST Line Source*
- K1 system design rescaled into a 12” compact and flexible format
- V-DOSC SPL and bandwidth, with 10° inter-element flexibility
- 100% acoustic and rigging compatibility with K1 and K1-SB
- 70°/110° symmetric and 90° (L/R) asymmetric horizontal directivity
L-Acoustics SB15P
Self-Powered LF Extension
- Compact and discrete dedicated P series subwoofer
- Digital system drive and equalisation with quick set-up
- LF limit: 40 Hz. Maximum SPL: 133 dB
- High power handling and high efficiency for increased reliability

L-Acoustics SB15M
High-Power Ultra Compact Subwoofer
- 40 Hz LF limit. Maximum SPL: 137 dB
- High power handling, low distortion and thermal compression
- Compatible with X Series and KIVAII

L-Acoustics SB18/SB18M
High-Power Compact Subwoofer
- 32 Hz LF limit. Maximum SPL: 138 dB
- Progressive vent for increased peak SPL, and minimal turbulence noise
- Pole mount for X Series, ARCS WIDE/FOCUS and KIVAII
- Compatible rigging : SB18(i)/KARA®, SB18m/ARCS® WIDE - FOCUS
L-Acoustics SB28
High-Power Subwoofer
- 25Hz LF limit, exceptional power handling capability
- Progressive vent for increased peak SPL, and minimal turbulence noise
- DSP presets for cardioid mode (symmetrical and asymmetrical)

L-Acoustics KS28
High-Power Subwoofer
- 25Hz LF limit, +3 dB SPL (vs. SB28)
- Exclusively driven by LA12X
- 79 kg / 174 lbs
- Fast and captive rigging
- LA12X amplified controller drive and protection
Amplified Controllers

L-Acoustics LA4X
Amplified Controller

- 96 kHz/32 bit DSP, Ethernet network
- 4 channel class D amplification fed by 4 inputs (analogue or AES/EBU)
- 4 x 1000 W power at 8 or 4 ohms
- Exclusive L-DRIVE system protection
- AVB Ready

L-Acoustics LA12X
Amplified Controller

- 12,000 W with record hold times
- Universal SMPS with Power Factor Correction
- High tolerance to unstable mains (100-240V)
- 4 x 4 architecture for passive systems
- Exclusive L-DRIVE system protection
- AVB Ready

L-Acoustics P1
Measurement Platform – AVB Processor

- EQ station with delay and dynamics processing
- Multi-mic acoustic measurement platform
- Bridging of AVB, AES/EBU and analogue audio
- 4-bus matrix routing and mixing
L-Acoustics called to provide crystal clear sound at St. John’s Cathedral

– Case Study
With soaring ceilings, cavernous naves, and smooth surfaces of stone or stained glass, cathedrals can present unique acoustics challenges. St. John’s Cathedral in Brisbane is no exception, having been bestowed the distinction of having one of the longest reverb times for a chapel in the southern hemisphere, ringing in at a whopping 7.2 seconds; delightful for Gregorian chants or pealing bells, but a sound reinforcement conundrum.

The solution was an L-Acoustics distributed 5XT system, installed in November 2017, which has since been providing the congregation with crystal-clear audio at the renowned Brisbane landmark, while preserving the architectural integrity and beauty of the heritage-listed structure.

St John’s Cathedral is the mother church of the Diocese of Brisbane, which was created in 1859. Built as a mixture of French and English Victorian Gothic Revival styles, it boasts the only fully stone-vaulted ceiling in Australia. Adding to the reflective surfaces, the cathedral’s internal walls are built of sandstone from Helidon, west of Brisbane.

“The interior is long and has some very excitable frequencies that occur in the strangest of places. It is stone-vaulted and there is nothing anywhere to absorb or diffuse the sound other than people and some timber carving,” explains Gerry Gavros from Jands, L-Acoustics certified provider for the region.

Don Bowden, director of DBAV Productions, the church’s long-time technical integrator, created the initial solution design concept using an L-Acoustics ultra-compact 5XT system, which catered to St. John Cathedral’s budget and schedule constraints.

With the help of Dan Fittell at Brisbane Sound Group, the 5XT system was first tested in a temporary installation inside the cathedral as proof of concept.

“It was proved that a distributed system running at lower controlled levels minimised the amount of energy that emanated into the cathedral’s domed roof structure,” comments Gavros. “There are side chapels, altar areas, choir stalls, etc. All get used at different times for different applications. It is a very busy place throughout the week.”

The final design was verified using Soundvision, L-Acoustics 3D simulation programme before proceeding with the installation, which needed to be completed within a very strict one-month period to accommodate an important service. To expedite the process, the system was pre-cabled at the beginning of the installation period allowing the permanent system to be swapped for the temporary one within the space of just a week.

Adding to the challenge, the church is heritage-listed and the 5XT cabinets could not be fixed into the sandstone columns. Instead, Fittell designed a bracket using tensioned stainless-steel wire system to mount the speakers. In total, 44 5XT enclosures RAL colour-matched to blend with the walls, four in the standard colour, and five LA4X Amplified Controllers were installed throughout the cathedral.

The Very Reverend Dr Peter Catt, Dean of Brisbane, is very happy with the new sound system. “The sound is very clear, and members of our regular congregation have commented that they now can hear every word spoken at the services and in the sermons, making their experience at church much more enjoyable,” he says. “The quality of sound for concerts and events held in the cathedral is also of a very high standard. We are very pleased with our new sound system.”

About L-Acoustics

Founded in 1984 near Paris, France, L-Acoustics is a leading manufacturer of solutions for the professional sound industry. Part of the L-Group, which counts 400 team members, L-Acoustics is present in over 80 countries either through subsidiaries or via a network of certified providers. Twenty percent of L-Acoustics’ team members are dedicated to research and development.

Recognised for pioneering the modern line array, L-Acoustics continues to lead the industry with L-ISA, a multichannel solution combining sound system implementation and object-based mixing to reconnect artists and audiences. L-Acoustics sound systems can be heard in places like the Hollywood Bowl, the NFL Cardinals University of Phoenix Centre or the Philharmonic de Paris as well as the world’s top-grossing festivals, the London, Sochi and Rio Olympics, and on the Depeche Mode 2017/2018 Global Spirit tour.
QSC 50 and Forward celebrates a company founded over five decades ago, now a globally recognised leader in the design, engineering and manufacture of award winning high performance audio products including power amplifiers, loudspeakers and digital mixers. Uniquely leveraging a broad range of technologies located under one roof, QSC Professional products outperform the sum of their parts by delivering reliable, scalable and flexible solutions for professional portable and production customers worldwide.
QSC TouchMix Series
Small-Format Digital Mixers

- Capacitive touchscreen offers a wealth of on-screen information while also providing confident hands-on control
- 120 presets provide real-world live sound settings for commonly-used instruments and microphones
- Direct-to-hard drive record/playback — capture and recall performances without the need for an external computer
- Simple and Advanced modes offer either basic or comprehensive controls
- Control App for iOS® and Android controls all mixer functions via Wi-Fi
- Available models: TouchMix-8, TouchMix-16 and TouchMix-30 Pro

QSC PLD Series
PLD Series Processing Amplifiers

- PLD Series consists of three powerful, lightweight, four-channel amplifiers, each with onboard, advanced DSP and the capability to configure and combine channels in various ways to drive a wide range of loudspeaker systems
- Next-generation Class D amplification with Power Factor Correction (PFC)
- With four channels of amplification plus drive rack signal processing in just 2RU, the PLD Series replaces equipment taking up as much as three times the rack-space
QSC K.2 Series
Powered Loudspeakers

- 2000 Watt Class-D amplifier module
- Deployment in either main PA or floor monitor position
- Multi-function digital display for control and selection of loudspeaker functions including cross-over, EQ, delay and frequency contour
- 6-Year Warranty (with product registration)
- Available models: K8.2, K10.2 and K12.2

QSC KW Series
Wood Enclosure Loudspeakers

- 1000-watt Class D power modules in all models (2 × 500 W continuous)
- 1.75" diaphragm compression driver in all models
- Rugged, texture-painted birch enclosures. 12" model also functions as monitor floor wedge
- Directivity Matched Transition (DMT™) provides for matched LF and HF coverage across the entire listening area, eliminating unnatural "dead" or "hot" frequency zones
- Subwoofer: KW181 18-inch Active Subwoofer with 1000 watt Class D continuous power module

QSC KS Series
Next-Generation of K Family Subwoofers

- Equipped with powerful class D amplification, advanced DSP, high-output transducers and innovative design
- The KS112 is a highly portable, single 12-inch bandpass design subwoofer, powered by a 2000 watt peak power class D amplifier module
- The 3,600 Watt KS212C subwoofer uniquely provides all the benefits of cardioid deployment in a single, compact enclosure
- The KS212C subwoofer is unparalleled in its ability to manage low frequencies on the stage, or any application where undesirable low frequency energy needs to be minimised
QSC WideLine Series

• Open, natural sound quality and exceptionally wide 140° horizontal coverage pattern - the widest of any line array system currently available
• Designed for use in a wide variety of venues, ranging from ballrooms, theatres and nightclubs to concert halls, houses of worship and arenas
• WideLine-10 users can also use EASE Focus software to aid in the design and implementation of a WideLine-10 array
• The WideLine 8 Series features the WL3082 (two 8-inch woofers) along with two models of dual 12" subs; the "flying" WL212-sw and the ground-stacked GP212-sw
• The WideLine 10 Series features the WL2102w (two 10-inch woofers) along with two models of dual 18" subs; the "flying" WL218-sw and the ground-stacked GP218-sw

QSC KLA Series

• Comprised of two models, the KLA12 12-inch, 2-way loudspeaker and the KLA181 18-inch subwoofer
• The KLA12 features a highly efficient 500 watt by 500 watt power amp module and the KLA181 offers the same highly efficient power amp module in a 1,000 watt configuration
• This fixed or “arcuate”, active line array system is ideal for a wide range of portable and permanently installed applications ranging from live entertainment to houses of worship or other venues where a line array system is desired
• With its simple Lift, Click and Play approach, KLA can be deployed in a fraction of the time required by comparable line array products
• For maximum deployment flexibility, KLA loudspeakers can be either ground deployed or flown
Established in 1987, Ampetronic are innovators and specialists in the full range of induction loop/hearing loop systems and technologies. Passionate advocates for technology solutions that improve the lives of those with hearing loss, they design, manufacture and promote loop systems around the world.

**Ampetronic C Series**

*Perimeter & MultiLoop Drivers*

- Simple digital user interface with icon driven menu, enabling accurate adjustment
- Clear indicators and system diagnostics
- Non-network and network options
- Built in test tones/1U rack mountable

**Ampetronic HLS-2C**

*Active Loop Panel for Intercoms*

- Lightweight, compact Hearing Loop (Induction Loop) unit with aesthetic styling designed to complement typical intercoms
- Combines all the crucial elements of a functional hearing loop system, requiring only power and an audio input to provide essential access to individuals with hearing loss
- Comprises an IP rated case, efficient class D loop driver (amplifier), multi-turn copper loop and the internationally recognised signage that informs the user that the service is available
**Ampetronic Loopworks™**

Loopworks™ is a unique suite of online and App-based tools and resources designed to empower Ampetronic’s customers to understand, specify and design hearing loop systems. Loopworks™ simplifies and informs every aspect of the hearing loop design and specification process, from site survey to final commissioning. Loopworks™ also increases efficiency, facilitates standards compliance and streamlines the whole loop design and testing process, saving time and money.

- **Loopworks™ Measure** - Consists of three parts: an iOS App, a Receiver and the Loopworks™ Online Tools
- App can be used in a simple Meter mode to replicate the functionality of a traditional Field Strength Meter
- Users can also take advantage of the Test mode, which contains step-by-step Wizards that guide through different procedures
- **Loopworks™ Design** - Online Portal that allows the user to design their own hearing loops. This includes the basic perimeter loops right through to ultra-low spill multi-loop systems

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### Ampetronic D14-2 Dante

*Class D Networkable DSP AFIL (Hearing Loop) Driver*

- Dante input for digital networked audio
- Drives two output channels at 14A RMS each, featuring accurate and stable 90° phase shift
- Networkable with remote browser interface

### Ampetronic R1 Receiver

*Loopworks™ Measure Receiver Field Strength Meter*

- High quality audio induction loop receiver with a vertically mounted pick up coil designed to be used in conjunction with the Loopworks™ Measure iOS App
- Currently the Loopworks™ Measure App is only available through the iTunes store, and the R1 Receiver can only be used on an iOS device; that is an iPhone, iPod Touch or an iPad device running iOS 8 or higher
Clear-Com

Communications provide the glue for any application, and Clear-Com makes sure those mission critical communications happen on time, every time. From party-line communications providing situational awareness, the luxury of being untethered with wireless, or IP communications which are lightyears ahead, Clear-Com provide an integrated solution for voice communications to suit the need of any application.

Clear-Com FreeSpeak II

*High Performance Wireless Intercom System*

- Available in 1.9GHz
- Point-to-point and group communication capabilities
- FreeSpeak II-Base-II base station for systems up to 25 full-duplex wireless beltpacks and 10 antennas
Save up to 40% when you trade-in for Clear-Com

Very Big Wireless Communications Trade-in Event!
Robe is among the world’s leading moving light manufacturers, recognised for its innovation, quality engineering and dedication to the very highest production values. Robe’s moving and LED lights can be found everywhere. They are working and installed on stages, concert halls, theatres and all types of venues. Robe’s lights are illuminating all genres of performance from music to TV and drama and opera as well as theme parks and architectural and environmental illumination.
Robe RoboSpot™ BaseStation
Remote Control of Any Individual Robin BMFL Fixture

- Allows follow spot operators to remotely control up to 12 fixtures simultaneously
- 15.6” monitor; QVGA Robe touch screen with battery backup
- 4 control jog-wheels and 10 preset buttons with a direct access of the pre-programmed features
- Activation & Blackout buttons as well as Pan & Tilt freeze buttons
- Compatible with the ROBE BMFL Spot, Blade, WashBeam and FollowSpot models
- Available with RoboSpot MotionCamera - a revolutionary moving head fixture featuring an integrated HD camera remotely controlled via DMX to pan, tilt, zoom and autofocus

Robe BMFL™ FollowSpot
Custom Modified Version of BMFL for Follow-Spot Operation

- 160 mm front lens and a high CRI 1700W OSRAM lamp
- Wide zoom range of 5° to 45° with precise focusing
- Effects: CMY, 2 Colour wheels, Frost, Iris
- Based on the powerful BMFL WashBeam

Robe MegaPointe®
New All-in-One Fixture

- Light source: Osram Sirius HRI 470 W RO developed with Robe
- Light output: MEGA bright 2,215,000 lx @ 5m
- Zoom range: 1.8°– 21° beam mode, 3°– 42° spot mode
- Effects: rotating and static gobo wheel, animation wheel, 12 beam and flower effects

Robe Lighting Control

Robe Moving Luminaires
Robe Robin Tarrantula™
LED Beam/Wash/Effects Fixture

- Light source type: 1x 60W RGBW and 36x 30W RGBW LED multichips
- Adjustable beam angle, from a tight 4° spot to a super-wide 50° wash
- Beam Shaper accessory creates a traditional oval beam that can be indexed to precisely cover the desired stage or performance area
- Effects: pixel control, flower effect, virtual colour wheel, tungsten lamp effect, pre-programmed pixel effects, optional beam shaper

Robe Spiider®
Next Generation LED WashBeam

- Light source: 1 x 60W RGBW and 18 x 30W RGBW LED multichips
- Pre-programmed pixel effects and patterns with colour, dimming and strobe chases, waves and pulses at variable speed and directions
- Innovative Flower Effect rotating in both directions at variable speed (Patent pending)
- Zoom range: 4° – 50°

Robe Spikie®
Small, Super-fast LED WashBeam

- Total lumen output: 1.800 lm (min. 13.000 lx@5m)
- Flower Effect - creates sharp multi-coloured spikes of light, rotating in both directions at variable speed (Patent pending)
- Colour mixing mode RGBW or CMY
- Variable CTO 2.700 - 8.000 K; Zoom range 4° – 28°
Robe LED-based Static Lights

Robe ParFect 150™
LED Source ACL Beam with Zoom
- Light source: 7 x 30W RGBW multichips
- Static, zoomable version of the successful LEDBeam 100
- CMY & RGBW colour control, 18-bit dimming, Tungsten emulation, selectable & variable colour temperatures
- FW variant also available for soft theatrical washes

Robe LEDBeam 150™
LED WashBeam
- Light output: 11.600lx @ 5m
- Zoom range: 4° - 62°
- Colour mixing mode RGBW or CMY
- Variable CTO: 2.700K - 8.000K
- FW variant also available for soft theatrical washes

Robe Viva™ CMY
LED Moving Light
- 350W White LED engine
- Zoom range: 9° - 40°
- Light output: 23.100lx @ 5m
- Rotating and static gobo wheel, 3-facet rotating prism

Robe Moving LED Luminaires
Mercedes Benz Fashion Week  
– Sydney, May 2018  
– Case Study
The latest instalment of the Mercedes Benz Australian Fashion Week was recently held at Sydney’s Carriageworks entertainment precinct. Bringing together the biggest names in Australian and international fashion designers, models and media, it is a must attend event for those on the cutting edge of fashion and design.

Being the show of shows in Australia, designers’ creations aren’t limited to the clothes on show; set design, theming and other theatrics are incorporated into runway performances. From synth-pop 80’s inspired fun, to break dancing, to a delicate Japanese cherry blossom garden complete with falling snow petals, artistic flare and inspiration came from far and wide.

Tasked with the lighting design for all the Carriageworks spaces, Paul Collison had quite a job at hand with the main venue being flipped multiple times during the week. The show floor would need to evolve to a rock venue from a theatre set with a complete different look and feel for shows only hours apart.

“Due to the varied use of the space, I had to design a multipurpose system that would cope with the drastic changes in the runway paths” outlined Paul. “I selected the Robe Spiider for my main wash fittings, they cover everything needed in their colour range, from big saturated primaries to pastels, and even tungsten feels for key light features. Their zoom, pixel effects and unique flower/beam element adds to the palette of effects”.

The extravagant Camilla performance featured Japanese drummers, a tea ceremony and dance among the models flaunting the latest designs.

“For the Camilla performance we used a lot of subtle pastel pinks and blues, as well as snapping to really deep blues to create background during spot lit performances”. Other performances featured super clean white light looks such as Bianca Spender, while others such as I.AM.GIA used the whole box of tricks with big rock looks, low fog, animating pixels and saturated reds. “That one was a lot of fun as we had the freedom to use more of the toys on offer. For a wash lamp the Spiiders certainly have plenty to play with”.

Production Technologies technically managed all production for Mercedes Benz Fashion Week 2018 and all lighting was provided by Chameleon Touring Systems.
Since its conception, ANOLIS has gone from strength to strength, producing a constantly expanding range of products with a well balanced mix of innovation, imagination and experience. This, together with state-of-the-art lighting technology, has created a market leading range.

ANOLIS products can be seen in a wide variety of applications worldwide, and is embraced by many market sectors including architectural, commercial, industrial, transport, retail, domestic and entertainment lighting.

**ANOLIS Ambiane™**
*High Performance Specialist Luminaires*
- Suitable for ambient lighting applications, wall washing and accent lighting
- Available in RGBW and tuneable white CCT versions with a variety of beam angles
- No UV or IR output and cool running, therefore appropriate for the widest range of applications

**ANOLIS Divine™ 160**
*High Performance 440W Luminaire*
- Can be used for a variety of architectural lighting scenarios
- RGBW, SmartWhite or PureWhite in a variety of colour temperatures combined with different mounting options and accessories make Divine™ a truly flexible solution
- Available in numerous configuration options including optics for flood or accent lighting
ANOLIS ArcDot™
High Powered Multi-Coloured LED Fixture
- Pixel mapping for large scale matrix applications, as well as used for individual illuminating needs
- Features an integrated intelligent Electronic Control System
- IP67 rating allows flexible solutions to both interior and exterior environments

ANOLIS ArcLine™ Outdoor Optic 6, 12, 18, 24, 36™
Landscape and Building Illumination
- Brings the flexibility of the ArcLine range to the Outdoor world
- Available in either single or double configurations
- IP Rating of 65, suitable for the most demanding of exterior installations

ANOLIS ArcSource™ Outdoor 4MC
1 x 10W Multi-Chip LED
- Precision lighting of intricate building features and landscape scenarios
- Functional and efficient whilst the IP67 rating ensures it can handle the harshest of environments
- Projected Lumen Maintenance: 70,000 hrs (L70)

ANOLIS ArcSource™ Outdoor 24MC
6 Multi-Chip LEDs
- Precision lighting of intricate building features and landscape scenarios
- The flush mounted “Watch Glass” frontage limits the build-up of dirt and debris
- IP67 rating ensures the fixture will maintain its high performance for years to come
- Projected Lumen Maintenance: 70,000 hrs (L70)
An international manufacturer of professional entertainment and architectural lighting, and rigging systems, ETC produces lighting fixtures, lighting control consoles, dimming equipment, power distribution, networking equipment, and rigging systems. ETC is proud of its industry reputation for unmatched technical and customer service.

ETC Architectural

ETC Unison Paradigm

Paradigm delivers a new level of comprehensive control – sophisticated facility-lighting and building systems integration. And it does so with unprecedented flexibility and simplicity: a green-minded energy management system that capitalises on daylight harvesting, occupancy sensing and time schedules for maximum electricity and budget savings, plus the power to speak with different devices from different manufacturers over the same control system.

The Unison Paradigm family of products includes elegant touchscreens, wall stations, modular control electronics, power and control enclosures, and accessories to offer the most customizable and people-friendly control systems available.
**ETC Architectural Control Processor (ACP)**
*Designed for Use in Unison DRd and ERn Enclosures*
- Point of Control Interface – easy to read system display shows the user pertinent system information
- NetConnect – making use of low-cost, easy to install Cat5/5e with PoE to connect touchscreen stations and other devices to a networked Paradigm System
- Supports 1024 channels of control per control processor

**ETC Paradigm Central Control Server**
*Provides a Central Interface and Control for Multiple Discrete Control Systems*
- Designed for use with Unison Paradigm Architectural Control Systems
- Virtual Touchscreen Stations (VTS) and large-format touchscreen integration
- Native BACnet IP interface for integration with Building Management Systems (BMS)

**ETC Paradigm 18” Touchscreen**
*High-Resolution Interface for Managing Large Lighting Systems*
- 18.5” (1366x768 WXGA TFT) colour touchscreen
- HSB ColorPicker for dynamic selection of colour with LED and multiparameter fixtures
- Timed-event creation, edit and override from setup menu

**ETC Paradigm Touchscreen Interface**
*Touchscreen Interface*
- For Unison Paradigm® systems that utilise the Paradigm Central Control Server™
- Interface supports any Windows 7 or Windows 8 HID-compliant touchscreen display
- Allows users to have at their fingertips the graphical controls and information displays they need for managing their large lighting systems

**ETC EchoTouch**
*Touchscreen Interface*
- Offers compact, stylish, and intuitive touchscreen control of lighting in architectural and smaller entertainment spaces
- Can act as an interface into a standalone or integrated Unison Echo® control system, provide status and control of all Echo products and direct control for DMX/RDM and sACN fixtures and devices
- EchoTouch shines in all environments, whether in a commercial building with users who need to choose between preset looks, or in an event space to create and recall predetermined looks
ETC Unison Mosaic Show Control

Unison Mosaic Show Control is a control solution that can merge disparate elements – show control, LEDs, moving lights, media effects and other elements into one visionary work differentiating a venue, creating a landmark, making a truly memorable event.

ETC Unison Mosaic® Tessera® Panel Controller

*Integrated Show Control and User Interface*

- Fully configurable touch Interface
- Playback for a wide range of fixture types and DMX devices
- Pixel mapping for video effects

ETC Unison Mosaic Touchscreen (M-TS)

*Touchscreen Control For Any Mosaic Control System*

- Ability to control and monitor installations using buttons, faders, buttons, colour pickers and more
- Touchscreen configuration stores as part of the system configuration file in non-volatile, solid-state memory
- PoE powered

ETC Ion Xe Console

*Lighting Control Console*

- Provides complete control of conventional and moving lights, LEDs and media servers
- Provides support for up to two external monitors
- Up to 99 discrete users
- Master playback pair with motorised 100mm faders
- Provides support for up to two external monitors

ETC Element 2

*Lighting Control Console*

- Adapts the award-winning Eos family control platform for venues with modest rigs and maximum hands-on fader control needs
- True LTP Channel Faders provide hands-on control of intensity and can be used to set manual levels and edit recorded cues and submasters
- Provides the same generous programming keypad as the larger desks in the Eos family, so you can move between consoles with ease

ETC Source Four LED Series 2 Luminaires

*LED Lighting That Can Be Used Anywhere*

- x7 Color System
- 3 arrays: Lustr, Daylight HD and Tungsten HD
- User-friendly control interface with multiple modes and fixture settings
ETC Source Four LED Series 2 Tungsten HD
LED Luminaire
- Flicker-free operation, with smooth dimming and quiet operation
- Creates warm (2700 to 4500K), adjustable-white light that mimics the performance of tungsten fixtures
- 60 Luxeon® Rebel LED emitters and 20,000-hour L70 Rating

ETC ColorSource CYC
Dedicated Cyclorama Fixture
- Designed with the sole purpose of creating beautiful, smooth washes of light on a cyclorama or wall
- Fixtures are fanless, and all-LED, consuming a fraction of the power of other standard CYC fixtures
- First ETC fixture to use this unique five-colour mix; red, green, blue, indigo, and lime
- CYC Tool app available which calculates the number of fixtures required and how far apart to space them to get full cyclorama coverage

ETC ColorSource Spot
ColorSource LED Fixture
- Brings together the affordability of a four-colour light engine with the build-quality and support of an ETC product
- Using a unique mix of red, green, blue and lime LED emitters, the ColorSource spot allows for an amazing range of colour and depth
- Available in Deep Blue that replaces the blue LEDs with indigo for rich, saturated blues and magentas
- New Pearl Spot utilises a mix of two different white LEDs that enable a user to set the colour temperature anywhere between 2700 K and 6500 K

ETC ColorSource PAR Pearl
ColorSource LED Fixture
- Variable white-light LED wash fixture that utilises a mix of two different white LEDs that enable a user to set the colour temperature anywhere between 2700 K and 6500
- Designed for installations that depend heavily on white light such as studios, houses of worship, and architectural installations
- Features flicker-free operation and an impressively smooth dimming curve

ETC Irideon FPZ 3000K
Lighting Fixture for Architectural Environments
- Rugged, die-cast fixture body / 25-50 degree zoom optics
- Long-life dimmable white LED sources
- Available in black, white, silver or custom colours

ETC Irideon WLZ
Architectural LED Fixture
- LED wash light with zoom optics that provide the highest quality beam from spot to full flood, making it ideal for museums, lobbies, retail stores and more
- A range of colour temperature options form 3000K to 5000K make the WLZ well suited for any application
- Track, canopy and portable mounting options provide the flexibility to meet any installation needs
GDS ArcSystem V1.5

ArcSystem is an award-winning range of modular, highly efficient LED lighting designed for use in auditorium and arena spaces using wired DMX or wireless ArcMesh protocol. The use of ArcMesh, a GDS developed wireless control system, allows ArcSystem lighting fixtures to be retrofitted into an auditorium without the need to rewire. ArcSystem’s perfect dimming and low glare optics produce outstanding light quality, precisely controlled for specific requirements. All ArcSystem components are convection cooled and run silently with no moving parts to fail or clog with dust. ArcSystem Emergency has mains sense fail options in all fittings and drivers enabling their use for emergency lighting applications.

GDS ArcSystem Pro One-Cell Fixtures

LED House Lighting Fixtures

- Designed for auditorium and arena spaces where quality of light, precise dimming control and ease of installation are primary factors
- CCT options range from 2700 to 5000K
- A choice of beam angles are available from 19 to 80 degrees
- Available in recessed or yoke mount variants for short to medium throw applications
- Available in fade-to-warm variants
GDS ArcSystem Pro Multi-Cell Fixtures
*LED House Lighting Fixtures*
- Designed for auditorium and arena spaces where quality of light, precise dimming control and ease of installation are primary factors
- CCT options range from 2700 to 5000K
- A choice of beam angles are available from 19 to 60 degrees
- Available in two-cell and four-cell round or square mount variants for medium to long throw applications
- Also available in fade-to-warm variants

GDS ArcSystem Arc Lamp
*LED Auditorium Lighting Fixtures*
- 24VDC operating voltage
- Dimmable 100% to absolute zero
- Available in candle and golf ball variants offering 2700K and 3000K colour temperatures
- Also available in fade-to-warm variants

GDS ArcSystem Décor LED Strip
*Interior LED Strips*
- For use in cove lighting, signage and other linear lighting projects
- White or RGBW full colour options
- Choice of colour temperatures (CCT) to match installation requirements

GDS ArcSystem TX1 ArcMesh Transmitter
*Controls and Coordinates ArcSystem Lighting Fixtures*
- ArcSystem is straightforward to install in new and existing locations thanks to wireless operation
- User control by wireless push button units and/or DMX feed from any lighting console
- Encrypted operation, not identifiable by Wi-Fi
Chroma-Q’s award-winning entertainment and architectural lighting products have been setting new standards of performance for a huge range of leading lighting designers, specifiers, rental and production companies, venues, shows and events worldwide. As well as their creative and white LED ranges, they also offer a full line-up of colour scrollers, effects lighting, accessories, and control & data distribution solutions.

Chroma-Q Color Force II
Next Generation Lighting Batten
- Over 18,000 hot lumens will easily wash a 12m cyclorama
- Homogenised output – superior colour blend & no unsightly colour-mixing shadows
- Theatrical grade dimming
- Available in 1.8m, 1.2m, 0.3m versions

Chroma-Q Inspire LED House Lighting Range
Powerful Multi-purpose Creative Lighting Tool
- Provides users with the ability to transform the look and feel of their venue by seamlessly transcending the physical barrier between the stage and audience
- Homogenised output – superior colour blend & no unsightly colour-mixing shadows
- Energy-efficient compact LED design provides reduced maintenance and running costs
- Available in either terminal strip or plug-in configurations
Jands

Jands branded lighting dimmers and control consoles are found in some of the most prestigious venues worldwide and are used by many high profile international touring artists.

Jands HUB XCD Power Control System

Allows venues to easily integrate the control of the stage power and a mixed inventory of LED and traditional lighting into the building management infrastructure

• Features a Standby mode which enables all connected loads to be globally turned on or off, reducing power usage substantially when venues are not in use
• The HUB XCD has a dimmer and contactor pair per channel and can be configured to be on, off or to act as a dimmer
• Packaged in a high density format that minimises the required wall space. A companion output patch is available in the same form factor
• Controllable via 3rd party control systems (AMX) and DMX

Jands Stage CL

Lighting Control Console

• Intended for the control of intensity-only fixtures and multi-colour LEDs
• Dedicated colour controls per fixture (24 fixtures in two pages of 12)
• Integrated RGB mimic LED per channel

Jands JLX-LITE

Lightweight Lighting Bar System

• Durable construction, lightweight with black or white finish
• Distributed Loads of (up to) 50kg/m and Point Loads of (up to) 50kg
• Two module lengths, 1.6m with 4 outlets and 2.4m with 6 outlets for simple user customised solutions from standard building blocks

MOVECAT PLUSlite (D8 Plus)

Motor Chain Hoist

• 18/24 m hoisting height
• Direct control 400 V AC or remote control 24 V DC
• DC brake (2), overload protection by means of pat. friction clutch
• Smooth, quiet operation

USHIO SAI-300

Short and Medium-throw LED Followspot

• 230W high brightness COB LED
• Powerful daylight white beam (5800K)
• Step-less dimming, 100% iris closure and a flash effect
• Lightweight design – 37lbs (17kg)