

L-ACOUSTICS SOUND SOLUTIONS

HOUSES OF WORSHIP



# BETTER ENGAGEMENT

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## THROUGH CLEAR SPEECH AND DYNAMIC MUSIC

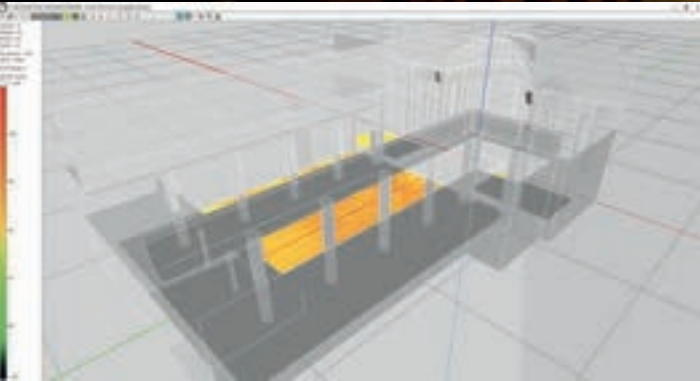
Each House of Worship sound system is unique to the needs and spirit of the House that it serves. Optimum engagement from your congregation calls for a system that delivers crystal-clear speech along with the power to reproduce dynamic music. But often worship spaces consist of reverberant building materials, so keeping the sound on your audience is key. And historic architecture can create aesthetic challenges, demanding a sound system that can be heard, but not seen.

L-Acoustics, through our global network of partner integrators and providers, works with each individual House of Worship to create the system that accomplishes your unique and individual goals. We have experience in integrating custom sound systems for numerous and diverse Houses of Worship around the globe. L-Acoustics systems are renowned for their uniform, full-range, natural sound. Our team of qualified engineers will ensure that your system is perfectly calibrated to your space. While our systems are rapid to install and easy to use, we'll also ensure that your technical team is trained and ready to reap the full benefits of the system from day one.

Over the pages of this brochure, we present just a few of the projects that we have worked on to solve some of the most common challenges faced by Houses of Worship. From design, through to implementation and beyond, you'll see how an L-Acoustics sound system will assure that every last member of your congregation will be fully immersed in your message and your music.



Cédric Montezor  
Director of Application, Install



# DISCREET, YET POWERFUL

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## SAINT JOSEPH CO-CATHEDRAL IN THIBODAUX, LOUISIANA

Listed on the National Register of Historic Places, Saint Joseph co-Cathedral in Thibodaux, Louisiana was dedicated in 1923. The Renaissance Romanesque style edifice has been magnificently preserved and seats 650 worshippers for mass. Filled with marble and plaster, the cathedral needed a sound system that could blend into the exquisite architecture while also addressing the impressive echoes from multiple hard surfaces.

Saint Joseph co-Cathedral used Soundvision to create a sound system on par with the cathedral's beauty.

When Father Vicente DeLa Cruz, J.V. visited Rome, he attended a mass given by the Pope over L-Acoustics Kiva speakers in St. Peter's Square and recommended the system to the St. Joseph Building Committee. The committee chairman was impressed, stating "if they (Kiva) are good enough for the Pope, they are sure to be a blessing for us as well."



"Kiva's directionality has greatly benefitted the cathedral. There have been so many positive comments from parishioners on how they can hear the bishop, choir and bands so much better."

Mark Hoffman, Project Manager

Most importantly, the precise directivity control of Kiva projects sound to worshippers, while avoiding the hard marble and plaster areas of the cathedral. Clear, intelligible and powerful sound now reaches to the very last row of seats. Discreet enclosures disappear into the background of the beautiful architecture, allowing the congregation to concentrate on the majesty of the space and the importance of the message.

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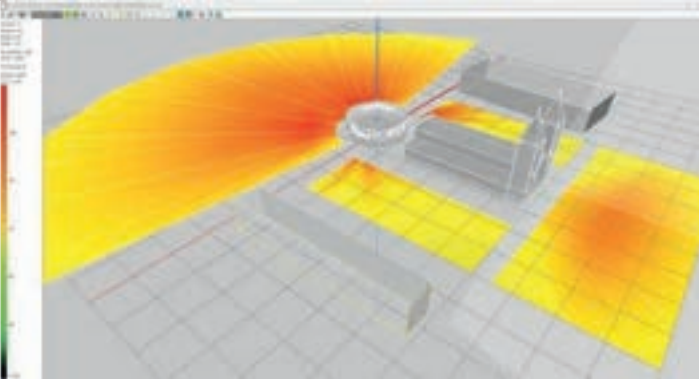
### EQUIPMENT LIST

16 x Kiva

6 x 8XT

3 x LA4

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# REACH AND RELIABILITY

## ST. JAMES CHURCH IN MEDJUGORJE, BOSNIA-HERZEGOVINA

With over 1.5 million visitors per year, St. James Church in Medjugorje, Bosnia-Herzegovina is a pivotal stopping point for pilgrims the world over, seeking to visit the site where Mary is said to have appeared to local children. Originally built as a parish church to serve five local villages, Saint James now hosts masses 365 days per year, as well as a yearly International Youth Festival that attracts more than 50,000 young people. With attendance constantly growing, Saint James needed a sound system that could cover the church, a radio broadcast studio, an outdoor chapel as well as an outdoor esplanade.

Saint James commissioned an L-Acoustics sound system to evenly and clearly cover both inside and outside masses, 365 days per year, rain or shine.

Various L-Acoustics systems were installed to address the challenges of the diverse spaces, including XT coaxial speakers distributed inside the church sanctuary which provide optimal intelligibility despite the high reverberation time. In the outdoor chapel, ARCS WiFo enclosures were placed in a center configuration to cover the first 35 meters, complemented by an L/R dV-DOSC system allowing masses to be heard clearly up to 100 meters. Subs can also be used outside for frequent music concerts. The entire system is powered by L-Acoustics amplified controllers and managed with LA Network Manager, allowing the tech team to monitor and manage the multiple systems at once, easily and from anywhere.

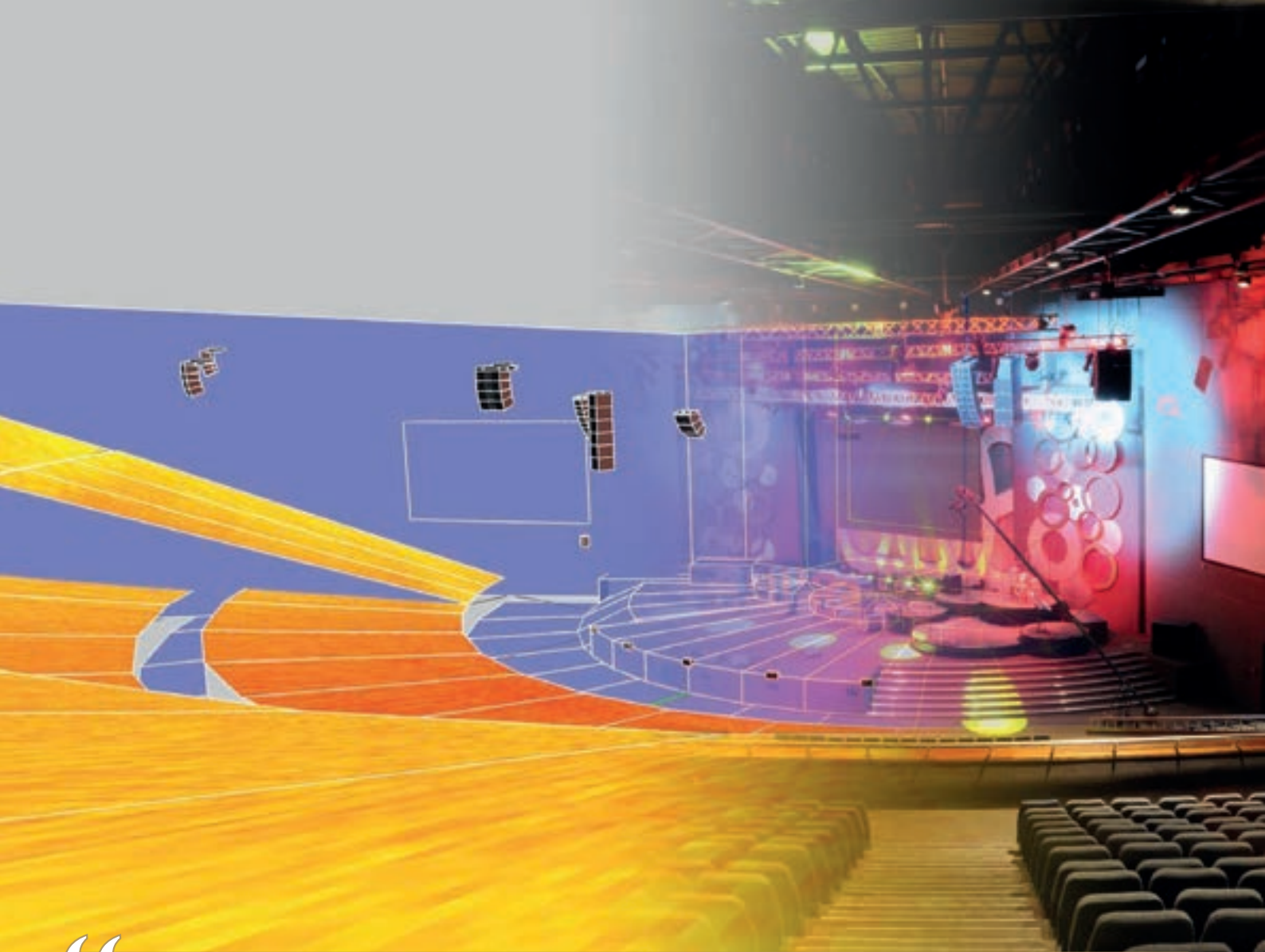


"Our L-Acoustics system has given us a new level of sound in our sanctuary. Intelligibility and sound quality have been increased and we can now simultaneously cover the entire church space as well as the extended outside space reliably."

Zeljko Sivric, Saint James Technical Director

### EQUIPMENT LIST

Parterre	Outdoor		Chapel
12 x dV-DOSC	16 x dV-DOSC	10 x ARCS WiFo	8 x 5XT
2 x LA8	8 x SB118	8 x LA8	2 x LA4



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*“What I like most about L-Acoustics Soundvision is its accuracy in predicting actual performance of the sound system. We have not had a single instance where the predicted performance and measured performance were even moderately different, and this allows me to accurately design installation projects both for new construction and for building redesigns. It is obvious that L-Acoustics has mastered the science of prediction, and the fact that they have been so consistent over the years is a testament to their manufacturing precision.”*

Deward Timothy, Poll Sound





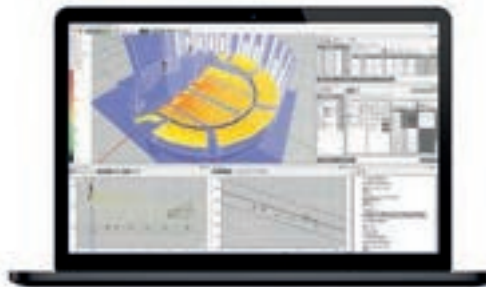
▲ Christian Revival Church, Pretoria - South Africa

# SOUNDVISION

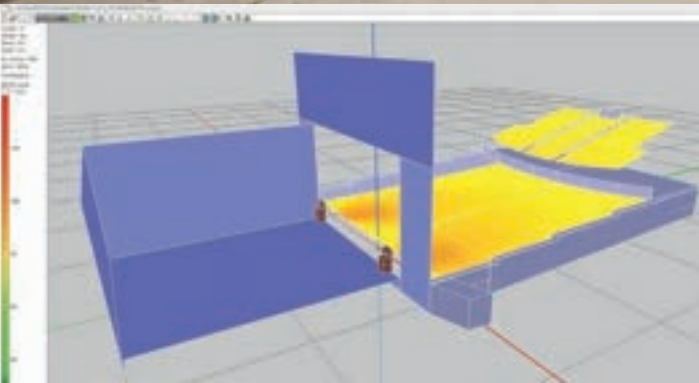
## 3D SOUND DESIGN

Soundvision supports sound designers to create acoustical and mechanical simulations of their L-Acoustics sound systems. The first 3D sound design program capable of operating in real time, Soundvision allows designers to draw audience zones manually, import them from CAD files or upload them from the L-Acoustics online database of the world's most renowned venues. Placing loudspeakers in the simulation is rapidly done, and Soundvision automatically calculates impact coverage and SPL mapping, including subs. System time alignment of multiple loudspeakers or arrays can be visualized using delay mode. Soundvision provides mechanical data with detailed set-up information for installers and riggers.

Advanced features include cardioid array modeling tools, contour EQ modeling tools and a response curve display tool that features adjustable target curve and post-processing options.



*L-Acoustics can provide electro-acoustic modules to offer compatibility with third party acoustical software.*



# PORTABLE AND FLEXIBLE

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## STONEGATE FELLOWSHIP CHURCH IN MIDLAND, TEXAS

Many thriving houses of worship open satellite churches in temporary locations to accommodate their expansion. Stonegate Fellowship Church in Midland Texas chose this route, opening up a new location in the auditorium of a local middle school, but as the new location builds up steam, it may have to move between multiple homes to accommodate more people. Stonegate Fellowship Church needed a reliable and portable audio system that would guarantee quality no matter what the location.

Stonegate invested in a lightweight, compact L-Acoustics ARCS Focus sound system for its flexibility and maximum clarity in even the most reverberant spaces.

In addition to the ARCS constant curvature line sources, Stonegate uses two SB18 subs and a dedicated LA4X amplified controller. The system is currently being ground-stacked, but it can also be flown; meaning that if Stonegate's needs evolve, they can take their system with them to a new location. No matter where Stonegate expands, the church will always have perfect sound even in an imperfect environment, and an investment that will keep paying them dividends for years to come.



“Our Odessa venue is very challenging because it wasn’t designed to have a PA in it. To maximize clarity in both our speech and music reinforcement we needed something that would be very clear, plus be focused to put the sound exactly where we needed it, and the ARCS Focus boxes do exactly that. The subs are extremely punchy and clean and the amount of power that they put out for their size is just ridiculous! From the lowest lows all the way up to the top end we are really getting out of it something that we love.”

Tyler Dodds, Stonegate Fellowship Church Pastor

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### EQUIPMENT LIST

4 x ARCS Focus

4 x SB18m

2 x LA4X

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*“There are many good brands out there but L-Acoustics was the one that ticked all the boxes for us and the good support we receive from L-Acoustics partner Sound Harmonics is the best part of it. They installed what they promised when they promised, regardless of many challenges that they were faced with and we are very happy with the install and service we were given.”*

Jean Kruger, sound and maintenance manager at Christian Revival Church, Pretoria - South Africa

# CERTIFIED PARTNERS

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## Rental Network

The L-Acoustics Rental Network comprises over 600 agents worldwide. Our agents operate on the most prestigious tours, festivals and events around the globe. They are committed to providing equipment according to the L-Acoustics system standards and experienced technicians, trained and certified on L-Acoustics systems.

## System Integrators

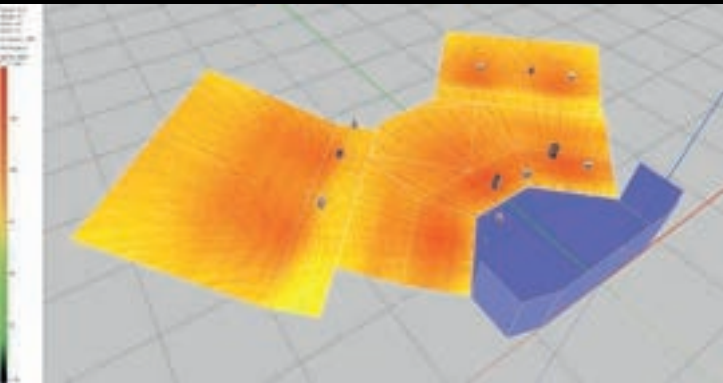
L-Acoustics System Integrators follow a precise charter set out by L-Acoustics. A systematic approach from project analysis, electro-acoustic and mechanical specification, system tuning, commissioning and training is provided by highly qualified personnel. Integrators and consultants can benefit from the accumulated experience of nearly 2,000 installations worldwide.

## Distribution Network

Alongside the L-Acoustics in-house team, the Distribution Network is committed to serving the professional audio industry in over 40 countries. Distributors provide assistance and support to system integrators, rental companies, engineers, consultants and end-users, as well as providing access to demonstration equipment and ensuring local product availability and after sales service.



▲ Skylark Audio Video installing LA4 amplifiers at Rivers Crossing Community Church in Mason, OH



# IMPACT AND INTELLIGIBILITY

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## PANTANO CHRISTIAN CHURCH IN TUCSON, ARIZONA

Today's audiences have ever higher expectations, therefore the challenge facing many dynamic Houses of Worship is to maintain congregation engagement. At Pantano Christian Church, half of weekend services feature modern Christian rock, yet worshippers were regularly voicing concerns that they couldn't properly hear the music or the message. And with a worship space consisting of three distinct spaces - a main sanctuary, plus adjoining gymnasiums with bleachers, all separated by floating air walls - Pantano needed a sound system that could cover three spaces individually, but also easily come together to cover the entire space cohesively.

Pantano commissioned an L-Acoustics ARCS Wide and Focus loudspeaker system to get consistent, even coverage everywhere with clarity and definition of sound.

Pantano chose L-Acoustics ARCS WiFo constant curvature line sources to perfectly fit the contours of each individual room. The system is powered by LA8 amplified controllers and managed by the front-of-house console which can recall, at the touch of a button, the PA setup for each of the three rooms in either combined or split mode.



"I was recently talking with one of our guests after a Sunday morning service. He couldn't stop talking about how professional things seemed to him. He was blown away by the quality of sound. He related our quality of audio with that of other high-end venues that produce a memorable experience, which is what we strive to provide."

Paul Taylor, Pantano Christian Church Pastor

With their ARCS WiFo 'best of both worlds' solution, Pantano now has a sanctuary and two multi-purpose rooms that sound great individually, but can also work collectively to welcome 2,000 worshippers for a dynamic, cohesive audio experience. The space now has seamless coverage from the top of the gymnasium bleachers all the way down to just in front of the sanctuary stage.

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### EQUIPMENT LIST

6 x ARCS Focus

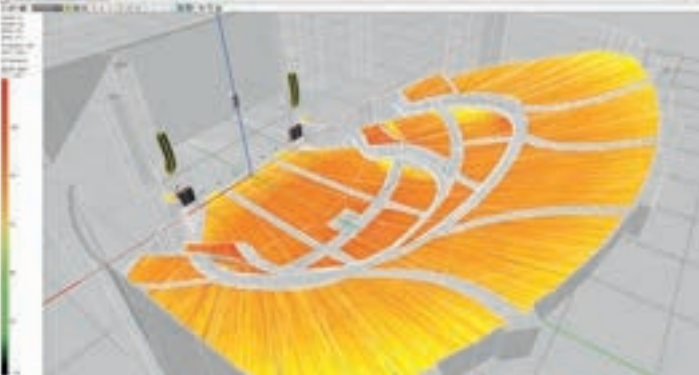
11 x ARCS Wide

8 x SB18m

6 x 5XT

7 x LA4X

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# CONCERT SOUND FOR WORSHIP

## NEW CREATION CHURCH IN SINGAPORE

New Creation Church, at 31,000 members, is the largest congregation in Singapore. Founded in 1984 the church held worship services in varied venues as it sought to accommodate its growing population. The church was thriving enough to be able to build a custom space seating 5,000 for worship services that could achieve self-sustainability, doubling as a performing arts center when not being used for worship. The sound system chosen by New Creation Church needed to be of a size and power beyond norm for most churches: delivering perfect speech and music, while also serving for musicals, dance, orchestras and pop acts, such as Jason Mraz or Lilly Allen.

Following a comparative demo, New Creation Church chose a K1 system for the newly built, multipurpose, state-of-the-art Star Performing Arts Center.

Housed in a 15-story mixed development complex with award-winning architectural design by Aedas, the Performing Arts Center spans 8-stories and 30,000 square meters designed by Artec Consultants. The highlight of the Star PAC is the theater but it also includes an open terrace, a gallery that can break out into five smaller rooms, a rooftop reception area and seven supporting rooms with a capacity from 60 to 120.



“We had to make sure that the coverage was even, meaning high-fidelity sound at high levels. And the idea that there has to be clear and high quality sound everywhere was the motivating factor.”

Sten Severson, Artec Sound System Designer

K1 was chosen for its rider-friendliness, giving the Star PAC an attractivity for top-flight performers while also handily covering all dynamic worship duties for this successful and demanding congregation. Two line arrays flown L/R cover the whole theater without impeding the award-winning aesthetics. A center cluster of compact, lightweight Kara is dedicated to vocals, while mobile SB28 subwoofers can be added onstage for some of the more energetic rock performances.

### EQUIPMENT LIST

24 x K1	20 x Kara	14 x 8XTi	2 x 12XTi	16 x SB28
24 x LA8	4 x LA4			



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*“As an L-Acoustics Application Engineer, I have the opportunity to work with a wide range of professionals, from users to integrators to consultants. Our team offers support to audio professionals right from the early stages of their project, all the way through to commissioning and training. From small live clubs to the world’s most renowned venues, our goal is to always ensure that we offer engineering-driven advice and expertise to attain the optimum sound solution for each individual project.”*

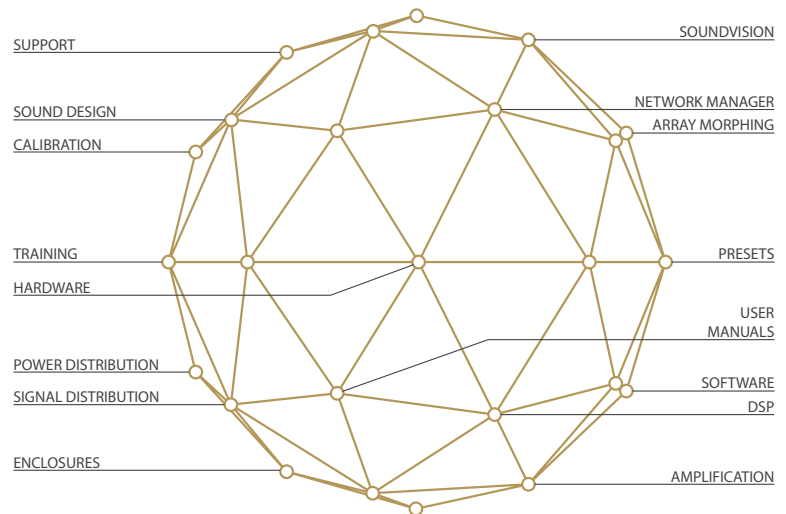
Julien Laval, Application Engineer Install at L-Acoustics

# SERVICES

## EDUCATION & SUPPORT

L-Acoustics' total system approach to sound goes beyond hardware and software. We offer training, show assistance, design support and on-site tuning and calibration for rental providers and system integrators. Our in-house engineers and certified consultants have been carefully selected for their skills and professional experience in the audio industry.

From basic technical and operational knowledge of L-Acoustics systems, through to providing full certification as a System Engineer, our clients will always get the best out of their L-Acoustics systems.



# REFERENCES

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<b>Abundant Life Church</b>	Bradford - UK	<b>LDS Conference Center</b>	Salt Lake City, UT
<b>Assemblies of God</b>	Mafeteng - Lesotho	<b>Mana Church Auditorium</b>	Mana - Portugal
<b>Bethany Suko Manunggal</b>	Surabaya - Indonesia	<b>Mokpo Church</b>	Kimhae - Korea
<b>Bethlehem Church</b>	Oslo - Norway	<b>New Community Church</b>	Southampton - UK
<b>Calvary Church of Naperville</b>	Naperville, IL	<b>Oslo Christian Centre</b>	Oslo - Norway
<b>Christian Revival Church</b>	Pretoria - South Africa	<b>Panorama Zentrum Church</b>	Walzenhausen - Switzerland
<b>Community Reformed Church</b>	Zeeland, MI	<b>Radiant Church</b>	Richland, MI
<b>Cornerstone Church</b>	Singapore - Singapore	<b>Rang Community Church</b>	Anahiem, CA
<b>Crossroads Nazarene Church</b>	Chandler, AZ	<b>Shepherd of The Hills</b>	Porter Ranch, CA
<b>Crystal Ministries Internat.</b>	Johannesburg - South Africa	<b>Smyrna Church</b>	Gothenburg - Sweden
<b>Dominion Church</b>	London - UK	<b>St. Andrew Lutheran Church</b>	Mahtomedi, MN
<b>Doxa Deo East Campus</b>	Pretoria - South Africa	<b>St. Botolph without Bishopsgate</b>	London - UK
<b>Eastlake Church</b>	Chula Vista, CA	<b>St. Demetrius Church</b>	Belgrade - Serbia
<b>Elevation Church</b>	Charlotte, NC	<b>St. Luke UMC</b>	Orlando, FL
<b>Epikos Church</b>	Milwaukee, WI	<b>The Meeting House Church</b>	Unbridge - Canada
<b>Faith Family Church</b>	Victoria, TX	<b>The Rock Church Of San Diego</b>	San Diego, CA
<b>Givisiez Church</b>	Givisiez - Switzerland	<b>The Woodlands UMC</b>	Houston, TX
<b>Gong-Ju Church</b>	Gong-Ju - Korea	<b>Union Chapel</b>	Islington - UK
<b>Grace Methodist Church</b>	Singapore - Singapore	<b>Winchester Family Church</b>	Winchester - UK
<b>Graha Bethany Nginden Church</b>	Surabaya - Indonesia	<b>Woodstream Church</b>	Bowie, MD
<b>Jesus House</b>	London - UK	<b>Yan Fook Church Center</b>	Yan Fook - Hong Kong
<b>Kyoungsin Church</b>	Kyoungsin - China	<b>Yonsei Central Baptist Church</b>	Yonsei - Korea

# NOTES

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## **Photo Credits**

Cover Page Top Left: Life Church of Memphis - East Campus photo courtesy of Elite Multimedia  
Bottom Left: St. James Church, Medjugorje, Bosnia-Herzegovina  
Bottom Right: LDS Center photo courtesy of Kyle Gibson

Page 8 Stonegate photo courtesy of Wayne Stratton

Page 10 Star Performing Arts Center photo courtesy of Star Performing Arts Center

Page 14 Photo courtesy of Stéphane Ecalle





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