

L-Acoustics brings ultimate sound experience to Sleeping
Beauty Dreams

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To supply the L-ISA technology, Magic Reality Group (MRG) chose Claire Global for the US tour, and one of Russia's largest and most established rental companies, Euroshow, as sound provider

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Technological feat brought to life with L-ISA Immersive Hyperreal Sound technology

MOSCOW, RUSSIA - April 2020 – Sleeping Beauty Dreams is a revolutionary fusion of contemporary dance, real-time digital avatar technology and hypnotic electronic music. Based on the Grimm Brothers fairy tale, the spectacular production explores The Princess's – often haunting – dreams, passions and temptations during her hundred-year slumber. Sound and movement achieved stunning cohesion as NOISIA's Thijs de Vlieger's futuristic score was presented in L-ISA Immersive Hyperreal Sound technology, with every movement of The Princess, performed by celebrated dancer Diana Vishneva, tracked in real time with BlackTrax motion tracking.

The avant-garde rendition of the classic tale of Sleeping Beauty is a revolutionary theatrical production. Conceived by Miami-based Magic Reality Group (MRG), Sleeping Beauty Dreams (SBD) combines visual art, contemporary dance and cutting-edge avatar-mapping projection, set to an immersive sound of harsh and, at times, darkly ambient electronic music, to create a unique multi-dimensional scenic experience.

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L-ISA technology by L-Acoustics was deployed for the first time in the Russian touring market by Euroshow.

To achieve this, L-ISA partner BlackTrax real-time motion tracking was used throughout the entire production of SBD in innovative and profound ways by perfectly synchronizing lighting and audio elements, giving precise responses from each and offering complete coverage to the stage and freedom of movement for Vishneva. Additional to its role in tracking for lighting, BlackTrax was also integrated with L-Acoustics L-ISA, which received positional data from BlackTrax to connect visual and audio imaging to deliver a fully immerse experience to the audience. The live content was generated by using Perception Neuron system, to track dancer's graceful movements via 17 inertial sensors attached to Vishneva's costume, mapping her movements to giant digital avatars gliding across a large screen just as Prima Ballerina did on the stage floor. The integration of both technologies was done by the Fuse team. The whole show was centred around Vishneva, who, even during one of the most beautiful moments in the production where she dances with her Prince, played by Marijn Rademaker, was the only dancer wearing a motion costume.

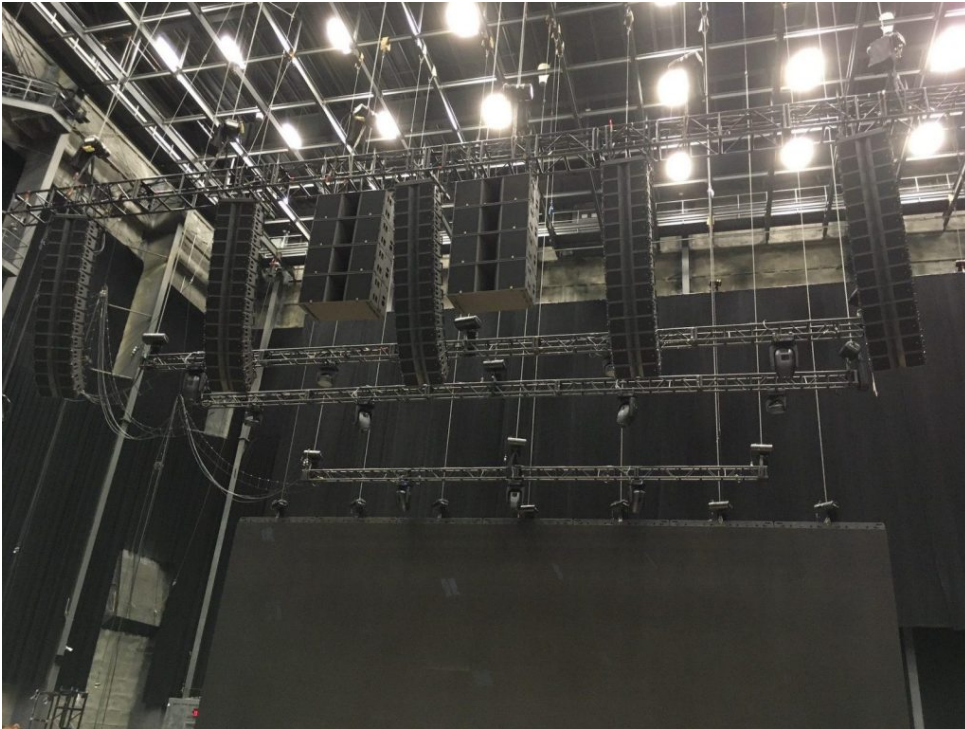
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MRG chose Euroshow as sound provider for the Russian leg of the tour and Clair Global in the US. One of Russia's largest and most established rental companies, St. Petersburg-based Euroshow worked on deploying L-ISA technology across nine shows in eight Russian cities between 14th of September and 6th of October last year. Andrey Akhromeev, a freelance engineer, was in charge of designing and tuning the sound system according to L-ISA design rules and adapting it to the different venues. He also programmed the playback system, which was running L-ISA control plug-ins.

Akhromeev joined the tour during the early period of the Russian leg, about a month before rehearsals in St. Petersburg. "The desire to use L-ISA technology was there from the very beginning, with the previous production manager introducing the system to the creative team and assistance being provided by Dave Brooks and Carlos Mosquera of L-Acoustics," he says.

To complement De Vlieger's atmospheric, industrial soundscape, Akhromeev chose to deploy a fully immersive sound configuration, with a frontal system that was enhanced by surround sources positioned along the side walls. With the show predominantly playing in theatres, finding rigging points in the proscenium and designing a system that could be flown behind the proscenium line was a challenge for the team. Akhromeev leaned heavily on L-Acoustics Soundvision to model the venues, design and test the configuration. For this, he worked closely with Euroshow's system tech, Arthur Vitkalov, who helped to render the venue sites. They received additional support from Sherif El Barbari, Director of L-ISA Labs, for the initial system design stage during the rehearsals and the first shows.

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The final L-ISA configuration comprised five hangs of Kara spread across the front of the stage, with between eight and 14 elements per hang, depending on the venue configuration. Six to eight KS28 subs were flown beside the centre Kara hang.

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“Placing subs beside the centre hang has become standard in theatre-type venues

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due to limited options for rigging points,” explains Akhromeev. “Normally, there are no rigging points capable of bearing heavy weights in front of the proscenium. Because of that, the team had to fly the main truss, which was holding the whole frontal system just behind the red line (fire curtain). At the same time, we had to keep in mind lighting and video fixtures that also required space, so they could reach the right points on stage. For that reason, flying subs beside the centre hang was the most viable option for us.”

Between 10 and 18 X8 cabinets were used for the surround system, located along the walls on speaker stands, with the additional option of hanging them using special brackets. The system was driven by 24 LA12X amplified controllers and four P1 system processors, with the M1 measurement suite helping to speed up the system tuning process by communicating directly with the LA12X during calibration procedures, eliminating the need for external software and hardware.

Whilst the set-up process of L-ISA was similar to that of a standard PA, the mixing process was a revelation for the team.

“Tuning was not significantly different,” continues Akhromeev. “Most importantly, we could achieve the right design in L-Acoustics 3D Soundvision software with the L-ISA module, which offered the opportunity to evaluate the L-ISA zones and all the dead spots. Mixing was completely different though. It wasn’t really mixing anymore, as we were playing with objects in space. It required more precision during the mix because of the greater resolution of the system. This gave us additional space for each object, which led to a better, more distinct and natural sounding show.”

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Anton Rastorguev, Head of Sound at Euroshow shares his thoughts about the effect that L-ISA had on the team and the audience: “As specialists in the show industry, L-ISA really impressed us. This is the first time that the technology has been used in the Russian touring market. The L-ISA technology was a true revelation. We heard sound in these familiar venues in an entirely new way.”



Sleeping Beauty Dreams brought to life with L-ISA Immersive Hyperreal Sound technology by L-Acoustics. Photo credit to Irina Tuminene.

Rastorguev also believes that the system made a lasting impression on the show's audiences.

“The main impression that I got from them was ‘the sense of involvement’ and ‘being enveloped by the music and The Princess’s dreams’,” he says. “Andrey’s mix was incredible and encapsulated the essence of L-ISA. Deploying the system for the first time in the Russian touring market was a big step forward for us. I hope that we can use L-ISA on many future projects and introduce even more people to the multidimensional sound experiences that L-ISA technology brings.”

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About L-Acoustics

Founded in 1984 near Paris, France, L-Acoustics is the market leader in professional sound reinforcement technologies. With over 550 team members worldwide and offices in Paris, London, Los Angeles, and New York, L-Acoustics is present in over 80 countries via our network of Certified Providers. Focused on solutions that elevate the audience experience, more than 20% of L-Acoustics' talent is devoted to R&D in the areas of acoustics, applications, mechanics, electronics, signal processing, and software development. In recognition of creating innovative

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professional sound technology, L-Acoustics was named as one of Fast Company's Most Innovative Companies of 2020.

Recognized for pioneering the line source array, L-Acoustics continues to shape the future of the professional audio industry with L-ISA Immersive Hyperreal Sound technology, a multidimensional, object-based approach to designing, mixing, and processing sound that results in extremely natural and intelligible audio, and a more vibrant, authentic connection between artists and their fans. Now also available for exceptional private sound spaces with L-Acoustics Creations designs.

L-Acoustics technologies can be heard in places like the Hollywood Bowl, Dickies Arena, Allianz Arena, home of Bayern Munich, or the Philharmonie de Paris, as well as the world's top-grossing festivals, and on tour with world-class artists such as Mark Knopfler, Aerosmith, and P!NK.

Photo credit to Kir Simakov