

ISLAND

L-ISA

Immersive Sound Art

At the end of the seventies, when I was finishing my PhD in particle physics, a whole generation was captivated by the sound of pop music. Music festivals and tours multiplied and, although a career in research lay ahead of me, I went to as many concerts as I could - where I became intrigued by the technology I saw.

The years went by until 1984, when I decided to follow my passion for music and founded L-Acoustics, a company dedicated to the design of concert sound systems. Our products rapidly set the industry standard among live sound professionals and the company became a leader in the hi-tech sector.

Along our journey, we forged close ties with major artists and show producers, giving us a unique understanding of their art. This in turn brought us the opportunity to collaborate with them in co-producing the ultimate editions of their work which reveal the true authenticity and depth of character of their music.

But beyond this it was the emotion of live performances which fascinated me, and for years I harboured a secret ambition to combine sensational music and exceptional sound systems to bring the stylistic subtleties and spatial resolution of a live concert into a private setting. Thanks to our LISA technology, this wish has become a reality.

I invite you to discover the unique hyperreal sound installation that we call Island. Designed for leisure and relaxation, I am convinced it will offer you an entirely new way to connect with the emotion in music, as if it were being played just for you.

A handwritten signature in black ink that reads "Christian Heil". The script is fluid and cursive, with the first letters of "Christian" and "Heil" being significantly larger and more stylized than the rest of the text.

Dr. Christian Heil, Chairman & Founder of L-Acoustics



MUSIC AS YOU HAVE NEVER HEARD IT BEFORE...

Island is the fusion of a visionary art project with a technological masterwork, brought together under the rigorous standards of the professional audio world. Island is a state-of-the-art multichannel auditorium, designed to immerse you in extraordinary music and sound from a wide variety of sources, all brought to life by the installation's professional grade technical platform and its exceptional acoustics.

Even in the most exclusive of environments, it is Island's stunning design which first catches your eye. Conceived as a three-dimensional work of art, its oval form is a beautiful piece of furniture, whose comfortable and generous living space rotates to face the sun, the sea - or the screen of your home cinema.

But the real achievement is hidden within the elegant casing, where Island harbours the ultimate in multichannel audio, the culmination of years of research into sensory psycho-acoustics.

The outcome is an extraordinary personal auditorium where you can listen to music, watch a film or simply sit back and unwind on a journey of discovery into hyperreal immersive sound.

EXPLORE THE ULTIMATE IN PROFESSIONAL AUDIO

Island's sleekly beautiful profile conceals more than a tonne of cutting edge technology. Within it, our solutions for the professional market have been reimagined and redeployed on a multichannel platform that delivers sublime music and sound just for you. The signature immersive hyperrealism of the LISA protocol is built on a proprietary 24-channel audio platform. In Island, each channel draws a colossal 1 kW of power to drive a dedicated professional-grade speaker, faithfully reproducing the full 140 dB dynamic range of a symphony orchestra, while the spectrum

extends even into the infra-low range by transmitting sound through the installation's physical structure. Even the acoustic properties of Island are extraordinary, surpassing those of a recording studio and ensuring optimum sound quality irrespective of its environment, while its superb performance makes it the dream auditorium for the most demanding musical experts and sound designers. But forget the technology - instead relax and prepare yourself for an amazing experience...





THE SOUND OF BUBBLES

Island's state-of-the-art technology optimises music and sound from any medium, including CD, DVD, Blu-ray and streaming services, but in order to reach the pinnacle of Island's ultra-high definition capabilities, you'll need an ultra-high definition music source.

The Blububbles music label has responded to this challenge by creating a new music medium of the highest quality and accuracy: the Bubble.

Bubbles are an essential part of the experience of listening to music on Island. Each contains a single album of extraordinary music, specially recreated and remixed in order to exploit the installation's exceptional technical and spatial capabilities.

Bubbles are encoded in Blububbles' proprietary Blu 23.1 immersive playback format which makes the most of the capabilities of an L-ISA installation, thereby bringing together the musical and visual arts to add the finishing touch to Island.

It is even possible to commission artists to create new Bubbles for you to treasure as part of your private collection.



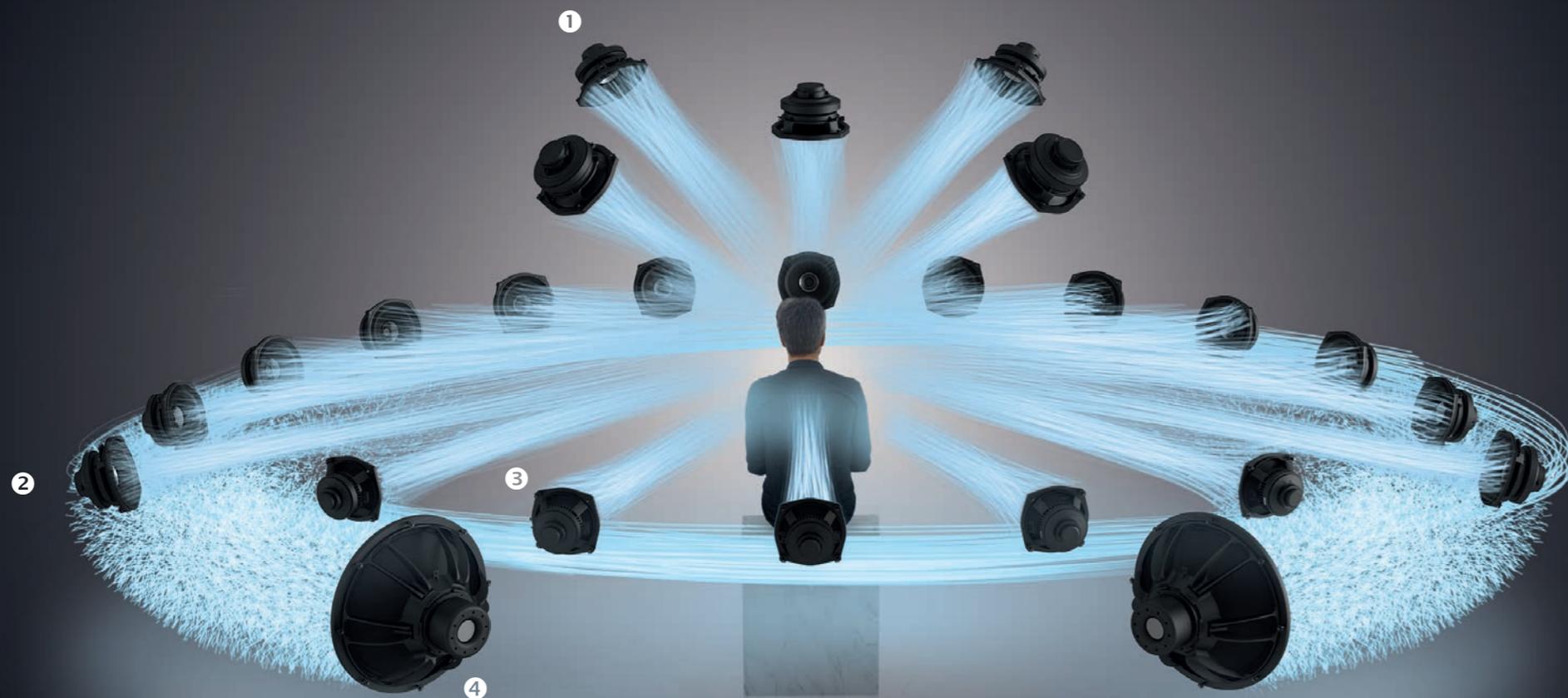
THE BUBBLE DECK

The Bubble Deck is a veritable jewellery box designed to accommodate the exquisite Bubbles that contain your music. The only visible technological element of your installation, the Bubble Deck also gives you control of Island's essential functions.

Place a Bubble on the Bubble Deck and right in front of you the philharmonic attacks the first musical piece. Captivated, you increase the volume on the remote control and close your eyes, listening for the subtle nuances of each instrument, locating them in your mind's eye. You are at the conductor's stand as the sound envelops you...

Or perhaps you're a passionate fan of modern music. Put another Bubble on the Bubble Deck and a new musical selection starts immediately. Suddenly you're in the concert producer's seat, or at the sound engineer's mixing desk in a famous recording studio, astonished by the unprecedented precision and impact of the music, as if the artist were standing just in front of you.

Classical, opera, jazz, electronic, contemporary, cinema... Whatever your tastes, Island responds instantly to your instructions. Every piece becomes a private concert, faithfully rendered and accurate down to the smallest detail.



THE EXCEPTIONAL REPRODUCTION QUALITIES OF BLU 23.1

The Blu 23.1 format offers 24 independent playback channels that create music of stunning realism, projecting you straight to centre stage.

In search of absolute authenticity, Blububbles revisits the fundamentals of musical reproduction by specifying identical conditions for recording and playback. As a result, you enjoy the exact same sound experience in Island's ideal listening position as the musical producer.

Whether recorded live or in the studio, the musical signals remain uncompressed and retain the full dynamics of the performance. You hear exactly what the artist intended, thanks to the tools developed by L-ISA engineers, which help the producer build an acoustic landscape and locate within it sound objects such as voices and instruments.

As a result, the final musical arrangement teems with detail. It breathes, it pulsates and it lives, giving the musical creation an unforgettable signature.

- 1 - The high-level zone, formed of four speakers in a square as well as a central "shower" source.
- 2 - The frontal zone, made up of thirteen speakers positioned every fifteen degrees around a semi-circle.
- 3 - A rear zone formed of five separate speakers at thirty degree intervals.
- 4 - The subwoofer channel handles all sound signals below 80 Hz.



HOME CINEMA WITH XXL SOUND

Island caters to all of your entertainment needs, from watching films and projections to playing video games. Turn it to face the screen with the touch of a button, then lose yourself in an entertainment experience beyond any other.

Working seamlessly across the sound spectrum, Island renders precisely the smallest detail, brings colossal power to action scenes and wraps you up in the hyper-realistic sound of emotional moments. Every film you watch on Island becomes a special occasion.

Whether you're alone or with friends, Island will quickly become your only choice for entertainment. Regardless of the audio format, today's very best processors remix and enrich the source signals, drawing out the best from your Island and bringing you the superlative sensory listening experience that previously existed only in your dreams.



AN ISLAND OF CALM

Island is a protective and superbly comfortable haven in which you'll immediately feel a sense of calm and well-being.

Place a Bubble on the Bubble Deck and you find yourself immersed in the acoustics and atmosphere of a concert hall. The geometrical configuration of the loudspeakers focuses the sound field directly towards you, protecting you from external distractions and allowing you to enjoy a stimulating sound level without hindering nearby conversations.

The intelligibility is perfect, the quality of the interior soundproofing without compromise; indeed, Island's exceptional internal acoustics mean there is no need to apply external acoustic treatments to the room in which it is located.

Island is the ultimate audio reference, whether for leisure or for daily professional use.

The acoustic specifications and the objective advantages of the Island installation may be consulted under International Patent Pending PCT/EP2016/059561.



FREEDOM, SOFA, FOCUS...

Island is more than the focal point for entertaining guests, it's a personal entertainment space. Its mere presence in your home is a call to unwind, relax and make the most of your time. That's our idea of luxury!

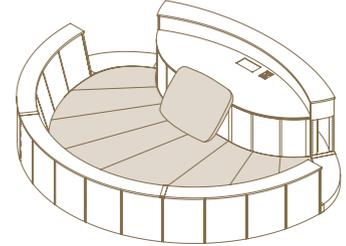
Whether it be for stolen moments in your overbooked schedule or longer periods devoted to meditation, music or films, Island offers a flexible layout to accommodate your needs, so configure the internal space to your personal preferences and enjoy Island according to your own rules! Contact us to learn more about your options.

◀ Private residence in Hampstead, London (with the permission of the owner).



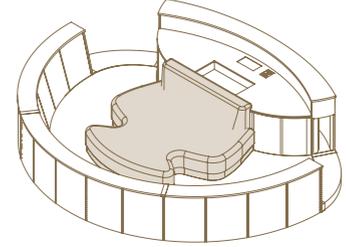
FREEDOM CONCEPT

Intended as a space for meditation, relaxation and fun, the FREEDOM concept is fitted with a luxurious mattress from Savoir Beds which covers the entire interior of Island, giving you the perfect balance between support and comfort as well as complete liberty to relax with family and friends any way you wish.



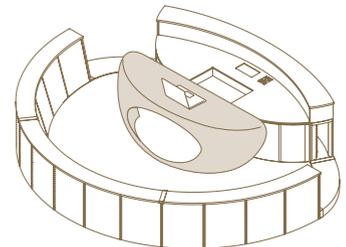
SOFA CONCEPT

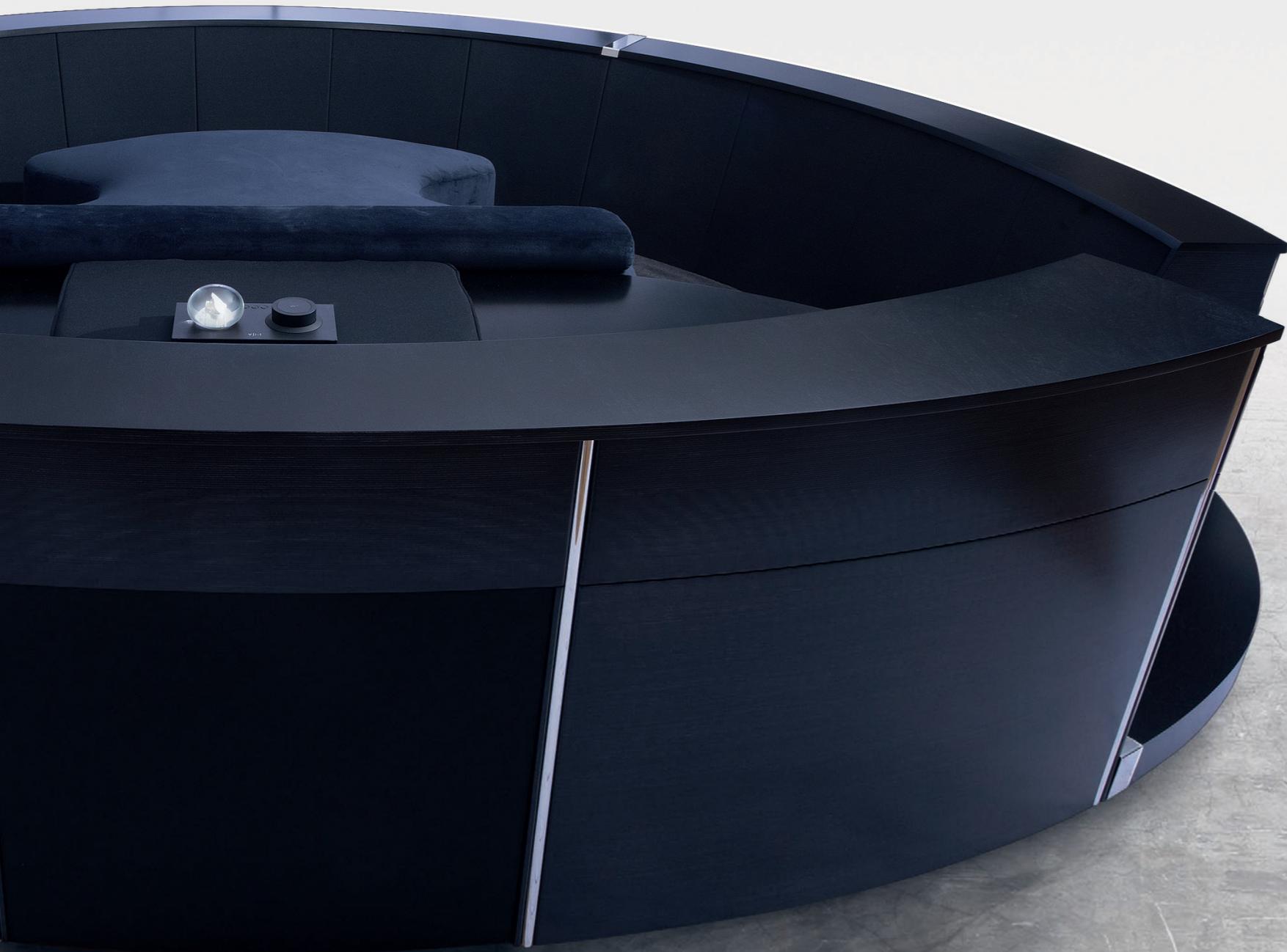
This version of Island offers a two or three-seater, ergonomically-designed sofa specifically created to ensure that you enjoy every minute of music and film. Alone or in company, SOFA brings you the ultimate in personal entertainment.



FOCUS CONCEPT

Being a hard-working professional shouldn't stop you being passionate about music! With FOCUS, add pleasure to business by ensuring your working hours are accompanied by your favourite musical pieces.





SPECIFICATIONS

23 MONITOR SPEAKERS

In its fullest configuration, Island is equipped with thirteen front speakers, five rear speakers and five overhead speakers, all supplied with ultra-linear transducers that offer extraordinary performance for a faultless listening experience. The axial symmetry technology favoured by recording studios has been perfected by L-ISA engineers for live concert dynamics, guaranteeing transparent and precise listening. The overall wavefront emitted through the speakers is designed to give a sense of perfect harmony, allowing you to capture every individual detail without any loss in the coherence of the whole.

2 CONCERT SUBWOOFERS

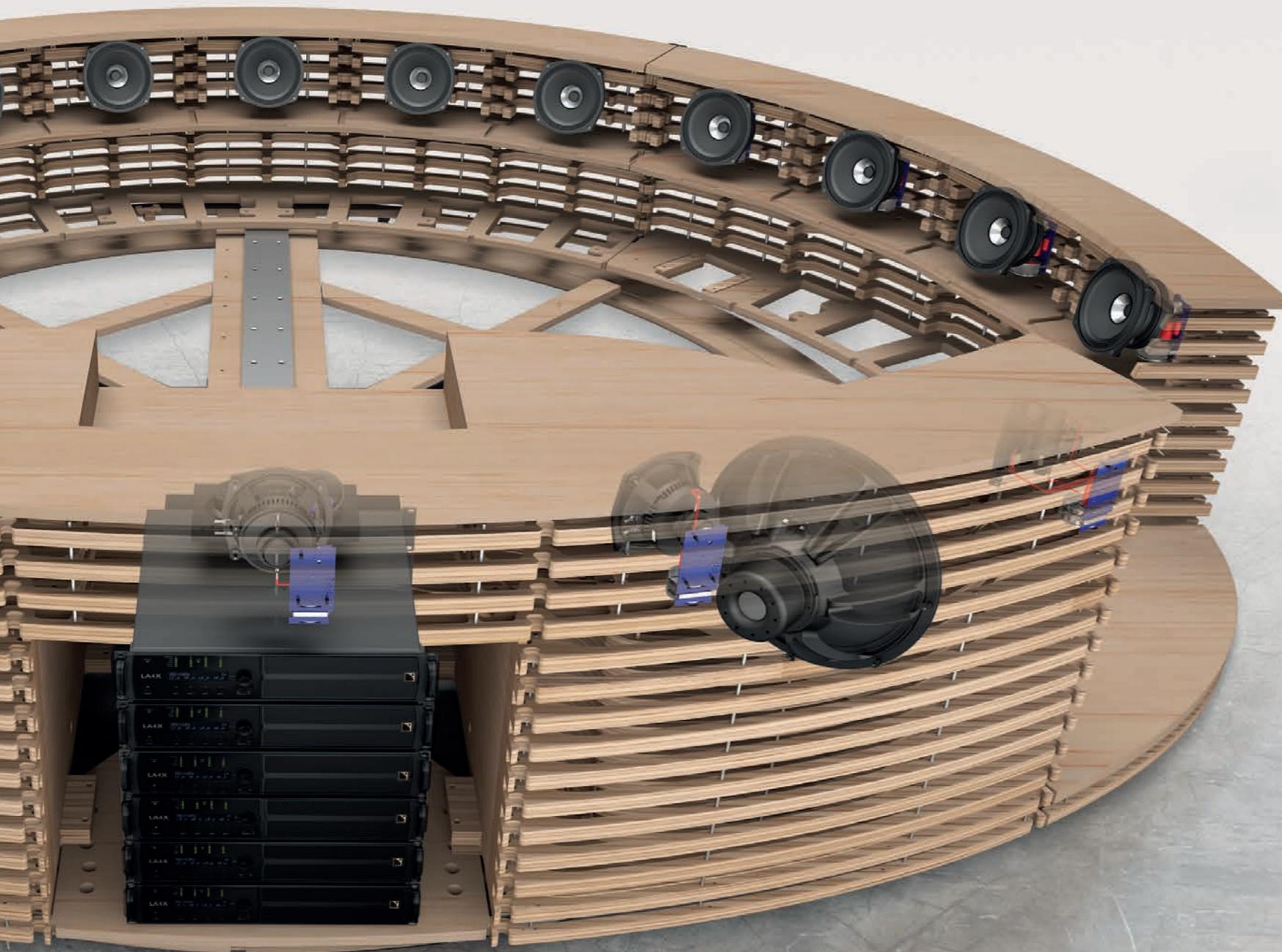
The two subwoofers, located at the rear of Island, are equipped with spectacular transducers set in an ultra-rigid cabinet crafted in beech. Two gigantic laminar vents extend the playback of the lowest frequencies into the infra-low range without distortion. Below 20 Hz, the vibrations palpable through Island add a physical feeling of elation, putting you at the centre of the action.

24 POWER AMPLIFIERS

The L-ISA-certified Player sends the digital audio signals to control circuits located at the heads of the 24 amplifiers, each of which delivers 1 kW of power. The uncompressed audio signals retain their full sonic transparency all the way from their digital emission through to their restitution by the transducers in a sophisticated electronic chain that has already demonstrated its effectiveness in the professional audio sector. Professional-grade safety switches cut in automatically to protect the electronics from overloading while six independent switch-mode power supplies with power factor correction circuits ensure a stable supply.

THE TECHNOLOGICAL HEART OF ISLAND

At the heart of your unit lies the multi-channel L-ISA Player, the ultimate digital control centre for audio content, which stores and protects your dedicated recordings. It connects easily to external media to play audio files, Blu-ray discs, CDs or streaming content, using the most advanced upmixing solutions and can be controlled via the Bubble Deck or via an app on your tablet or smartphone.



ANALOG AND DIGITAL AUDIO

Amplification and power supply

24 high efficiency class-D amplification channels (including high-level zone)

1000 W per channel with all channels driven for more than 200 ms

6 independent universal switched mode power supplies (100 - 240 V) with PFC

Frequency response:
20 Hz - 20 kHz, ± 0.25 dB at 8 Ω

DSP engine

32 bit floating point processing,
96 kHz sampling rate

IIR and FIR EQ algorithms for optimised linear phase and improved impulse response

Audio specifications

AVB and AES/EBU inputs

Maximum input level:
+22 dBu (balanced, THD 1%)

24-bit / 96 kHz cascaded A/D converters, 130 dB dynamic range

Output dynamic range:
110 dB (20 Hz - 20 kHz, A-weighted)

Channel separation: >90 dB

Control and protection

L-DRIVE algorithm for speaker excursion and voice-coil temperature real-time control

Load monitoring

Dual-port Ethernet card for control and monitoring from LA Network Manager

CRESTRON® and EXTRON® control modules

SPEAKER SYSTEM

Frontal speakers

Axisymmetric 100° directivity pattern

60 Hz - 20 kHz calibrated bandwidth

117 dB RMS / 129 dB peak maximum SPL⁽¹⁾

LF: 1 x 8" bass-reflex design

HF: 1 x 1.5" neodymium compression driver

Rear speakers

Axisymmetric 100° directivity pattern

60 Hz - 20 kHz calibrated bandwidth

112 dB RMS / 124 dB peak maximum SPL⁽¹⁾

LF: 1 x 6.5" bass-reflex design

HF: 1 x 1" neodymium compression driver

(1) Peak level at 1 m under free field conditions using 12 dB crest factor pink noise.
(2) Peak level at 1 m under half space conditions using 12 dB crest factor pink noise.

BUBBLE DECK

Bubbles activation and playback control (play / pause, previous, next)

Charging station for wireless volume remote

Ethernet communication with L-ISA Player

Wireless communication (Bluetooth) with volume remote

Placement options: Island, table-top

Dimensions: 255 mm x 134 mm x 22.5 mm

Connections: 1 x RJ45

Power: power over Ethernet

Subwoofers

15 Hz - 150 Hz usable bandwidth

126 dB RMS / 138 dB peak maximum SPL⁽²⁾

1 x 18" neodymium transducer

Bass-reflex design with laminar vents

System

13 frontal speakers with 15° angular step over 180° front

5 rear speakers with 30° angular step over 180° rear

2 subwoofers on rear side

15 Hz - 20 kHz calibrated bandwidth

128 dB RMS / 140 dB peak maximum SPL at sweetspot

20 dB LF contour

20 dB acoustic rejection outside installation

L-ISA PLAYER

High Resolution Audio - 24-bit / 96 kHz

24 digital output channels

Data encryption of all content

Scalable number of analogue or digital audio inputs for third party content

Control options: Bubble Deck, L-ISA iPad App, A/V control systems

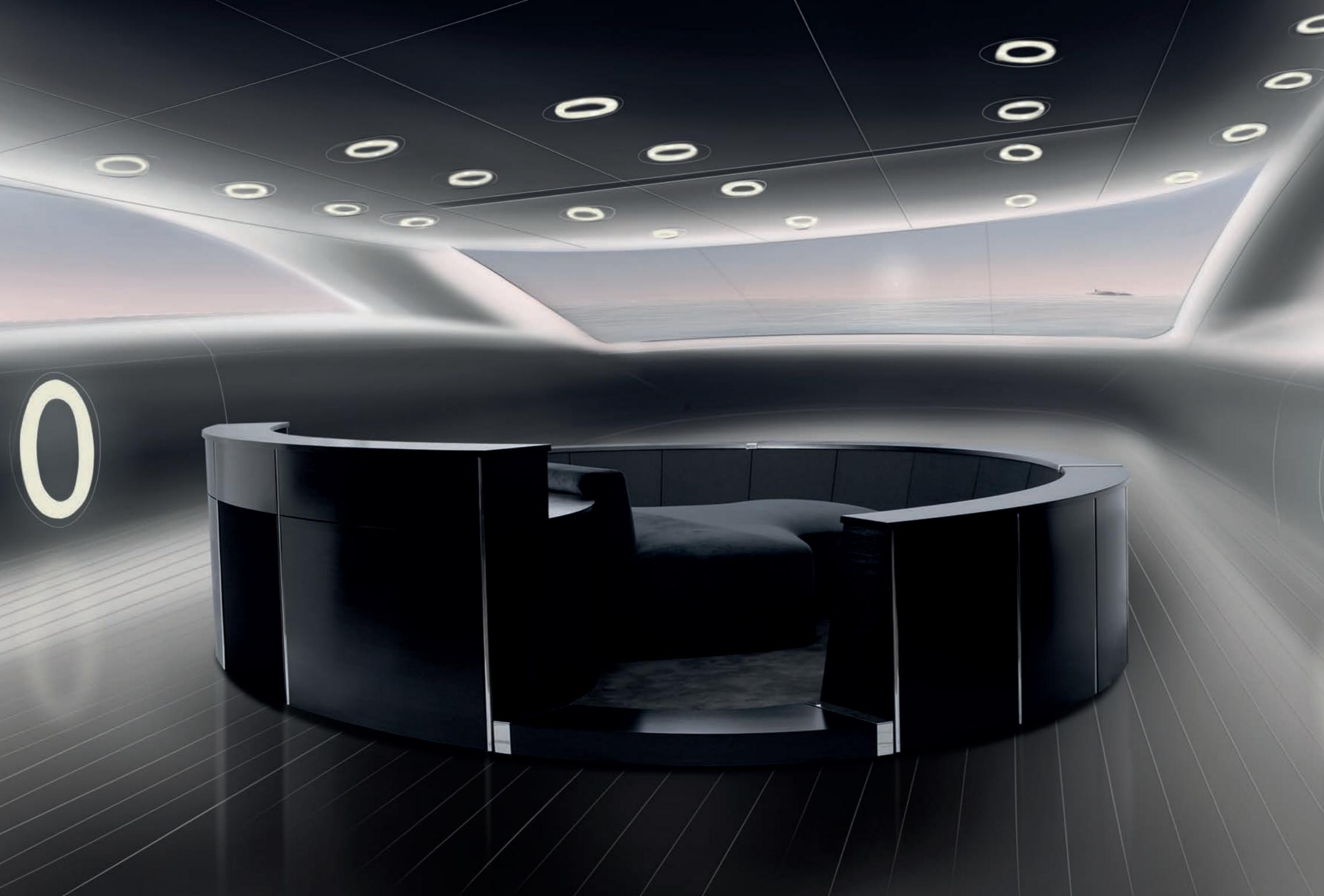
WIRELESS VOLUME REMOTE

Volume and mute control, with integrated display

Wireless communication (Bluetooth) with Bubble Deck

Dimensions: 90 mm x 40.5 mm (diameter) x (height)

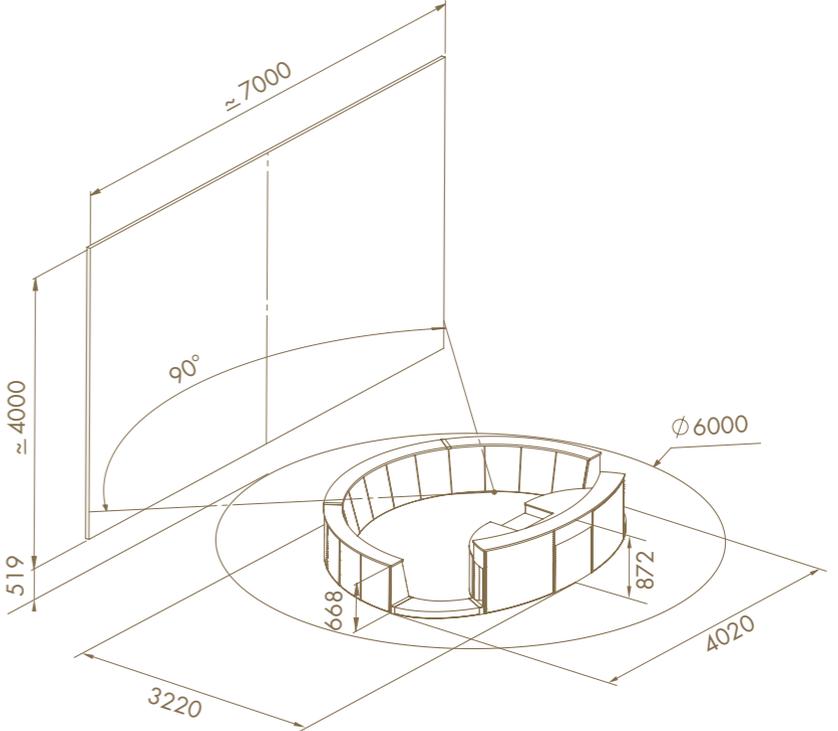
Power: battery-powered (inductive charging from Bubble Deck)



THE INSTALLATION

Sleek and versatile, Island is a luxurious addition to any room - or even to a super-yacht. Requiring only mains power and a network connection, it is a complete and standalone unit that is ready for immediate operation.

Both the audio equipment and its cladding rest on a solid frame which pivots around a central axis at the touch of a button on the rear shelf. Measuring 4 m by 3.2 m, Island requires a minimum of 20 m² of level floor space in a room of at least 50 m² in order to provide ideal listening and viewing conditions.





HERITAGE

The L-ISA protocol is the outcome of thirty years of research and innovation at L-Acoustics, the professional audio company founded by Dr. Christian Heil in 1984, which rapidly gained international renown for its scientific acumen and the quality of its technological innovations.

L-Acoustics' patents have contributed to the exponential improvements in live sound in recent years, the most significant being the invention of the line source array. Since 1992, line source has dominated top-end sound for all of the major live shows around the world, while L-Acoustics systems today equip thousands of prestigious venues in almost eighty countries.

The L-ISA protocol takes L-Acoustics' vision further by offering multidimensional sound design solutions for shows and private installations. Since 2011, L-Acoustics teams have worked extensively on creative sound projects drawing upon scientific, industrial and application-driven expertise to generate innovative solutions for live entertainment and artistic creation, as well as for residential and cultural installations.

For more information on Island or on other products based on the L-ISA immersive sound protocol,
please contact us at info@lisa-immersive.com.

L-ISA

Immersive Sound Art

www.lisa-immersive.com

