

THE CULTURE OF SOUND



**KALEA
MONOLITH**



LYRAVOX

HAMBURG

CHALLENGING THE STATE OF THE ART, REGARDLESS OF ITS SIZE

KALEA MONOLITH, despite being the most compact model of our top range, fully represents our signature series' radical concept: choosing the word's finest drivers, enclosing them in an acoustically ideal cabinet, and leveraging this perfect hardware with loss-free / integrated / matched / perfectly tuneable electronics of the highest grade. This combination expands the acoustic transduction capabilities of the loudspeaker system, and it offers the indispensable possibility to fine-tune the system to the listening room and to the demands of the listener. The result is an unrivalled reproduction performance delivering formerly unheard levels of realism, excitement and musical beauty.

PRACTICAL FORMAT

KALEA MONOLITH is large enough to transfer the full scale of any type of music into listening rooms of even generous dimensions. In terms of membrane size, speaker excursion potential and amplification power it exploits the full potential of audio at home, with live-like dynamics and stage size. The Accuton AS bass drivers offer a bass performance beyond their physical size, so that additional subwoofers or bass towers never become necessary.

WORLD CLASS TRANSDUCERS

The driver hardware of KALEA exceeds the standards of even the priciest contenders in her weight class. The driver configuration reveals the consequent employment of German specialist manufacturer Accuton's premier CELL® range of ceramic, crystalid® and diamond diaphragm drivers. These are designed to act acoustically uniform across the whole frequency range, resulting in an outstandingly coherent musical picture. Each of the drivers can be regarded as the finest possible hardware of its type, including the all new CL25



CRYSTALID® tweeters. The AS type bass units are improved versions made to match the special demands of Lyravox. No other type of bass driver can produce a comparably controlled, defined and powerful sonic reproduction.

SOLID STONE CABINET

The importance of the acoustic properties of a loudspeaker's cabinet cannot be overestimated. We chose a manmade cast mineralic stone that is a) extremely heavy b) hardly resonant c) super effective in terms of damping noise (from inside the enclosure). These combined properties are the requirement for the high-end transducers to perform at their best. The resulting sonic improvement over traditional cabinet materials is a music reproduction free from resonances that normally dirtify the sound. Hearing it for the first time is a revelation. To reduce any possible distortion from floor resonance, KALEA is equipped with integrated elastomere decoupling feet.



LOSSLESS DIRECT DRIVE

All Lyravox loudspeaker systems are integrated designs with the electronics being part of the system: respecting the fact that the transducer is the actual source of the sound, each of them has its own customized amplifier with no physical crossover in the way of the signal. Those 4 amplifiers per speaker are each being fed by the preamp with a dedicated signal for perfect frequency handover, time alignment and EQing. This is the finest and purest form of signal flow and driver control in a loudspeaker. With all electronics inside the speaker, there is also no loss from cables, interfaces and potential component mismatches. The integrated amplifiers of KALEA are from the 5th generation of the famous NCORE® Family.



ADAPTATION & FINE TUNING

Roughly half of the extent to which an audio system performs at high-end standards depends on the listening room. This relates to a) the sonic properties of the room itself (echoes, resonances and modes that bend the frequency range and dirtify the reproduction, b) the interaction of an audio system with the room. To account for this, a loudspeaker system must by design be able to compensate shortcomings of a listening room and provide adaptability to the same. Without this feature, the full potential of a high-end audio system cannot be exploited. Furthermore, the same technology allows for a fine tuning of the tonality and acoustical energy along the frequency spectrum to perfectly match the preferences of the owner.

SUPERIOR SOUND

A single well-made recording of a grand symphony will reveal the additional dimensions that KALEA MONOLITH adds to the discipline of high end audio reproduction: powerful deep octaves that shake the room but remain stable, defined, differentiated and structured. Full separation and clarity for all instruments at all times. A large acoustic picture beyond the borders of the speakers with perfect sonic overview in all dimensions. Fully coherent acoustics. Magically natural tones, sounds and textures. A breathing and living orchestra. Full acoustic 'visibility' of the air surrounding the instruments and of the dimensions of the concert hall. And finally, no more hints of an electronic reproduction. A music lover's dream come true.





HANDMADE IN HAMBURG

KALEA MONOLITH is individually handmade, tested and tuned in our Hamburg manufactory. Its mineral stone enclosures are individually handcrafted in our Hamburg factory using a specially perfected process. The so called K-material is chemically welded to itself, creating a monolithic block. Our suppliers are selected specialists from Germany and Europe. We are able and happy to implement individual customer requests of all kinds.

TECHNICAL SPECIFICATIONS

Concept:

Dynamic 4-way active system with lossless internal electronic crossover (in the form of a 4-channel signal processing pre-amplifier) feeding 4 power amp channels per side to drive all transducer groups individually ('quad-amping').

Recommended Room Size:

from 30 m²

Recommended Listening Distance:

from 3 m

Recommended Rear Wall Distance:

Minimum 0,6 m, better 0,8 m or more

Typical Frequency Response:

18 - 34.000 Hz (120.000 Hz with BD25)

Enclosure:

Triple-segment housing made of solid cast mineral stone, 118 l total volume. Internal reinforcements made of complementary material / multi-component sound chamber insulation / internal acoustic absorbers. Finished in pure white, supersmooth hand-ground surface. Decoupling feet integrated into the speaker base.

Dimensions:

32,5 x 155 x 51 cm (W x H x D), Base 45 x 51 cm (W x D)

Weight:

ca. 155 kg

Transducers:

Per Speaker:

Accuton® Cell® inverted dome tweeter CL25 pure crystalid® diaphragm, 2 x Accuton® Cell® C90-724 midrange inverted dome ceramic diaphragm, 1 x Accuton® AS 190-255 sandwich membrane long throw bass driver, 1 x Accuton® AS 250-555 sandwich membrane long throw bass driver

Electronics:

Internal multichannel pre-amplifier with high-performance DSP core for lossless signal processing/transfer. Remote control for all functions. Integrated power amplification based on 5th Generation Hypex® NCore® amplification with 2 x 500w / 2 x 250w power rating. OLED display for volume / source / sound preset / EQ status.

Input Interfaces:

AES digital XLR
SPDIF digital RCA
Toslink digital fiber optic
XLR analog balanced
RCA analog ('Cinch')

Acoustical Customizing Option:

Integrated calibration and adjustment option, with up to 3 possible recallable sound presets (for specific listening situations / source devices / recording qualities, etc.).

Included Items:

Remote control and system cabling (left/right speaker interconnect cable).

Warranty (EU):

5 years with on-site service, 12-year spare parts availability guarantee.

Product Variants:

KALEA DIAMOND EDITION with pure diamond diaphragm tweeter Accuton® BD25 and upgraded Accuton® C90-726 midrange drivers.



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LYRAVOX
HAMBURG

Lyravox Gerätemanufaktur GmbH & Co. KG | Jaffestraße 6 | 21109 Hamburg, Germany
Phone +49 - 40 - 32089798 - 0 | Fax +49 - 40 - 32089798 - 9
info@lyravox.de | www.lyravox.com