

# THE CULTURE OF SOUND



KARLMANN  
MONOLITH

**NEW**



LURAVOX  
HAMBURG

# KARLMANN MONOLITH

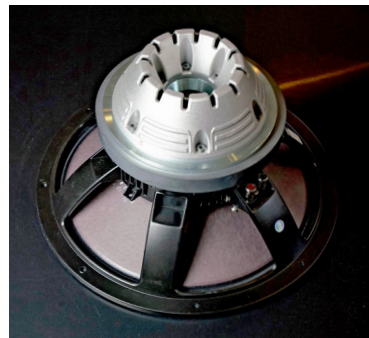
**KARLMANN transforms listening to music into a personal festival. He delivers an extra portion of everything that makes music enjoyable. Drawing from full potential he grabs the listener by the senses. It is no longer possible to just listen to the music - it always becomes an experience. Anyone who experiences this acoustic richness will furthermore want to listen in no other way.**

**Sonic luxury has many facets: for some it is finely woven, airy, magical spherical sounds. For others, it is the gripping realism of perfect clarity and definition, or the fascination of the so rarely achieved three-dimensional sonic imaging. For still others, it is the majestic acoustical size and dynamics of a reproduction. Until now, different and sometimes exotic loudspeaker concepts were needed to realize each of these qualities without compromise. KARLMANN finally combines all of them in one elegant, home-friendly system.**



## BASS FOUNDATION, DYNAMICS, ACOUSTIC EXPANSION, SOVEREIGNTY

When you think of bass, you often think of 15 inch woofers. They play in a league of their own. However, they were so far hardly civilized enough for serious audiophile applications. Until the Italian manufacturer 18Sound currently reinvented them in high-end quality - with a double motor, quadruple voice coil and unprecedented measurement values. KARLMANN had now become possible.



He honors the king of bass drivers with a vibration-free cabinet made of solid mineral cast stone ('K-Material'), which is double-walled and in which sound chamber resonances are neatly eliminated by Helmholtz absorbers instead of having to be suppressed later in the crossover. This concept also allows the minimization of the use of wideband absorbing damping wool, which would otherwise rob the woofer of valuable energy and liveliness.

Regardless of this, the bass driver benefits from its own 500 w NCore® amplifier output stage in Class D, the undisputed best drive technology for perfectly controlled bass. The Lyravox hallmark of absent physical crossovers makes this direct-driven woofer even more loss-free and responsive, operating with exceptional ease.

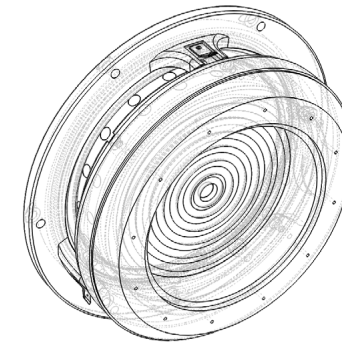
Another contributor to KARLMANN's cinematic sound is its wide baffle for the midrange, as it gives it a lively immediacy (in terms of physics, it is a flat horn). The tweeter is waveguide-loaded so that all three drivers can transport the same amount of acoustic energy. The expansion of the acoustical stage is enhanced by an ambience sound concept developed especially for KARLMANN.



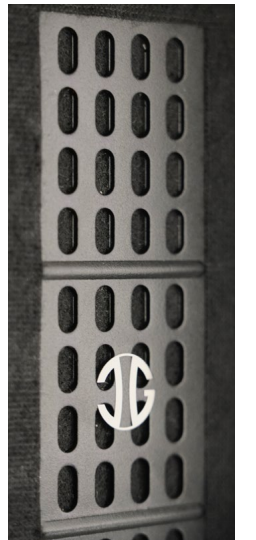
It has been significantly expanded compared to previous Lyravox models: instead of an upward-facing AMT supertweeter, KARLMANN houses dipole magnetostats at the rear which generate a panoramic and immersive sound dispersion.

## DEFINITION, REALISM AND TRANSPARENCY

Lyravox is known for exceptional acoustic resolution and transparency throughout the whole acoustic spectrum. This is based on the use of the incomparable ceramic diaphragm transducers from Accuton®, all of which are driven by our integrated electronics without physical crossovers. KARLMANN features the most sophisticated drivers of this ceramic range, which are among the world's best mid-/highrange drivers. They are borrowed from Lyravox' flagship model KARL and are used here for the first time in a resonance-free mineral cast stone cabinet.



Components and internal cabling of the highest quality (OCC ultra-pure copper in various cross-sections) complete the package. To support the resonance control of the overall system, KARLMANN features integrated TITAN THEIS® isolators from Isoacoustics®, the leading manufacturer of loudspeaker decouplers.

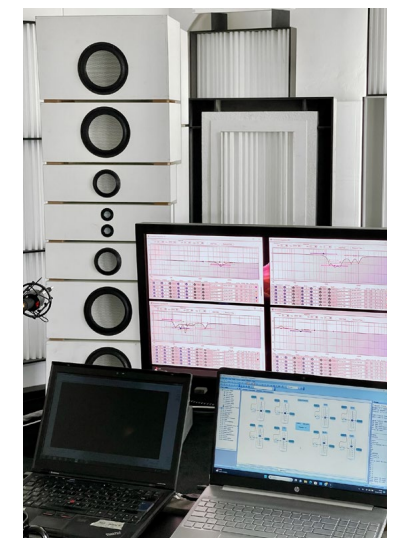


## KEY COMPONENT EXPERTISE

KARLMANN's uncompromising hardware, however, only becomes an audiophile masterpiece through software: his heart is a high-resolution signal processor that controls the crossover, equalization and time-alignment of the exceptionally precise transducers with far greater definition and control than any physical crossover. The electromechanical potential of the high end drivers can only be exploited through a finely tuned, perfect interplay of dozens of electric parameters. Their understanding is the result of years of research, testing and learning. KARLMANN is the culmination of more than 10 years of Lyravox' experience in developing electronically driven speaker systems.

## INTEGRATED PRE-AMPLIFIER

KARLMANN allows the direct connection of up to five source devices. It has three digital and two analog inputs. The integrated preamp with OLED display is controlled via a remote control, including source selection, volume and sound profile selection.







## CUSTOM TAILORED SOUND

Since the listening room has a significant influence on the sound, it is necessary to adapt the loudspeaker to the room acoustics in order to achieve the best sonic results. This is especially true where acoustical room treatment - as employed in recording studios - is out of question. The room adaptability feature is integrated in all Lyravox loudspeaker systems, it allows the finetuning of the system on a professional level - highly recommended!

## HANDMADE IN HAMBURG

The cast mineral stone housing of KARLMANN is manufactured individually by hand in our Hamburg factory using a specially developed process. In contrast to classic housing construction from panels, our K-material is chemically welded to itself, creating a monolithic block. The surface is then finely sanded by hand and, if desired, polished to a marble sheen. Apart from that, we are happy to implement individual customer requests of all kinds.

“...sounds outstandingly good!”

Peter Bauer, premiere guest

### TECHNICAL INFORMATION

**Concept:**

Dynamic, 3-way plus backside ambience planar tweeter, ported bass, triple fully active class D amplification with DSP signal processing and integrated pre-stage. Main/secondary configuration with digital interlink.

**Recommended Room Size:**

25 - 150 m<sup>2</sup> (assuming normal living space height up to 2.8 m)

**Recommended Listening Distance:**

2 - 6 m

**Recommended Distance to Rear Wall:**

At least 0.6 m (with acoustical room adjustment from 0.4 m)

**Frequency Response:**

20 - 42.000 Hz (room dependent)

**Enclosure:**

Housing made of solid mineral cast stone, 105 l volume, additional inner walls, reinforcements made of complementary material, multi-component sound chamber insulation, internal Helmholtz absorbers in walls and base. Speaker enclosure finish: pure white, honed or polished (at an extra charge).

**Dimensions:**

45 cm x 115 cm x 45 cm (W x H x D), baseplate dimensions 48 x 48 cm.

**Weight:**

115 kg

**Transducers:**

Front tweeter Accuton® Cell® C30 solic ceramic 30mm inverted dome in waveguide.

Midrange driver Accuton® C168-990 solic ceramic dome 7“.

Woofer 18Sound® 15“ Tetra-Coil.

Diffuse field tweeter magnetostatic planar driver GRS 8“.

**Electronics:**

Per speaker 2 x 500 w and 1 x 100 w amplifiers NCore® 4th generation. Multi-channel Hi-Res DSP with integrated, remote controllable preamplifier for digital and analog sources (firmware updateable). Alphanumeric OLED front display.

**Internal Wiring:**

High-purity copper OCC in matching diameters for each channel.

**Input Interfaces:**

AES digital XLR (via main speaker)  
SPDIF digital RCA coax (via main speaker)  
Toslink digital fiber optic (via main speaker)  
XLR analog balanced (each right / left)  
RCA analog („Cinch“) (each right / left)

**Acoustical Customizing:**

Up to three custom sound presets after expert calibration in the listening room (option at extra cost). E.g. additional presets for older sources, historical recordings or cinematic sound with virtual center.

**Included Items:**

Aluminum remote control for controlling all functions incl. source selection and sound presets; 2 x power cord; 4,5 m Lyra-Link SPDIF interlink cable main / secondary speakers; dust covers; user manual.

**Warranty (EU):**

3 years on electronics, 5 years on mechanics (speaker drivers), 10 years spare parts availability. Within Europe, on-site service is mostly possible.

**Product Variants:**

KARLMANN D with solid diamond dome tweeter BD 30.

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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