

THE CULTURE OF SOUND



KARLINA II



LYRAVOX
HAMBURG

PROGRESS TO MAKE YOU HAPPY

KARLINA II represents an optimum in several respects: firstly, never before have so many loudspeakers been packed into such a compact housing. Thanks to her 10-inch long-throw subwoofer (new 2024) at the rear, she has the necessary cone area for reproducing large orchestras and realistic dynamics. As a fully integrated speaker system, she also contains almost all the audio electronics. And she sets standards in her price range in terms of the quality of her components: both the Accuton® full-ceramic drivers and the Scan Speak® aluminum woofer as well as the new, improved AMT super tweeter are among the jewels of their genre. The electronics are the same as those of KARLINA's larger siblings, and she also has a multi-segment housing with a stone inner skeleton. The sum of these qualities has not only earned her numerous awards, but also makes her the ideal choice for many living and music rooms as a well-proportioned furnishing object.



CERAMIC DIAPHRAGMS

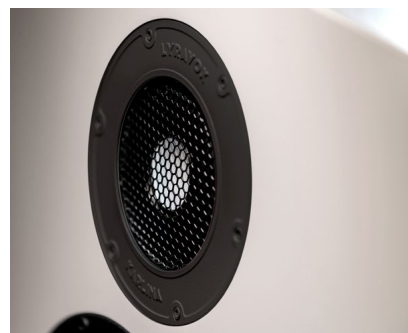
The unique all-ceramic diaphragm speaker drivers from the German pioneer Accuton® are mechanically superior to traditional designs, resulting in an unrivaled musical transmission potential. Our digitally controlled direct drive concept is the only technology to fully exploit this potential. The Accuton diaphragms are the only membranes that do not bend when excited by the audio signal and therefore reproduce sound with superior precision. They also exhibit significantly less distortion than conventional diaphragms and are less reverberant. And then they are also 'faster', e.g. Accuton tweeters are the only dome tweeters that have no transient delay - and this benefit is clearly audible.



INTEGRATED ELECTRONICS FOR LESS LOSS

Like all Lyravox designs, KARLINA II is a fully active integrated loudspeaker system with digital signal processing and chassis control. The subwoofer,

bass-midrange driver and tweeter are each driven directly by their own powerful NCore® amplifier, eliminating the need for a conventional crossover - which would inevitably be detrimental to sound quality. The high-resolution DSP (Digital Signal Processor) also controls frequency transitions, phase, time offset and tonal equalization many times more precisely than physical crossovers. This system also allows a finely tuned electronic adaptation to the listening room.



INTERNAL PRE-STAGE

KARLINA II can be fed through an external preamplifier, but preferably allows direct connection of 3 digital and 2 analog source devices. This allows for a particularly low-loss overall system. The integrated preamplifier with OLED display (new in 2024) is controlled via a remote control, including source selection, volume and sound profile selection.

THE LYRAVOX FORMULA

The key to sound is the best possible transducers. Driven without loss by system-integrated, tuned power amplifiers and individually controlled by a finely adjusted signal, they unfold the highest sound potential in combination with high-quality cabinets and careful acoustics.

„In loudspeaker development, DSP active technology puts us in a position where we can now maximize musical expressiveness instead of minimizing acoustic errors.“

Jens Wietschorke,
Founder and Chief Developer of Lyravox

DIFFUSE FIELD EXPANSION

An additional AMT super tweeter in the top of the cabinet generates an extended so-called high-frequency diffuse field (indirect sound in the room). This corresponds to the real music event, in which the sound is distributed around the instruments throughout the room and not directionally towards the listener (as with conventional loudspeakers). At the same time, the additional tweeter extends the dispersion limits of the main tweeter and thus enlarges the stereo listening zone.



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

KARLINA II is individually manufactured in our Hamburg factory with meticulous attention to detail. The cabinets are made by a renowned cabinetmaker in the Hanseatic city, and we leave the complex multi-layer nano-lacquering to only the two best lacquers in house. Thus, individual lacquering (RAL or NCS color shades) is no problem. After the assembly of the loudspeaker drivers, which are always selected in pairs, and the electronic modules, a comprehensive function test is carried out, followed by a 48-hour play-in process, exclusively with real music programming.



„First-class sound quality. If you like precise, crisp, finely transparent sound with powerful, very deep but always clean bass, you'll have trouble finding better in this price range.“

Holger Biermann, Lowbeats

„The sound of this high-end loudspeaker is sensationally clear. ...impresses beyond the clarity with fabulous dynamics, a powerfully contoured bass and a wonderful spatial imaging.“

Volker Frech, lite Magazin

„Not only the individual customization, but also the absolutely spot-on tuning of the components employed mean that this speaker is hard to beat. ...as an all-inclusive package, the price-performance level is unbeatable.“

Johannes Strohm, Audio Test Magazin

„One of the most audiophile active speakers ever.“

Malte Ruhnke, Stereoplay

TECHNICAL INFORMATION

Concept:

Dynamic, 3-way plus ambience tweeter, rear subwoofer with downfiring ported bass, triple fully active class D amplification with DSP signal processing. Master/secondary configuration with digital interlink.

Recommended Room Size:

14 - 70 m² (assuming normal living space height up to 2.8 m)

Recommended Listening Distance:

2 - 5 m

Recommended Rear Wall Distance:

0.6 - 2 m (with acoustical room adjustment from 0.3 m)

Typical Frequency Response:

25 - 28.000 Hz (room dependent)

Enclosure:

Dual-segment cabinet from extra high density wood composite. Internal K-Material (mineral stone) H-Bracing. Multi-material internal damping. Valchromat base plate (black oiled) with polymer floor decouplers. Nano-finished multi-layer paint coating pure white NCS-S 0500N, ultrasmooth matte. Custom paintwork available in all RAL or NCS colour (at extra cost).

Dimensions:

36 x 108 x 19 cm (W x H x D), baseplate 34 cm deep

Weight:

ca. 30 kg

Transducers:

Front tweeter Accuton® ceramic 30 mm neodymium.

Midbass Accuton® C173 7"

Subwoofer ScanSpeak® long-throw 26 W aluminium 10"
(new 2024)

Diffuse field tweeter AMT L2 (new 2024)

Electronics:

Per speaker 2 x 250 w and 1 x 100 w amplifiers NCore® 3rd generation. Multi-channel Hi-Res DSP with integrated, remote controllable preamplifier for digital and analog sources (firmware updateable). Alphanumeric OLED front display (new 2024).

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.

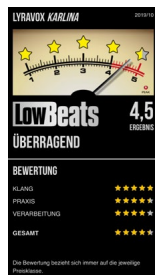
Warranty (EU):

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:

KARLINA II ANALOG with analog inputs only, for operation with external preamplifiers, without remote control and interlink cable.

Errors and technical changes reserved. Accuton, NCore, Scan Speak and Lyravox are registered trademarks.



LYRAVOX
HAMBURG

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