

THE CULTURE OF SOUND

KARLOS



LYRAVOX
HAMBURG

TECHNOLOGY FOR CONNOISSEURS

KARLOS is a product for people who understand music as a means of enjoyment. Compared with even the best loudspeaker systems available today, it transmits almost without compromise the emotionally decisive content of the musical information that a recording carries within itself. Conversely, it never runs the risk of dissecting or analytically reproducing the music or the recording. In its price range, it fully exploits the advantages of the modern, lossless active concept and the mechanical qualities of its components. Here it delivers the maximum in resolution, spatial information, realistic dynamics, vocal articulation, depth and, last but not least, acoustic grandeur. Add to that drive, pace and joy of playing as if it were ,live‘. Thanks to its iconic appearance and the invisible integration of the electronics, it also enriches the interior design.



THE CLASSIC TWO-WAY IN PURE CULTURE

KARLOS is our contemporary interpretation of the classic ,full-sized‘ two-way system. This is traditionally characterized by homogeneous and coherent reproduction, but at the same time can inspire with dynamics and a larger image size. In the context of a digital-fully-active, lossless overall system like Karlos, these aspects can be enhanced, supplemented by perfect spatiality, finest decay and never-before-heard control.



UNIQUE MECHANICS

KARLOS‘ secret is its transducers. The powerful heart of the sound is the aluminum cone ten-inch woofer from the traditional Danish manufacturer Scan Speak®. Deep and controlled in the bass and kicking without a hitch, it also sings clear and gripping as well as tonally rich in the midrange, thanks to a smart Lyravox modification. It also masters microdynamics and quiet articulation like no other.

A ceramic tweeter made especially for Lyravox by the Pulheim-based specialist Accuton® ensures world-class resolution, transient response and low distortion. Above all, thanks to a waveguide coupling, it forms a harmonic symbiosis with the woofer that is rarely found.

INTEGRATED ELECTRONICS FOR LOSSLESS SIGNALS



KARLOS is a fully active integrated loudspeaker system with digital signal processing and chassis control. The woofer and tweeter are each directly driven by their own power amplifier, eliminating the need for the sound-deteriorating conventional crossover. The high-resolution DSP (Digital Signal Processor) also controls frequency transitions, phase, time offset and tonal equalization many times more accurately than physical crossovers. KARLOS features 4th generation NCore® power amplifiers that drive the high-excursion transducers in a powerful yet controlled manner. Its integrated preamplifier,



which can be remotely controlled in all functions, allows direct connection of up to five source devices as an alternative to operating KARLOS with an external preamplifier. This allows for a particularly low-loss overall system.

DIFFUSE FIELD EXPANSION

An additional AMT super tweeter in the top of the cabinet is used to create an extended so-called high-frequency diffuse field (indirect sound in the room). This corresponds to the real music event, where the sound is distributed around the instruments in the whole space and not directionally towards the listener (as with conventional loudspeakers)



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

SOUND FROM THE CUSTOM TAILOR

Since the surrounding listening room has a significant influence on the sound result, it is necessary to adapt the loudspeaker to the room in order to achieve the best sonic results. This is especially true where room acoustic measures – as used in recording studios – are out of question. The adaptability is integrated in the Lyravox loudspeaker systems, the calibration is carried out as an expert service (for a flat fee) by Lyravox trained personnel.

HANDMADE IN HAMBURG

KARLOS is individually hand-made, tested and tuned in our Hamburg manufactory. Our suppliers are selected specialists from Germany and Europe. We are happy to implement individual customer requests of all kinds.



„With this loudspeaker, you would love to listen to music endlessly.“

Thomas Schmidt, Hifitest

„The basses push into the listening room with a precision and sovereignty that it is pure joy.
...Karlos puts you right in the middle of this sound spectacle. It's fantastic.“

Holger Biermann, LowBeats

„Very high-endy and balanced.“

Holger Barske, LP

„...sensitive and powerful... ...harmonious, cohesive and united in timing.
...velvety, coherent, to the point – and completely unstrained. A pleasure speaker!“

Andreas Günther, Audio

„Every delicate flute note, every shy guitar chord floats into space as if in a hologram.“

Wolfgang Tunze, FAZ

„...I can't recall ever experiencing passives that delivered comparable performance.“

Carsten Barnbeck, Fidelity

TECHNICAL INFORMATION

Concept:

Dynamic, 2 way plus diffuse field tweeter, downward ported enclosure, fully active 2 x Class D with DSP signal processing and integrated preamplifier. Master/secondary configuration with digital interlink.

Recommended Room Size:

12 - 40 m² (at normal room height bis 2,8 m)

Recommended Listening Distance:

2 - 5 m

Recommended Rear Wall Distance:

0,5 - 1,5 m (with acoustical room adjustment from 0,15 m)

Typical Frequency Response:

28 - 28.000 Hz (room dependent)

Enclosure:

High-mass MDF cabinet, partially doubled, purposefully stiffened, multi-component sound chamber insulation. Bass reflex at the bottom. Stand skids (screwed) made of tripod wood (ash), deep black oiled. Surface multi-layer nanocoating matt ultrasmooth (ring scratch-resistant, furniture quality) in pure white NCS-S 0500N. Individual RAL or NCS color shades at extra charge.

Dimensions:

40 x 70 x 18,5 cm (W x H x D), with stands 40 x 87,5 x 37 cm

Weight:

ca. 22 kg

Transducers:

Front tweeter Accuton® solic ceramic 30 mm neodym
Midbass ScanSpeak® 26W aluminum 10"
Diffuse Field Tweeter AMT L50

Electronics:

Per speaker 1 x 400 w and 1 x 100 w amplifiers NCore® 4th gene-

ration. Multi-channel Hi-Res DSP with integrated, remote controllable preamplifier for digital and analog sources (updateable).

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 3 custom sound presets after expert calibration in the listening room (option at extra cost). E.g. additional presets for older sources, historical recordings or cinema 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 connection cable main and secondary speakers; dust covers; user manual.

Warranty (EU):

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

Product Variants:

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

KARLOS MONOLITH with solid stone enclosure, Accuton® Cell® C25 tweeter, upgraded power supply, OLED front display.



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