

THE CULTURE OF SOUND



KARLINA



LYRAVOX
HAMBURG



A FEAST FOR THE SENSES

Sensory perception is an important aspect of our joy in life. The relevance of acoustic impressions on our sensual experience is often overlooked and only appreciated by connoisseurs. At the same time, we are barely conscious of how powerful our acoustic perception is. Audio technology was never truly capable to match this power. It's almost ironic that this technology just now - in the current age of acoustic 'fast food' with MP3, streaming, throwaway headphones, and shoe box sized plastic speakers - has advanced to live up to our human hearing. State-of-the-art recordings and perfected contemporary playback acoustics in combination with the music that truly moves us are the ingredients for an outright feast for the senses.

THE SPEAKER AS THE HEART OF MUSIC REPRODUCTION

The speaker - turning electric signals into audible sound waves - has always been the key component for any audio system. Whatever it is physically unable to reproduce, will remain unheard. Being the final link in the component chain of traditional audio systems, the speaker generally played a thankless part since the preceding components didn't account for its technical or sonic requirements. Furthermore, typical audio chains suffer from signal deterioration (jacks, cables, conversions, crossovers), incompatibilities between individual components and a decoupling of speakers from the amplifier through the passive crossover. Modern active speakers eliminate these shortcomings by integrating the signal processing, employing loudspeaker direct drive through multiple power amplifiers, and last but not least a lossless, super precise, and time aligned driver control via high-res DSP. In this configuration, the speaker finally arrives at the heart of the audio system.

HOLISTIC SYMBIOSIS VS. AUDIO CHAIN

The optimal musical enjoyment is only possible if the whole audio system takes up a subordinate role to the loudspeaker. We at Lyravox believe that the cabinet (shape, materials, geometry, insulation, acoustic details), the amplification (= the speaker motor), the signal processing and even the cabling need to be custom-tailored for each speaker. The result is an audiophile symbiosis that creates maximum musical reproduction performance. Employing the speaker's internal DSP, this symbiotic system can even include the listening room the second most important part of the audio system. With the adaptation of the perfected speaker to the acoustics of the listening room, the audio system becomes fully functional.

K STANDS FOR KERAMIK, ACTIFIED

Drivers featured in the KARL series by Lyravox use super rigid membranes made out of ceramic, diamond, and aluminum. Ceramic drivers are the only drivers with a piston-like movement (without flexing), conforming to a speaker's acoustic ideal. This leads to an increased transmission capacity and a sound that is much clearer and filled with fine nuances. Micro-dynamics, timing, articulation and transparency are taken to the next level. Due to the material's natural resonances, hard membrane drivers can only be utilised without compromise in active systems, where they leverage the advantages of the direct drive technology. This makes them the first choice for the new incarnations of high end audio systems. The world's only manufacturer of real (pure) ceramic drivers is the Pulheim-based German manufacturer Accuton®. We at Lyravox are extremely proud to partner with Accuton® for the KARL series, creating the world's first fully active speaker series featuring ceramic drivers.

THE LYRAVOX PRINCIPLE

Lyravox goes further than others in the creation of the ideal active speaker: every system starts with the choice of the very best available driver for a given purpose. It needs to have ideal mechanical-physical properties, to harmonize with the other components and to have strong inherent musical qualities. Many manufacturers don't cultivate this amount of insight into the inner workings of a speaker, although this is where the secret to perfect sound is found. There are more than 100 technical criteria that define the acoustic performance of a speaker, and only very few of them are computable "on paper". Lyravox often discard spectacular new technologies that might sound ground-breaking in some respects, but only shine in single disciplines and don't really add to the overall speaker concept. In contrast, elaborate, matured and highly sophisticated speaker drivers are the hallmark of Lyravox products.



KARLINA, CONCERT HALL SIMULATOR

KARLINA is a fully active 3-way system using ceramic drivers on the front for the main frequency ranges while the rearward Scan Speak sub-woofer is made from aluminum. With a width of only 36 cm, KARLINA is the most slender and interior-friendly ceramic based active speaker on the market. Her technical benefits are not impaired by her form factor: her high resolution and precise sound reproduction are on par with world-class studio monitors. At the same time, she is capable of producing a rich room acoustic that is unmatched by traditional speakers. The top firing AMT plays a big part in the overall acoustic composition, filling the whole room with treble information the same way a real life musical performance would do. On top of that, the AMT allows the speaker to sonically expand beyond its physical measurements. The power reserves in her mechanical and electrical components grant KARLINA an explosive dynamic that can easily handle rooms of up to 80 m². The two-segment cabinet design gives her the ability to combine the merits of studio monitors and floor-standing speakers. Together with the 30 mm ceramic driver - manufactured exclusively for Lyravox by Accuton® - KARLINA delivers a breath-taking and award-winning sound quality unheard of in her size and price range.



'KOMPLETT' OR 'PURE'

The KARLINA 'Pure' version is an active speaker with three digital (AES, SPDIF, Toslink) and two analogue (XLR, Cinch) high-quality inputs. This model is the perfect companion for high-grade source devices from high tech digital streamers to sophisticated record players. The Auto Detect feature ensures that the correct input is selected automatically. KARLINA Pure also detects inactivity and automatically ends or re-enters Standby mode. The model KARLINA 'Komplett' (Complete) features an integrated high-end streamer with state-of-the-art capabilities and connection possibilities for USB, Bluetooth AptX or external digital and analogue sources. KARLINA Komplett is controlled intuitively via the Lyravox App or the supplied remote control with colour display. The latter allows the most intuitive operation of a modern, feature-loaded audio system possible. Both KARLINA models feature room adaptation EQ possibilities to perfectly match the room acoustics. The room adaptation EQ will be determined strictly manually, in a process of professional measurement and knowledgeable listening by skilled personnel.



User Interfaces of the 'Komplett' Version



„one of the most audiophile aktive speakers overall“

Malte Ruhnke, Stereoplay

SPECIFICATIONS

	DIMENSION/WEIGHT	COMPONENTS	INPUTS	
KARLINA Pure	36 x 108 x 19 cm (Baseplate 34 cm deep) ca. 29.5 kg	Tweeter Accuton® Ceramic 30 mm Midbass Accuton® C173 7" Backside Woofer ScanSpeak® 26W Aluminium 10" Tophiring Ambience Tweeter AMT50 6 Power Amps CLASS D 4 th Gen., 1200 W Total Power Hi-Res DSP-Module Infrared-Remote Control	Analog Balanced (XLR) Analog RCA (Cinch) Digital AES/EBU Digital SPDIF (Coax) Digital Optical Automatic Source Selection by Auto-Detect Automatic Wake up/Sleep	
	DIMENSION/WEIGHT	COMPONENTS	SOURCES	AUDIO FORMATS
KARLINA Komplett	36 x 108 x 19 cm (Baseplate 34 cm deep) ca. 29.5 kg	Tweeter Accuton® Ceramic 30 mm Midbass Accuton® C173 7" Backside Woofer ScanSpeak® 26W Aluminium 10" Tophiring Ambience Tweeter AMT50 AUDIVO HD-Streamer (Made in Germany) Lyravox® 3-Kern-/8-Kanal DSP-Modul 6 x 500w Pascal® S-PRO2 Class D Power Amps (per pair) CSR Bluetooth Apt-X® RF Remote Control	integrated: - USB-Stick via LAN/WLAN (802.11b, g, n): - Music Server - NAS - PC - DLNA-Sources via Internet: - Internet-Radio - Premium Services: TIDAL®, Qobuz® via Bluetooth (A2DP, AptX®): - Smartphone, Tablet, PC etc. external via cable: - analog in - digital in (SPDIF coax)	MP3 up to 320 kBit/s, VBR/CBR WAV, AIFF, PCM up to 192kHz/24Bit Int/32BitFloat FLA C up to 192 kHz/24 Bit Ogg Vorbis WMA (standard only; no Pro or Lossless) AAC/M4A, ALAC Gapless Playback at WAV, AIFF, PCM, FLAC, MP3



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