

K&Q Sound Genesis Loudspeaker Technologies

The Model 1 Full Range Monitor is a 3-way high dynamics, high efficiency planar loudspeaker.

The Model 1 uses a large 12-inch wide dispersion driver covering the mid range. It is augmented in the bass by two 15-inch woofers. In the treble, a small format 1-inch compression tweeter loading a wide dispersion horn takes over.

Feel live music at home: high dynamics, low power compression

Recreating a live performance in the home, duplicating the raw emotions felt with live music is our primary design objective for the Model 1. Listening tests show to achieve those goals, a speaker must be able to reproduce high sound pressure levels.

The Model 1 uses drivers with rated sensitivity between 98db to 108db. Excellent power compression is an area where the Model 1 equally excels. At 120+ watts input, the Model 1 is rated for 2.5db of power compression between 100 to 500 Hertz. It can deliver with ease sound levels in excess of 115+db. In contrast, electrostatic speakers and the majority of audiophile speakers struggle to reach 100db safely.

An open sound with a realistic ambience: planar speakers

Any great loudspeaker starts first with a great driver. And you must be able to hear this great driver at its full potential.

The vast majority of commercially available loudspeakers use a sealed or vented box design. Inherent with any box design architecture is the sonic coloration of the box itself as rearward sound waves are trapped inside the box. Acoustic energy is then converted into mechanical stored energy as the walls of the box become excited. A planar speaker does not suffer from box colorations. Planar speakers are renowned for their big and spacious sound, and for their ability to portray the recorded ambience accurately.

Better music in real rooms: wide dispersion

A loudspeaker with wide dispersion characteristics makes better sound in a real room. The soundstage gains depth, especially when the speakers are placed further away from the rear walls. The music presentation is more spacious, vocal timbre is more accurate, the stereo

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image is more solid.

The listening sweet spot is broader in wide dispersion speaker designs, and it can extend to the width of a sofa or the entire room. This makes the whole listening experience much more enjoyable as it can be shared with loved ones and friends.

The Model 1 uses wide dispersion mid driver and treble horn. Their dispersion characteristics are also matched for a smooth transition at the crossover point.

Natural harmonics and tones: paper cone

The Model 1 is designed to reproduced the natural tones of musical instruments and human voice, including human speech.

Vibrations of materials are at the heart of music creation as well as music playback as every material has its own tonal character. We use drivers with paper cones or diaphragms that are not made from metals. Paper has excellent self-damping characteristics, a flat frequency response, and a gentle progressive onset of cone breakup. In our experiences, paper sounds the best with no associated metallic colorations of the modern aluminum, titanium or beryllium cones. Paper is unmatched in term of generating the most natural beautiful tones.

Voiced for single ended triode amplification: high efficiency

The majority of commercially available planar speakers have sensitivity in the low 80 decibels at 8 ohms, requiring high power solid state or tube amplifiers.

With its high efficiency, the Model 1 is optimized for low power single ended triode amplifiers, more commonly referred to as SET.

The Model 1 is voiced with our Model 2 stereo direct heated triode (DHT) amplifier. The Model 2 implements a rare all-DHT circuit with only transformers, and two 300B tubes in the signal path.

We also listened extensively with several third party SET amplifiers.

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