



Danish Audiophile Loudspeaker Industries

DYNAMIC FIDELITY

Most loudspeakers force you to make a crucial buying decision: Do you want purist audiophile qualities such as a detailed, three-dimensional, musically coherent sonic illusion?

Or do you want the raw power, dynamics and high sound pressure levels of the concert hall experience?

With the DALI 109 you can have it both ways. DALI 109 is a robust three-way, four driver loudspeaker designed to combine the best of both worlds through the considered application of DALI's advanced technical solutions: low loss drivers for reduced mechanical distortion and increased efficiency, Linear Impedance Load for improved amplifier compatibility and a Linear Directivity crossover for linear off-axis frequency response.

Its effortless ability to convey a seamless blend of dramatic dynamics and a wealth of musical detail makes the DALI 109 a strong all-round contender regardless of your musical preferences.

Drivers

DALI 109 generates prodigious bass from a pair of 10" die-cast bass drivers with coated paper diaphragms whose total surface area approaches that of a 15" unit. Two drivers with separate voice coils permits improved heat dissipation for a substantial increase in power handling.

Each woofer is mounted in a separate bass reflex enclosure with its vent on the rear panel opposite the driver for a virtually symmetrical coupling of the driver diaphragm to its air volume. Low loss surrounds are employed for long, linear throw with no dynamic compression at high levels.

The low loss surround is also a key feature of the 5" midrange driver, because it allows the accurate rendering of the micro-details which are so crucial to the credibility of the musical illusion.

Instead of the common voice coil dust cover, the DALI 109 midrange unit incorporates a phase plug to improve dispersion at the upper end of its frequency range to eliminate compression and to aid in more effective heat dissipation.

The midrange driver is housed in a sealed, damped chamber. Internal reflections in midrange chambers usually escape through the diaphragm, adding distortion to the music signal, therefore the tubular chamber in the DALI 109 is specifically designed to eliminate reflections.

The 1" cloth dome tweeter incorporates a large, powerful double magnet and offers ideal high frequency dispersion, even at off-axis listening positions. The tweeter, which uses low viscosity ferro-fluid for resonance damping and improved heat dissipation, has been speci-

ally selected for its open, airy reproduction of overtones.

Crossover network

The crossover employed in the DALI 109 is designed for the optimum conversion of electrical energy to acoustic energy with minimal insertion loss and no distortion. The sophisticated crossover incorporates only the finest components in the signal path, including metallized polypropylene capacitors.

The crossover meshes ideally with the custom drivers employed in the DALI 109 for a seamless, homogeneous musical performance and DALI's Linear Impedance Load makes the 109 an exceptionally amplifier-friendly loudspeaker.

Enclosure

The cabinet of 19mm particle-board is a slim, attractive enclosure with optimum dispersion characteristics thanks to the narrow, rigid front baffle. A diffraction-damping layer of felt enhances the stability and focus of the stereo image.

Each 10" driver has its own non-rectangular air volume for effective control of side panel vibration. Internal bracing offers additional reinforcement and resonance control.

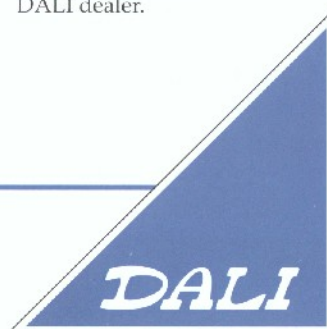
The gold-plated terminals accept banana plugs and heavy-gauge bare wire.

You owe it to yourself to experience the rare combination of musical integrity and raw power. Audition the DALI 109 at your authorized DALI dealer.

Specifications:

Cabinet type.....Bass reflex x 2
Crossover frequency.....650 Hz/3500 Hz
Nominal impedance.....4 ohms
System resonance.....34 Hz
Frequency response \pm 3dB.....42-18000 Hz

Recommended amplifier power.....20-500 Watts
Maximum Sound Pressure Level.....116dB
Sensitivity.(2.83V/1meter) 93dB
Dimensions (HxWxD).....105x30x38 cm
Weight.....28 kgs/62 lbs



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