

350



DALI

Danish Audiophile Loudspeaker Industries

HIGH DEFINITION

The DALI 350, an attractive floor-standing loudspeaker finished in real-wood veneer, delivers an unprecedented level of performance for a speaker of such modest dimensions in the key areas of neutrality, musicality, bass and dynamics.

Low distortion is a major contributing factor to the smooth full-range performance of the DALI 350. Transients are reproduced cleanly even at low frequencies, while the midrange remains richly detailed and open, with a three-dimensional rendering of the natural recorded space.

While it is common knowledge that dome tweeters typically suffer from distortions generated by uncontrolled motion at the diaphragm's unsupported center, the DALI 350 actually solves this problem by incorporating a cover which eliminates the audible effects of flexing at the dome center.

Bass/Midrange Driver

The DALI 350 incorporates a newly-developed 6 1/2" bass driver, a cone size which offers excellent low-frequency performance as well as seamless integration with the high-frequency driver. The pulp cone is coated to achieve the correct balance between inner damping and rigidity.

The driver's surround is optimized for linear travel and minimal loss. These features in conjunction with a newly-designed motor assembly lend the unit exceptionally long throw for sub-

stantial deep bass with distortion an outstanding 10 deciBels below more conventional drivers.

High Frequency Driver

The high frequency driver selected for the DALI 350 is a 1" unit with a coated textile dome.

Unlike most tweeters, the coating is applied to the side of the diaphragm which is in direct contact with the voice coil former, ensuring more efficient energy transfer from the voice coil to the coated diaphragm, and thereby enhancing the dynamic performance of the unit.

The tweeter also incorporates a ventilated pole piece and a rear chamber. This construction prevents compression effects from building up behind the diaphragm and shifts the tweeter's resonant frequency well below the unit's operating range.

Crossover Network

The crucial transition between the pair of customized phase-linear drivers in the DALI 350 is handled by a hard-wired crossover network consisting of ten quality components specifically selected for long-term stability and outstanding sonic performance and mounted with a special resonance-damping adhesive. Air-core inductors of heavy gauge copper are custom-manufactured at DALI's own facility and only metallized polypropylene capacitors are employed in the signal path.

The crossover network also incorporates specific compensation for

non-linearities in frequency response typically introduced by a small loudspeaker with a narrow baffle, reducing low frequency energy and causing the characteristic lightweight bass common to most smaller loudspeakers.

The DALI 350 crossover compensates for this effect, thereby achieving the full-bodied musical performance normally associated with much larger enclosures.

Enclosure

The DALI 350 is housed in a low-resonance particleboard enclosure with a 25 mm front baffle that serves as a rock-solid mount for the drive units. The already impressive level of vibration reduction can be further improved by filling the lower chamber of the cabinet with dry sand through the opening provided on the rear panel.



The additional mass increases stability and improves transient response, especially at low frequencies which are reproduced with an extra measure of control and precision for more realistic, tuneful bass.

For the best results, place the DALI 350 away from side or rear walls. Ideally, the distance between the speakers should be the same as the distance from each speaker to the central listening position.

Also, we strongly recommend bi-wiring or bi-amping via the dual terminal pair in order to achieve the full performance potential of the DALI 350.

Specifications:

Cabinet type.....Bass reflex
Crossover frequency.....3,000 Hz
Nominal impedance.....6 ohms
System resonance.....36 Hz
Frequency range.....42-20,000 Hz
Recommended
amplifier power.....50-150 Watt

Maximum
Sound Pressure Level.....107 dB
Sensitivity.....(2.83V/1m) 86 dB
Dimensions
(HxWxD).....88x22x24cm
Weight (without sand) 15 kg/33 lb
Weight (with sand).....26 kg/57 lb

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