When fantasy is close to reality

THE DALI SKYLINE SERIES

Imagine; The sound of music effortlessly reproduced in all three dimensions, challenging your most vivid fantasies. The Dali Skyline series breaks the boundaries between fantasy and reality - you are there

The innovative SKYLINE series represents the pinnacle of DALI loudspeaker development. With its unique combination of refreshingly different design and State of the Art performance, the SKYLINE series will appeal to dedicated audiophiles as well as those who appreciate fine design.

One of the major DALI design priorities has always been the development of room independent loudspeakers whose performance would not be compromised by normal living rooms.
The SKYLINE series is a giant step forward towards this goal. Years of intensive research into a newly developed principle has now resulted in a loudspeaker which represents a radical rethinking of design and technology.

We call this principle DHD: Dynamic Hybrid Dipole.
Dynamic Dipole because the system incorporates dynamic bass and midrange drivers in an open baffle radiating sound to the rear as well as to the front. Hybrid because they are integrated with our line source ribbon tweeter, resulting in a loudspeaker with controlled dispersion and combining the advantages of a ribbon driver and high-grade dynamic drivers.

The open baffle.

The bass system
While conventional speakers are omnidirectional, radiating bass energy roughly equally in all directions, (fig. 1.) the DALI DHD system has a more controlled dispersion pattern and radiates bass energy in a figure of 8 pattern as shown in figure 2. Restricted dispersion has significant advantages:
1. Controlled dispersion reduces the amount of reflected sound reaching the listening position as illustrated in figure 2. Controlled dispersion also means fewer room resonances and more accurate, uncoloured sound at the listening position.

Fig. 1

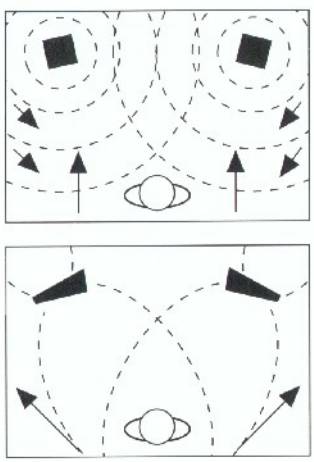
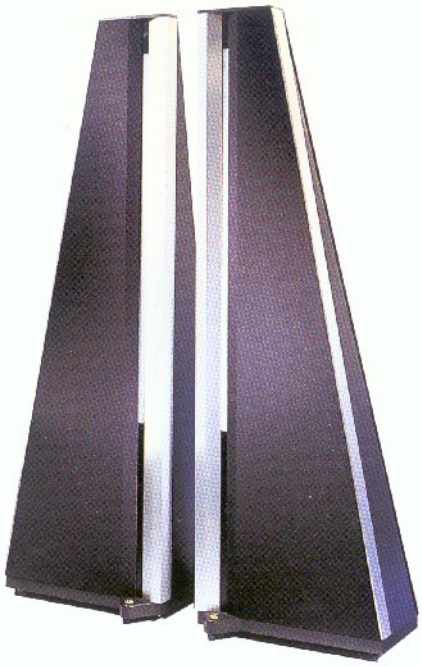


Fig. 2

2. With conventional loudspeakers, standing waves have a highly disruptive effect, making accurate bass very difficult to achieve.
Standing waves occur when the rear wall reflects bass energy back into the room where it interacts with the direct sound, cancelling it at some frequencies and boosting it at others. When the SKYLINE is correctly installed and properly angled, sound will not be reflected directly back at the loudspeaker because of its limited bass dispersion (fig. 2). With bass cancellation eliminated at the source, the SKYLINE offers more uniform bass reproduction thoughout the listening room.

The enclosure
The open baffle offers fine working conditions for the drivers. Sound is not closed in and the driver diaphragms are not deformed by the compression energy which is common inside a cabinet.



Dynamics are improved, distortion is reduced and there are no internal surfaces to cause reflections and colour the sound from the drivers.

The ribbon tweeter
The SKYLINE high-frequency driver is a 40" ribbon. The ribbon itself has approximately the same mass as a conventional 1" dome, but with 20 times the surface area and much greater throw, it offers improved dynamics and frequency response as well as greatly reduced distortion. The ribbon's magnetic assembly outweighs most complete bass drivers and exerts perfect control.
The ribbon system has many of the inherent advantages of the bass system: dispersion is controlled, but only in the vertical plane in order to reduce energy reflected off the floor and ceiling.
Fewer room boundary reflections means uncoloured, accurate sound at the listening position.

The ribbon tweeter