



WISDOM®

Wisdom Series LS4 & LS3



LS4

The LS4 is the cornerstone of this series, offering all of the benefits of a large-scale line source, combined with the unprecedented performance advantages of our high efficiency, ultra high output planar magnetic module. Reproducing more of the music/movies through our advanced thin-film technology than any previous model, including Wisdom Audio's highly regarded legacy models, the LS4 yields breathtaking performance in all areas including low distortion, detail, dynamic range, transparency, horizontal dispersion, sound stage imaging and maximum output capability.

LS4 Loudspeaker

Designed to be used in conjunction with the high efficiency, ultra high output STS subwoofer, the LS4 is a landmark achievement, offering a new level of performance that can simultaneously satisfy both the most critical music and film aficionados, as well as homeowners who place a priority on interior design. The LS4's industrial design was executed by the internationally renowned industrial design team at Ashcraft Design in Los Angeles and exquisitely incorporates machined aluminum, stainless steel and wood, underscoring its presence as a work of art to complement the finest interiors. For those who demand the best of all worlds, the LS4 exceeds expectations.

The LS4 continues our tradition of developing our highest performance models in a line source configuration yielding its attendant benefits. Our design goal of achieving a low frequency response of 80 Hz required an increase in enclosure volume over our Sage Series line source models. At 81 inches tall, 29 inches wide and 12 inches deep (at center), it can be mounted on the wall, eliminating low frequency rear wave reflections, or positioned out in the room on optional bases. Either placement allows the benefits of a coherent line source propagation to be optimally realized.

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Our namesake Wisdom Series uses our latest planar magnetic thin-film technology and represents an uncompromised engineering effort to achieve the ultimate in music and film sound reproduction. The models in this series, the LS4, LS4m, LS3m, LS4i, and LS3i, introduce a new standard of transducer refinement and capability, significantly extending the performance envelope beyond even our award-winning Sage Series[®].

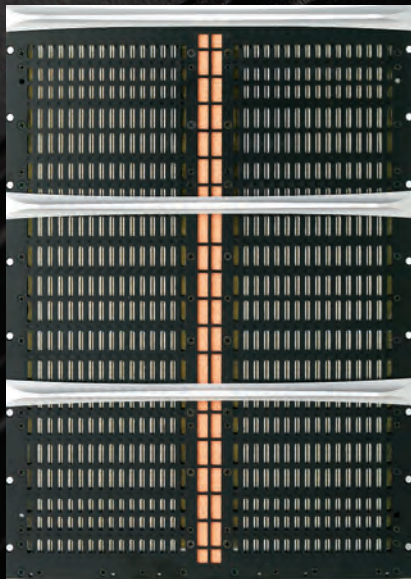


The LS4 is the tallest line source produced by Wisdom Audio. Incorporating true line sources of this length is unprecedented among architectural speakers. Since true line sources effectively eliminate deleterious floor and ceiling reflections, they are ideal for large rooms or those with architectural challenges including cathedral or coffered ceilings, hard floors, etc. The true line source behavior of the LS4 exhibits less propagation loss than any other type of loudspeaker, resulting in a vastly enlarged "sweet spot" that is particularly beneficial in any situation with a large listening area. Whether in a large multi-use space, media room with a casual seating arrangement or dedicated home theaters with multiple rows of seating, everyone in the audience is treated to "money seat" performance. For very large theaters with stadium seating or palatial spaces, additional modules may be stacked to create both a taller line source and higher sound pressure level capability.



source design, the lobing and comb filter anomalies of multiple-driver line arrays simply do not exist.

The LS4 establishes a new benchmark for overall system sensitivity in the planar magnetic, thin-film category, matching or exceeding the capabilities of professional audio speaker systems at typical listening distances. A single LS4 has a sensitivity of 100 dB for 2.83 volts input and is capable of reproducing sound pressure levels in excess of 130 dB at 4 meters. The large, 84-inch tall line source driver complement allows for ultra-high resolution, low distortion and extraordinary dynamic range. The result is remarkable detail, life-like dynamics, and a genuinely effortless performance at any volume level.



An LS4 consists of four two-way planar magnetic transducer modules each incorporating discrete low frequency and high frequency radiating areas. Within each transducer module, the low frequency radiating area is comprised of two sections, each reproducing the range from 80 Hz to 750 Hz. The low frequency

radiating area of a single LS4 is equivalent to 11 twelve-inch moving coil woofers. The vertically oriented high frequency radiating area is positioned in the center of the module, between the flanking low frequency transducers, covers the range from 750 Hz to beyond 20 kHz and is equivalent to the radiating area of 96 one-inch dome tweeters. This extraordinary measure of surface area allows for minimal movement to achieve a given sound pressure level, inherently reducing distortion at all frequencies. Yet because of the continuous nature of the advanced thin-film line

To achieve the LS4's remarkable sensitivity, each planar magnetic module employs a powerful magnetic field based on a combination of ceramic and neodymium magnets acting upon an ultra-low mass film. Within each LS4 a total of 2376 discrete magnets with a cumulative linear length of 396 feet (121 meters) are used. Assembly of these steel and aluminum modules using opposing magnetic fields is challenging, requiring particular expertise along with a pneumatic press to mate the two sections of the module to each other. The resulting transducer module assembly weighs in excess of 28 pounds (12.7 kilograms) and is the most sensitive thin-film transducer assembly ever developed for domestic use.

To optimize the performance of this latest generation planar magnetic transducer and avoid compromise in performance, the LS4 is a biamplified design, eliminating any passive components in the signal path. This yields lower distortion, greater efficiency and more accurate filtering between sections, providing direct connection between the selected amplifier and



LS3m

our purely resistive thin-film transducers, resulting in outstanding control of their diaphragms and allowing any amplifier to perform at its best.

Recognizing that the 81-inch height of the LS4 may exceed placement options in some installations, its sibling LS3 employs identical technology and shares the same industrial design, but incorporates three planar magnetic modules. At 61 inches tall, 29 inches wide and 12 inches deep (at center), it is designed for on-wall use, ideally suited for installation behind an acoustically transparent screen, as a main speaker or surround. An LS4 and LS3 multichannel system is our ultimate solution for those seeking seamless timbre matching and uniform dynamic expression throughout the listening space.

Essentially three-quarters of an LS4, the LS3 is a supremely capable speaker. A single LS3 has a sensitivity of 98 dB for 2.83 volts input and is capable of reproducing sound pressure levels in excess of 127 dB at 4 meters. The 64-inch tall line source driver complement offers identical performance characteristics as the LS4, with only a difference in sensitivity and maximum attainable sound pressure level.

As with its sibling, the LS3 benefits from a large sound-producing surface area that allows for minimal movement to achieve a given sound pressure level, inherently reducing distortion at all frequencies. The low frequency radiating area of a single LS3 is equivalent to 8 twelve-inch moving coil woofers. The high frequency radiating area is equivalent to the radiating area of 69 one-inch dome tweeters. To optimize both sensitivity and superb control of the thin-film diaphragms in each module, within each LS3 a total of 1782 discrete magnets with a cumulative linear length of 297 feet (91 meters) are used.

The LS4 and LS3 are unique, all new technology driven solutions that achieve a rare level of performance. Among all speaker designs, a category where subtlety in design and performance is all too common, these achievements stand apart. The goal for the design team responsible for these products was to create the best overall speaker system solution regardless of type, while maintaining Wisdom Audio's commitment to lead in the architectural speaker category. For those who insist on the highest standards for both their entertainment and home's decor, the Wisdom Series has no peer. Capable of unprecedented realism, the output of either system may be compared to live music and needs to be auditioned to be fully appreciated.

LS4 & LS3 Specifications

Please visit our website for specification and drawings on the Wisdom Series LS4, LS4m, LS4i, LS3m, and LS3i



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