

ADS

L1090 loudspeaker system:
An insightful synthesis of
form and function.



A new synthesis High performance loudspeakers have always presented a conflict: the better they sounded, the harder they were to live with. Loudspeakers of full bandwidth, that could achieve concert hall levels, have always had to be very large—built more to the pragmatic requirements of acoustics and engineering than to those of appearance and space considerations.

The L1090 ingeniously resolves this conflict. ADS has developed a new configuration for loudspeakers which not only offers increased performance, but also a new elegant profile, one welcome in almost any room.

This tower design yields some substantial sonic advantages: midrange and high-frequency drivers are positioned near ear level, above absorptive upholstery; vertically aligned drivers provide pinpoint stereo imaging; woofers are positioned off the floor for impressive, yet smooth, bass response. With the increasing use of digital source material these improvements become even more tangible.

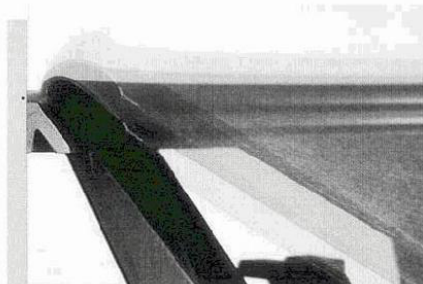
Digital heritage The potential for increased fidelity that digital recording and playback promise demands loudspeakers with a higher level of accuracy and precision. ADS' work with, and commitment to, digital technology in audio has shaped a new series of drivers. The L1090's high output capability and wide dynamic range realize the full potential of this new technology. And because digital sources have lower noise and distortion levels than do their analog counterparts, a loudspeaker with sharper focus, better imaging, and greater definition is necessary.

Quality and precision As with all ADS speakers, the L1090 has a unique advantage: the drivers are designed and built totally by ADS. The meticulous control over engineering and production assures a level of sonic credibility which is not approached by loudspeakers that are boxed collections of off-the-shelf drivers.



ADS Stiffite® Linear Drive® woofers The L1090's dual 190 mm/7.5 inch woofers provide more cone area than does a single 10 inch driver. Each woofer is housed in its own separate, sealed chamber for maximum performance. Cast aluminum baskets hold the magnet structures and moving parts in perfect alignment.

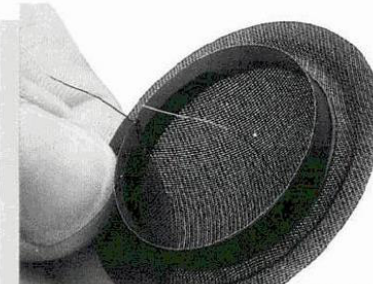
The tandem woofers use ADS' unique Stiffite cone material. These cones are true, rigid pistons, low in mass for superb transient response, and well-damped for low distortion and freedom from coloration. No other cone material comes so close to realizing the theoretical ideal. The woofers incorporate ADS' Linear Drive motor system for extended, linear voice coil travel. Premium butyl rubber suspensions allow long cone travel while maintaining full control at the limits of excursion.



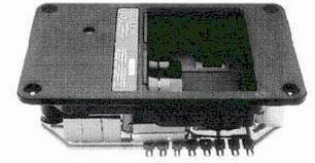
The premium butyl rubber surround allows the woofer long, linear cone travel.



ADS woven soft-dome midrange and tweeter The L1090's 19 mm/0.75 inch tweeter and 50 mm/2 inch midrange driver are capable of high output levels with low distortion. These drivers are constructed of a flexible woven material that is low in mass for excellent transient response and rigid for low coloration. The tweeter and midrange domes are sealed with an exclusive damping compound that improves the already superb damping of the domes. The perfectly wound, single-layer voice coils move in extremely narrow magnetic gaps which maximize the field strength of the barium ferrite magnets. In addition, a high-gravity magnetic cooling fluid extends the tweeter's dynamic range and raises its maximum output capability.



The ADS tweeter's woven soft-dome is strong, low in mass, and possesses excellent internal damping.



ADS high accuracy crossover network The ADS crossover network design emphasizes smooth, flat frequency response throughout the listening area and precise stereo imaging. ADS uses computer grade, tight tolerance components, and an elegant, low-loss circuit design for the highest possible efficiency. These high grade parts are securely soldered to a glass-epoxy circuit board, which is in turn mounted to a strong ABS housing, for a lifetime of dependable, accurate performance.

Fit and finish The L1090's flush front panel and flush driver mounting are acoustically correct for diffraction- and reflection-free high frequency radiation. The acoustically transparent, frameless metal grille preserves the integrity of the acoustic wavefronts while ably protecting the drivers.

The enclosure is fully finished on its five visible sides with fine genuine walnut veneers or with a textured, soft-black urethane finish. The enclosure's finish and detailed craftsmanship are no less painstakingly considered than the engineering it houses.

Lasting appeal While much of the attraction of the L1090 is its particularly graceful silhouette, its ability to accurately produce large amounts of cleanly defined sound will continue to delight and

**Pinpoint stereo imaging,
high power output capability,
incisive detail.**

