

# ADS L810

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The ADS L810 speaker is a studio-quality, four-driver, three-way system. It features exceptionally wide dispersion, smooth full-range frequency and power response. Because of its superb transient characteristics, the L810 reproduces the most subtle musical detail with an open, natural quality which we call "Invisible Sound." High accuracy is achieved through the use of highly precise drivers, integrated to a reference quality speaker system of astounding performance.

We offer the L810 as a no-compromise speaker for the discerning listener who is seriously interested in faithful reproduction of music.

#### **The Tweeter.**

The difference is in design. Our 1" diameter soft-dome tweeter contains a strong magnetic field of 15,000 Gauss driving a near massless dome (0.2 grams). The results are remarkable, open clarity, super-wide dispersion and ultra-smooth frequency response.

The tissue dome is suspended in its own sealed acoustic chamber where a unique sticky sealant compound damps out resonances. The distorting breakup often found in other tweeters is thus eliminated thereby giving our dome amplifier-like performance.

This same sensible design means the tweeter handles musical transients and details with complete accuracy and authenticity. In spite of its ultra light weight, the

1" dome tolerates substantial amounts of power, radiating excess heat into the massive 1.2 pound magnet. This is achieved through a single layer voice coil, which operates in our extremely narrow magnet gap. A virtually massless and properly damped dome provides unequalled transient response. The tweeter easily covers a frequency range from 4000 Hz to beyond audibility with ultra-fast response.

#### **The Midrange Driver.**

Midrange sounds, including the human voice, are the most difficult to reproduce. We've kept all the detail here, with our fabulous 2" soft-dome midrange driver that boasts a powerful five pound magnet. Our unique tissue dome houses a single layer voice coil, and the entire moving system weighs a mere 2.5 grams. It's completely sealed and damped to provide an acoustic suspension system with amplifier-like, ultra-low distortion.

Our midrange driver provides smooth handling of both frequency and critical power response over a range of 550-4000 Hz. Extremely wide dispersion enables this driver to radiate nine times as much power as a conventional midrange driver of the same diameter, and for a given on-axis sound pressure level.

ADS and BRAUN features in the midrange driver and tweeter technology give you super-wide stereo listening area with proper tonal balance on and off axis.

## The Woofers.

A pair of 8" woofers extends the L810's exceptional transient response into the bass range. Each cone is very light and exhibits excellent tone burst response for clean bass reproduction, even below 25 Hz.

The ADS L810 woofers are made of an exclusive cone compound that's rigid at low frequencies yet self-damping at high ones, to deliver a complete absence of coloration. These woofers can really move air at very low frequencies, due to exceptionally long excursion. Our narrow gap voice coil system uses the latest high-temperature, split aluminum bobbin technology. This design and a 9500 Gauss magnet structure provide remarkable efficiency seldom found in acoustic suspension systems. The soft, accurate surround and high compliance surround give the woofer free air resonance frequencies of an incredible 20 Hz. Also, our twin woofer design means exceptional transient response, high power handling, and great efficiency.



## The System.

We get the highest possible performance from our drivers by correctly matching the woofers to the cabinet and by phase optimized driver spacing. Also, our engineers realize that only the best crossover network can guarantee flawless performance of the speaker. The ADS L810 has a complex twelve element crossover network. We use heavy saturation-free air core inductors for wide, linear dynamic range and computer-grade metal-film capacitors for long term stability of frequency response and for low power losses. Attention to detail in the crossover contributes to the exceptional transient response, efficiency, and constant tonal balance of the L810 at all playing levels. Totally, the L810 represents one of the most accomplished high-performance loudspeakers at any price.



## ADS L810 Specifications

### DRIVER COMPLEMENT

One 1" diameter acoustic suspension, soft tissue dome tweeter

Magnetic field, 15,000 Gauss

Magnetic flux, 36,000 Maxwell

1.2 lb. magnet, 1" single layer voice coil

Usable frequency range, 1200-25,000 Hz

Used frequency range, 4000-25,000 Hz

One 2" diameter acoustic suspension, soft tissue dome midrange

Magnetic field, 15,000 Gauss

Magnetic flux, 136,000 Maxwell

5 lb. magnet, 2" diameter single layer voice coil

Usable frequency range, 300-6000 Hz

Used frequency range, 550-4000 Hz

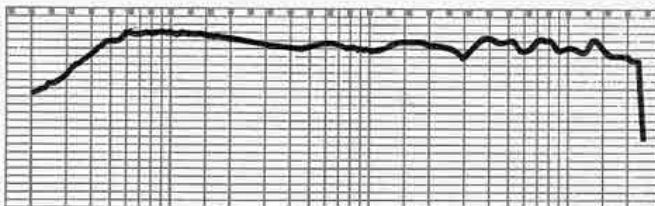
Two 8" diameter long excursion woofers

Magnetic field, 9,500 Gauss

Magnetic flux, 60,000 Maxwell

Resonant frequency (free air), 20 Hz

1" diameter high temperature metal voice coils with split aluminum bobbin



L810 FREQUENCY RESPONSE MEASURED WITH SINE WAVE SWEEP IN FREE FIELD

### SPEAKER SYSTEM

Frequency response, 20-25,000 Hz (DIN)

Impedance, 4 Ohms minimum

Efficiency, 88 dB SPL at 2 Watt input at 10 ft. distance

Recommended amplifier power,

20 Watts (RMS) minimum

Crossover frequencies, 550/4000 Hz

Crossover slope, 12dB/Octave

Weight, 53 lbs. net

Size, 25-1/2"(H) x 14-1/8"(W) x 11-3/4"(D)

Cabinet finish, Selected natural walnut

Grille, Removable black doubleknit or beige cloth

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