

The ADS 810 acoustic suspension speaker is a studio-quality, four-driver, three-way system. It features exceptional dynamic capability, smooth full-range frequency-, and wide angle power-response. With these qualities and superb transient characteristics, the 810 reproduces the most subtle musical detail with an open, natural quality which we call "INVISIBLE SOUND." Exceptional accuracy is achieved through the use of highly precise drivers and networks integrated to form a compact reference-quality monitor system of astounding performance.

We offer the 810 as a no-compromise speaker for the discerning listener who is seriously interested in faithful reproduction of music.

The Tweeter.

ADS drivers are different by design: A magnetic flux of 360,000 nW controls a dome and voice coil which together weigh only 0.2 grams. There is no distorting break-up or coloration common to paper cone, plastic, or metal dome tweeters; this difference is achieved by suspending our tissue dome with its own sealed acoustic chamber and by damping out resonances with a unique sticky fluid. Our technology also assures that 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. The single-layer voice coil/high-temperature former combination operates in an extremely narrow magnet gap. Excess heat is, therefore, efficiently transferred into the massive 1.2 pound magnet. The ADS design easily covers a frequency range from 4,000 Hz to beyond audibility, both on- and off-axis.

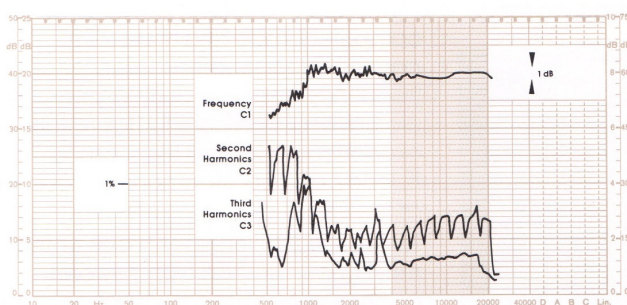
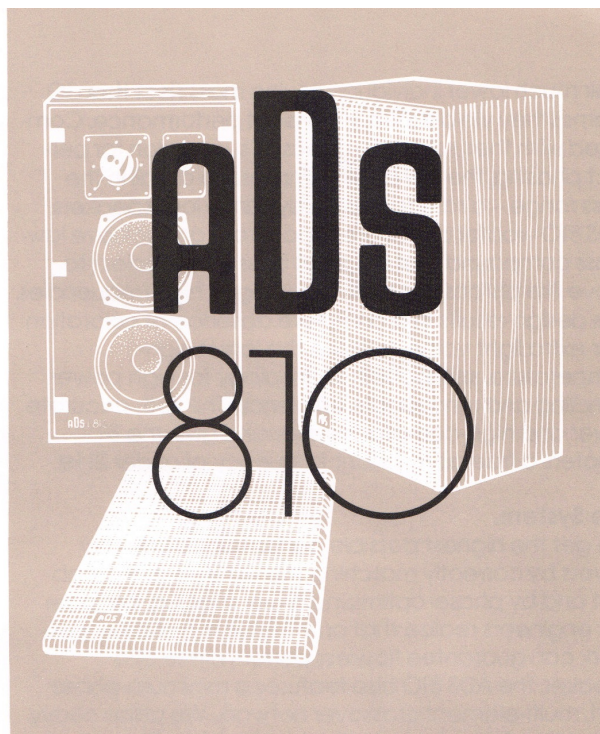
The Midrange Driver.

Midrange sounds, including the human voice, are extremely difficult to reproduce faithfully. We have kept all the detail there with our fabulous 2" soft-dome midrange driver. Our unique tissue dome is matched to a powerful ultra narrow-gap, precision magnet and is driven by a single-layer, high-temperature 2" diameter voice coil. The entire moving system weighs a mere 2.5 grams. It's completely sealed and damped by our exclusive damping compound to form its own acoustic suspension system. The result is very low distortion. Our midrange driver provides smooth handling of both frequency response and musically critical power response over a range of 550-4,000 Hz. Extremely wide dispersion enables this driver to radiate nine times as much power as a conventional cone midrange driver.

The ADS team's many years of experience have made us the industry leader in tweeter and midrange driver technology. The musical benefits for the owner of an ADS system, especially the 810 speaker, are a wide listening area, open and neutral voice reproduction, linear dynamic response over a wide range, and the total absence of "speaker sounds."

The Woofers.

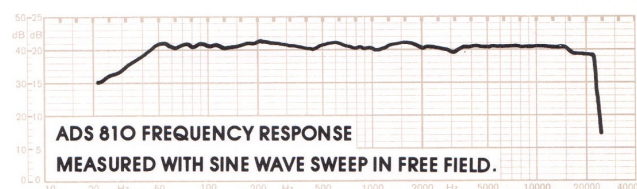
The two 8" woofers of the ADS 810 have the air moving ability of a single high-quality 12" driver, but because of



CURVE C1 SHOWS FREQUENCY RESPONSE OF ADS 1" TWEETER; CURVES C2 AND C3 SHOW THE VIRTUAL ABSENCE OF SECOND AND THIRD HARMONIC DISTORTION THROUGHOUT ITS OPERATING RANGE (SHADED).



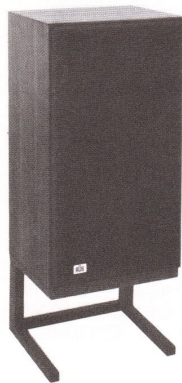
SPEAKER COMPLEMENT OF ADS 810



their much lower individual moving mass (less than 10 grams), they yield superior transient performance. Combined with their separate acoustic suspension for perfect phasing, the net result is impressive detail in the bass range – a rare feature in dynamic loudspeakers. ADS 810 woofer cones are made from an exclusive low-mass compound that is rigid at bass frequencies (to move like pistons), yet self-damping at high frequencies. This design results in a complete absence of coloration. Our extra light voice coils use the latest high-temperature, split bobbin technology for high power handling and remarkable efficiency. The soft, accurate skiver and high-compliance surround give the 8" woofers a free air resonant frequency of under 21 Hz.

The System.

We get the highest possible performance from our drivers by correctly matching the woofers to the cabinet and by phase-optimizing driver spacing. Because our engineers realize that only the best crossover network can guarantee flawless performance of a speaker, the ADS 810 also features a minimum-phase shift, multi-element crossover network. We utilize heavy, saturation-free air core inductors for wide, linear dynamic range and for low power losses as well as



computer-grade and metal-film capacitors for long-term stability of frequency response. Such expensive crossover design contributes to the exceptional transient response, efficiency, and constant tonal balance of the 810 at all playing levels.

Totally, the 810 represents one of the most accomplished high-performance loudspeaker systems at any price.

It is for this reason that the 810 is used in many recording studios and for other professional applications.

RECOMMENDED METAL SPEAKER STAND ADS 800LF.

ADS THREE YEAR LIMITED WARRANTY

Analog & Digital Systems, Inc. ("ADS") warrants to the first consumer purchaser of a new, undamaged ADS loudspeaker, that the loudspeaker will, under normal and reasonable use, be free from defects in material and workmanship for a period of three (3) years from the date of purchase. ADS shall, during such period, repair (or at ADS' sole option replace) the defective product or part without cost to purchaser other than one way freight charges.

This warranty is the sole and exclusive express warranty given with respect to ADS loudspeakers for home use and does not include any ADS products for mobile and automotive application and all other express warranties are hereby excluded. NEITHER ADS NOR THE LICENSED ADS DEALER WHO SELLS THE LOUDSPEAKER IS RESPONSIBLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO A PERIOD OF THIRTY-SIX (36) MONTHS FROM THE DATE OF PURCHASE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

The ADS warranty does not extend to any defect, malfunction, or failure caused by misuse, abuse, faulty hookup, defective associated equipment, or the use of the loudspeaker with equipment for which it was not intended.

This warranty is valid only for an ADS speaker purchased in the U.S. and when the ADS loudspeaker is returned to a licensed ADS dealer or directly to ADS at the address shown below, freight prepaid, together with proof of date of purchase. For the name and address of the nearest licensed ADS dealer, simply contact ADS or consult the classified section (Yellow Pages) of your local telephone directory.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

ADS

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ADS reserves the right to modify designs, equipment, and accessories without notice in the interest of technical progress.

ADS 810 Specifications.

DRIVER COMPLEMENT

One 1" diameter acoustic suspension, soft tissue dome tweeter with single-layer, high-temperature voice coil.

Magnetic flux density: 1.5 Teslas

Magnetic flux: 360,000 nW

Usable frequency range: 1300-25,000 Hz

Operating frequency range: 4,000-25,000 Hz

One 2" diameter acoustic suspension, soft tissue dome midrange driver with high-temperature voice coil,

Magnetic flux density: 1.4 Teslas

Magnetic flux: 1,270,000 nW

Useable frequency range: 400-6,000 Hz

Operating frequency range: 550-4,000 Hz

Two 8" diameter, long excursion woofers in separate chambers. High-temperature voice coils

Magnetic flux density: 0.95 Teslas

Magnetic flux: 600,000 nW

Resonant frequency: 20 Hz (free air)

Operating frequency range: 20-550 Hz

SPEAKER SYSTEM

Frequency response: 35-20,000 Hz (± 3 dB)
 20-22,000 Hz (± 5 dB)

Impedance: 4 Ohms minimum; 6 Ohms typical

Power rating: 75W RMS

Recommended amplifier power: 20W RMS min.,
 200 W RMS max.

Efficiency: 93 dB SPL (at 1 Watt RMS input at 1 meter)

Crossover: frequencies – 550 & 4,000 Hz
 slope – 12 dB/octave

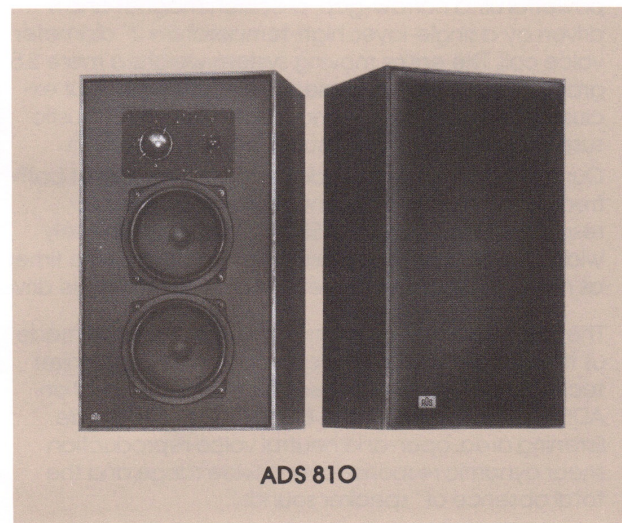
Weight: 46.5 lbs. net (21.1 kp)

Size: 25½" (H) x 14-1/8" (W) x 11¾" (D)

Cabinet finish: Select natural walnut

Grill: Removable black cloth

Recommended accessory: Black metal base
 ADS 800 LF



ADS 810