

The three-driver ADS 700 fills the gap between our two-driver, two-way systems and the powerful four-driver, three-way transducers.

The 700 features low frequency response and power handling capacity close to the more expensive model 710. It also shares the exceptional high frequency response and dispersion. Overall, the 700 extends the "Invisible Sound" into a range where power handling, accurate reproduction, detailed bass and treble are desired, without exceeding a relatively modest budget. Based on performance-per-dollar, the ADS 700 represents a very attractive and powerful solution.

The Tweeter.

The ADS 700 has the same great 1" diameter soft-dome tweeter used in our far more expensive studio units. You'll appreciate its unprecedented open clarity, super-wide dispersion, and silky smooth frequency response.

No other tweeter we have tested works as accurately and with so little distortion. That's because a magnetic flux of 360,000 nW controls a soft-dome weighing a mere 0.2 grams including the voice coil. We have eliminated the coloration so common to paper cone, plastic, and metal dome tweeters by using a soft tissue dome with its own sealed acoustic suspension.

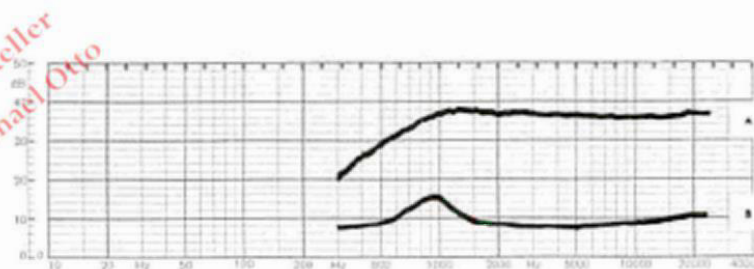
Our tweeter is designed to handle transients and musical detail with the fidelity required for "Invisible Sound." In spite of its light weight, it tolerates astounding amounts of power, thanks to its high-temperature voice coil and narrow-gap design. Most of the heat is radiated into an especially large 1.2 lb magnet which keeps the voice coil cool at all times.

The Woofers.

The ADS 700 utilizes two highly-accurate, very long excursion, 7" diameter woofers which operate in parallel, but which are isolated by virtue of two independent acoustic suspensions: The 700 has two cabinets in one, separated from each other by a sealed, inert divider. This dual woofer concept reduces the moving mass of each driver to a few grams, and thereby extends transient response and resolution of musical detail into bass. At the same time, this concept does not sacrifice the air moving ability of a single large woofer, because the ADS 700 can move as much air as an outstanding 10" woofer. Of course, these twin woofers employ the latest high-power, high-temperature voice coil technology.

The Crossover.

At ADS, we design and produce our own crossovers to achieve maximum performance from our drivers. For perfect dynamic linearity and minimum power losses, we use massive (up to eighteen-ounce) copper air coils. For long-term stability and consistently excellent frequency response, our crossovers incorporate computer-grade metal-film capacitors.



ADS TWEETER : A) FREQUENCY RESPONSE B) IMPEDANCE



ADS 700 DRIVER COMPLEMENT

The System.

Even the best ingredients do not guarantee a top-performance product. Every single element has to be developed and manufactured with the system in mind. Not only the electrical components are critical, but also such factors as driver spacing, cabinet design, and dimensions. Even a speaker grill can potentially be in the way of neutral musical reproduction and must be considered an important part.

The ADS 700 is a fine example of systems integration. Whether you buy it for its high-quality components or for the beautiful exterior finish, there is little in its price range that can match the musical performance and at the same time its compact size and efficiency.



ADS ASSEMBLY LINES IN OUR WILMINGTON, MA PLANT

ADS 700 Specifications.

DRIVER COMPLEMENT

One soft-dome tweeter, 1" diameter, with single-layer high-temperature metal voice coil
Magnetic flux density: 1.5 Teslas
Magnetic flux: 360,000 nW
Operating frequency range: 1,500-25,000 Hz
Two 7" diameter, long excursion, high-compliance woofers with high-temperature metal voice coils mounted in separate chambers
Magnetic flux density: 0.95 Teslas
Magnetic flux: 450,000 nW
Resonant frequency: 25 Hz (free air)
Operating frequency range: 30-1,500 Hz

SPEAKER SYSTEM

Frequency response: 45-20,000 Hz (± 3 dB)
Impedance: 4 Ohms (nominal)
Power rating: 50W RMS
Recommended amplifier power: 15 RMS min., 75W RMS max.
Efficiency: 92 dB (at 1 Watt RMS input at 1 meter)
Crossover: frequency - 1,500 Hz
slope - 6 and 12 dB/octave
Weight: 32.5 lbs. net (14.8 kp)
Size: 21-5/8" (H) x 12-1/4" (W) x 10-1/2" (D)
Cabinet finish: Select natural walnut
Grill: Removable black cloth

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 SIX (6) 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 700

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