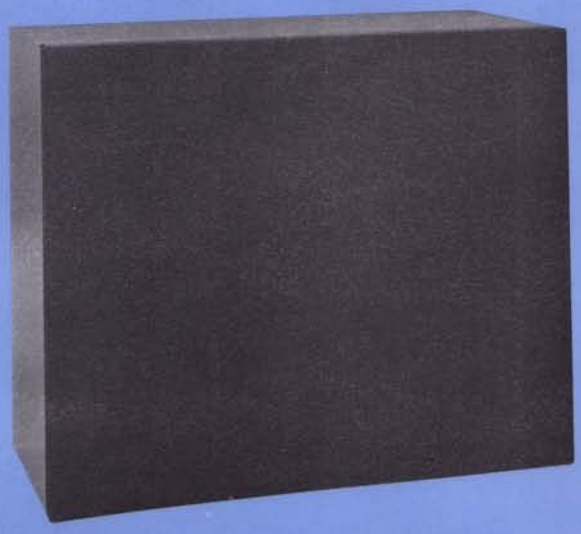
ALTEC LANSING

9842-8A/9842-8D MONITOR SPEAKER SYSTEM ...PRELIMINARY



9842-8A

9842-8D

DESCRIPTION

The 9842 is a unique speaker system well suited to monitoring in recording or broadcast studios and control rooms, as well as in disc mastering rooms. It also may be used for live or recorded sound reproduction in small clubs, theatres, schools, and so forth.

A 12″ bass driver, front-mounted in a vented 6 cubic foot enclosure, efficiently handles lower frequencies. A 1,500 Hz passive R-L-C type crossover network feeds higher frequencies to a compression driver/horn assembly which features Altec Lansing's patented Tangerine™ radial phase plug and our newly designed MANTARAY™ horn. In addition, a built-in 2-band mid/high frequency equalizer gives the 9842 the flexibility of a 3-way speaker system.

The Tangerine phase plug smooths and extends the high frequency response to beyond 20,000 Hz, while the MANTARAY horn provides constant directivity of sound at **all** frequencies covered by the horn/driver assembly. The particular MANTARAY horn chosen for the 9842 has a 90° horizontal pattern with an assymetrical vertical pattern: 10° upward and 30° downward dispersion. This ensures that in the typical installation, where the speaker system is mounted near ceiling level, most of the sound is projected downward to the listening area, greatly reducing such undesired phenomena as near-field reflections and excess reverberant energy.

Because the 9842 is able to cover an exceptionally wide area with uniform spectral balance (i.e., no "beaming"), it not only simplifies room setup and equalization, it widens the "ideal" listening position. In the studio, for instance, several people seated behind a wide mixing board can all hear the same sound from the monitors.

The 9842 incorporates still another Altec Lansing exclusive, an Automatic Power Control circuit. It silently and automatically reduces the input to the drivers when power levels rise above 75 Watts, and it turn ON a warning light. This self-powered circuit enables the speaker to handle up to 200 Watts continuous sine wave amplifier output without audible distortion or program interruption.

The 9842 is extremely sensitive (95 dB SPL/1 Watt/4 feet) for a moderately sized system. It is available in gray lacquer or an optional genuine walnut veneered finish. A black grille is optional. There's nothing to compare with it.

SPECIFICATIONS

Speaker Components:	12″ Bass Driver, Compression driver with Tangerine™ radial phase plug,* MANTARAY™ constant directivity horn**
Enclosure Type:	Vented
Power Capacity:* **	200 Watts with Automatic Power Control** protection circuit, 75 Watts drivers alone
Frequency Response:	35 Hz to 20 kHz
Impedance:	8 ohms nominal; 6 ohms minimum at 2 kHz
Sensitivity:	95 dB SPL. Measured at 4 feet, 1 Watt input, using pink noise band limited 500 Hz — 3 kHz, shelving controls set at optimum
Maximum Long-Term Acoustic Output:* **	114 dB SPL (4 feet, on axis)
Distribution Pattern:	40° vertical by 90° horizontal; vertical aimed 10° up and 30° down (angle included between −6 dB points)
Crossover Network:	1,500 Hz, 12 dB/octave, with continuously variable equalizer controls at 4 kHz and 10 kHz, 8 dB maximum equalization
Finish:	Gray Lacquer (9842-8A) Walnut veneer (9842-8D)
Dimensions:	24 1/16″H x 28 1/16″W x 14 1/16″D (15 5/8″D with grille) (611mm x 685mm x 357mm) (397mm)
Net Weight:	70 pounds (31.75 kg)
Shipping Weight:	75 pounds (34 kg)
Accessories:	Black Grille (optional) Model 34702

*Reg. U.S. Patent No. 4,050,541; Foreign patents pending.

**U.S. and foreign patents pending.

***Measured using pink noise, band limited to the frequency response of the system over an extended period of time.

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The loudspeaker system shall include a 12 inch bass driver with die-cast aluminum frame, and a constant directivity mid/high frequency horn, fitted with a compression driver having a radial phase plug to provide extended high frequency response to above 20,000 Hz. The system shall have a built-in passive crossover network, 12 dB/octave, centered at 1,500 Hz, and also shall include a 2-band passive equalizer with up to 8 dB of continuously variable equalization at 4 kHz and 10 kHz.

Pressure sensitivity shall be at least 95 dB SPL at 4 feet, on axis, with 1 Watt input of band-limited pink noise from 500 Hz to 3,000 Hz applied to the input. Dispersion angles (angle included in the −6 dB points) shall be 90° horizontal and 40° vertical, the vertical plane of the horn being assymetrically designed to aim 10° upward but 30° downward. The system shall be capable of sustaining a long term power input of 200 Watts, pink noise, limited to the frequency bandwidth of the system. The nominal load impedance at the speaker system input terminals shall be 8 ohms.

The enclosure shall be constructed of heavily braced ¾″ material, finished in gray lacquer or wood veneer, shall measure 24 1/16″ H x 28 1/16″ W x 14 1/16″ D, and shall weight 70 pounds. The loudspeaker system shall be the ALTEC LANSING Model 9842.

ALTEC LANSING

1515 SOUTH MANCHESTER AVENUE, ANAHEIM, CALIFORNIA 92803
ALTEC CORPORATION

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