

**ALTEC
LANSING**

MODEL 9813 STUDIO MONITOR ...PRELIMINARY



DESCRIPTION

In addition to consistent flat response, studio monitors are traditionally evaluated according to their ability to produce substantial low-end, smooth mid-range capable of transient crispness, and high frequency clarity across a wide angle of dispersion. Designed for the flawless fulfillment, and expansion, of these parameters, the Altec Lansing Model 9813 Studio Monitor delivers the natural, detailed sound so vital to the creative studio process.

The ALTEC LANSING Model 9813 Studio Monitor is a three way system designed for all applications requiring accurate frequency response, low distortion and wide dynamic range. The LZT (lead-zirconate-titanate) UHF driver provides extremely accurate UHF response, very low distortion and superior power capacity. The mid-range driver is constructed with a die-cast alloy

frame within a sealed, high-pressure injection molded sub-enclosure. The low frequency bass driver consists of a deep-well ferrite magnet structure in a die-cast alloy frame.

A pass-band-stable network is provided with high and mid frequency controls, and automatic power control circuitry. The automatic power control **automatically lowers power** to the speaker under conditions of excessive demand. A light on the front panel indicates the condition of excessive power.

The enclosure is specially constructed to assure superior stiffness of the cabinet and has an excellent strength-to-weight ratio. Features include computer-assisted enclosure tuning, anechoically damped baffle and quick-connect terminals. The enclosure has a rift-cut oak finish and a grille of black stretch grille fabric.

SPECIFICATIONS

Type:	Three-way, vented monitor loudspeaker system	Dynamic Range:	47 dB minimum crest factor above 60 dB at 1 meter.
Components:	24091 UHF Loudspeaker 24083 Horn 24082 HF Driver 24201 LF Loudspeaker 24209 Network Assembly	Distribution Pattern:	100° horizontal, 40° vertical up, 20° down
Power Rating:	40 watts continuous pink noise, 20 Hz to 20 kHz	Crossover Frequency:	700 Hz, 5000 Hz
Frequency Response:	60 Hz to 20 kHz ± 2.5 dB	Impedance:	8 ohms nominal
Pressure Sensitivity:	90 dB SPL measured at 1 meter on axis with 1 watt input of pink noise from 500 Hz to 3000 Hz (Ref.: 0.0002 dyne/cm ²). Equal to EIA rating of 47.5 dB SPL measured at 30' (9.144 m) on axis with 1 milliwatt input.	Finish:	Rift-cut oak; black stretch grille fabric
		Dimensions:	25½" (64.8 cm) H x 15½" (39.4 cm) W x 13½" (34.3 cm) D
		Weight—	
		Net:	37 pounds (16.7 kg)
		Shipping:	44 pounds (20.0 kg)

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The studio monitor shall consist of a three-way system having a LZT UHF driver mounted on a Mantaray horn, a midrange loudspeaker with die-cast alloy frame in a sealed sub-enclosure, a 10-inch low-frequency loudspeaker with die-cast alloy frame, an 8-ohm dividing network with a power control system that automatically lowers power to the loudspeaker under conditions of excessive power demand.

The studio monitor shall have the following performance criteria. Power rating: 40 watts continuous pink noise from 20 Hz to 20 kHz. Frequency response: 60 Hz to 20 kHz, ± 2.5 dB. Pressure sensitivity: 90 dB SPL when measured at 1 meter on axis with 1 watt

input of band-limited pink noise from 500 to 3000 Hz (ref.: 0.0002 dyne/cm²). Distribution pattern: 100° horizontal, 40° vertical up, 20° vertical down. Crossover frequency: 700 Hz and 5000 Hz. Impedance: 8 ohms.

The enclosure shall be specially constructed for superior cabinet stiffness and shall be 25½" H x 15½" W x 13½" D. Weight of the studio monitor shall be 37 pounds. The studio monitor shall be finished in rift-cut oak with black stretch grille fabric.

The studio monitor shall be the ALTEC LANSING model 9813.



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