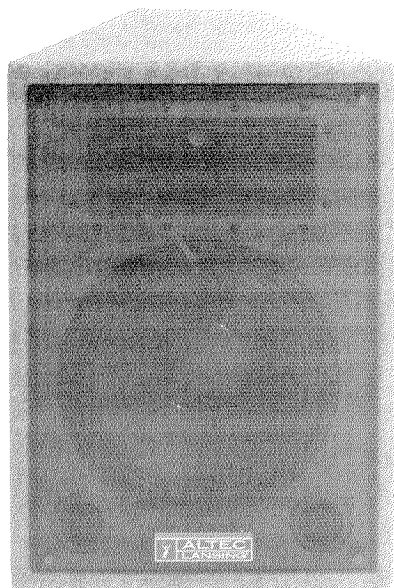




a MARK IV company

PS-360A Two-Way Portable Loudspeaker System



PRIMARY SPECIFICATIONS

System Type:	Two-way, vented-type full-range loudspeaker system.
Pressure Sensitivity: (1 watt, 70 Hz to 20 kHz, re: 20 mPa, see note 1).	100.0 dB SPL.
Frequency Response: (see Figure 1, Note 2).	70 Hz to 20 kHz.
Power Handling: (200 watts, 70 Hz to 20 kHz, see note 3).	200 watts, AES method. 400 watts, continuous program. 800 watts, peak power.
Maximum Output: (200 watts input, 1 m, re: 20 mPa, see note 4).	122.0 dB SPL, AES method. 125.0 dB SPL, cont. program. 128.0 dB SPL, peak power.
Impedance:	7.0 ohms minimum. 8.0 ohms nominal.

KEY FEATURES

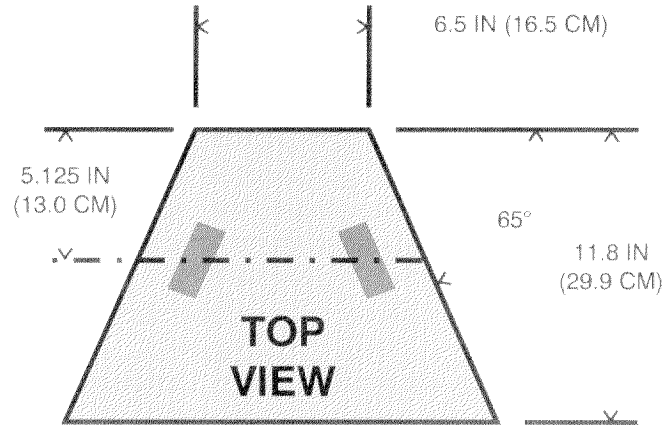
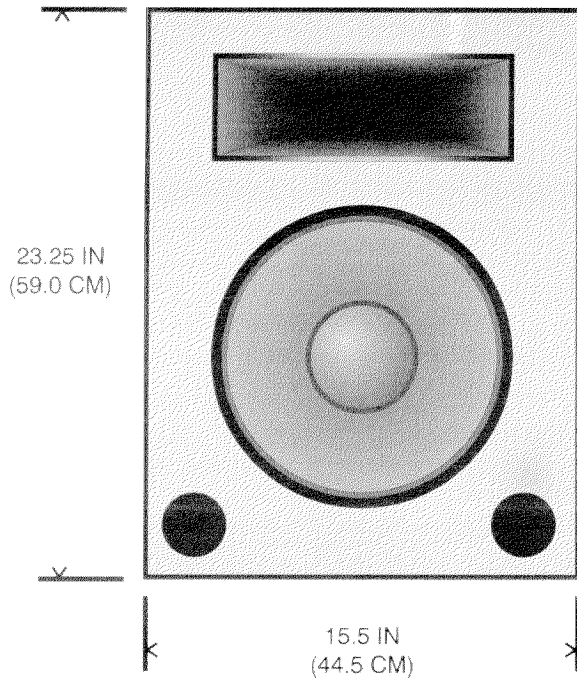
- ★ Portable Loudspeaker System
- ★ High-Output Capability
- ★ Auto-Reset Circuit Breakers
- ★ Durable, Protective Covering
- ★ Integrated Suspension Points
- ★ Factory Supplied Hanging Fittings

DESCRIPTION

The Altec Lansing **PS-360A** loudspeaker is a two-way factory-assembled system. The system features a 12.0 inch (30.5 cm) low frequency driver with a 1.0 inch (2.5 cm) compression driver utilizing a 80° x 55° constant-directivity horn. Smooth transition at crossover is accomplished by a dual-section, 12 dB/octave crossover network centered at 1.6 kHz. Both the L.F. and H.F. sections of the system are protected using a self-resetting protection circuit which will not allow the inexperienced user to damage the systems components. The enclosure is constructed of 0.75 inch (1.9 cm) 7-layer plywood for maximum strength, and covered in a protective light gray carpet that is more durable than conventional coverings.

The enclosure is also supplied with a removable metal grille which adds to the durability. Inset handles on either side of the unit allow for easy transportation. A built-in stand mount compliments the versatility of this unit. Each enclosure incorporates two independent suspension points on top of the enclosure. Appropriate locking fittings are supplied with every system, allowing for easy installations.

The intended use of the **PS-360A** is in medium to large main sound reinforcement systems and would be ideal for houses of worship, small to medium sized auditoriums or other acoustic environments where a flexible, portable, inexpensive loudspeaker system is required.



PS-360A SPECIFICATIONS (continued)

Components:	12.0 inch (30.5 cm) low frequency loudspeaker with a 1.0 inch (2.5 cm) high frequency compression driver and rectangular coverage 80° by 55° horn.	Replacement Grille:	Model RGPS360.
Crossover Network:	Two-way at 1600 Hz with a 12 dB per-octave slope for both sections. Self resetting protection circuits for both woofer and tweeter.	Enclosure:	Vented, built of 0.75 inch (1.9 cm) plywood lined with glass wool.
Input Terminals:	Two 1/4 inch phone jacks and two Neutrik Speakon connectors.	Finish:	Light gray carpet covering with black metal grille.
Replacement H.F. Diaphragm:	26420.	Dimensions:	
Replacement L.F. Recone:	R-ER-12S.	Height:	23.25 inches (59.0 cm).
		Width:	17.50 inches (44.5 cm).
		Depth:	11.8 inches (29.9 cm).
		Net Weight:	50.0 lbs (22.5 kgs).
		Shipping Weight:	57.0 lbs (25.9 kgs).

Altec Lansing continually strives to improve products and performance. Therefore specifications are subject to change without notice.

NOTES ON MEASUREMENT CONDITIONS

1. Pink noise signal, one Watt calculated using E^2/Z_{min} , 3.16 meter-measurement distance referred to one meter.
2. On-axis, one Watt calculated using E^2/Z_{min} , 3.16 meter-measurement distance referred to one meter, low frequencies corrected for anechoic chamber error.
3. This system rating patterned after the AES method for individual driver, where the test signal is pink noise with a 6 dB crest factor over the bandwidth of the system, with power calculated using the E^2/Z_{min} , for two hours.
4. This measurement made under the same conditions as Pressure Sensitivity, but at rated power, and takes into account any power compression effects due to non-linearities in the system.
5. Distortion components invalid above 10 kHz. The distortion at any given frequency may be found by graphically taking the difference between the fundamental and harmonic, and adding the number of Decibels which the harmonic has been raised on the graph and apply the formula:

$$\% \text{ distortion} = 100 \times 10^{(-\text{difference in dB}/20)}$$

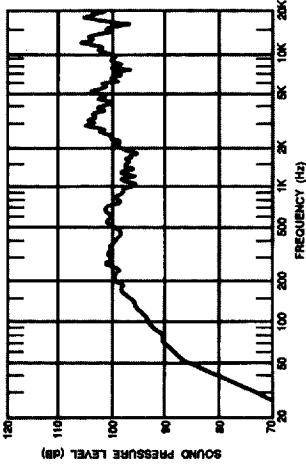
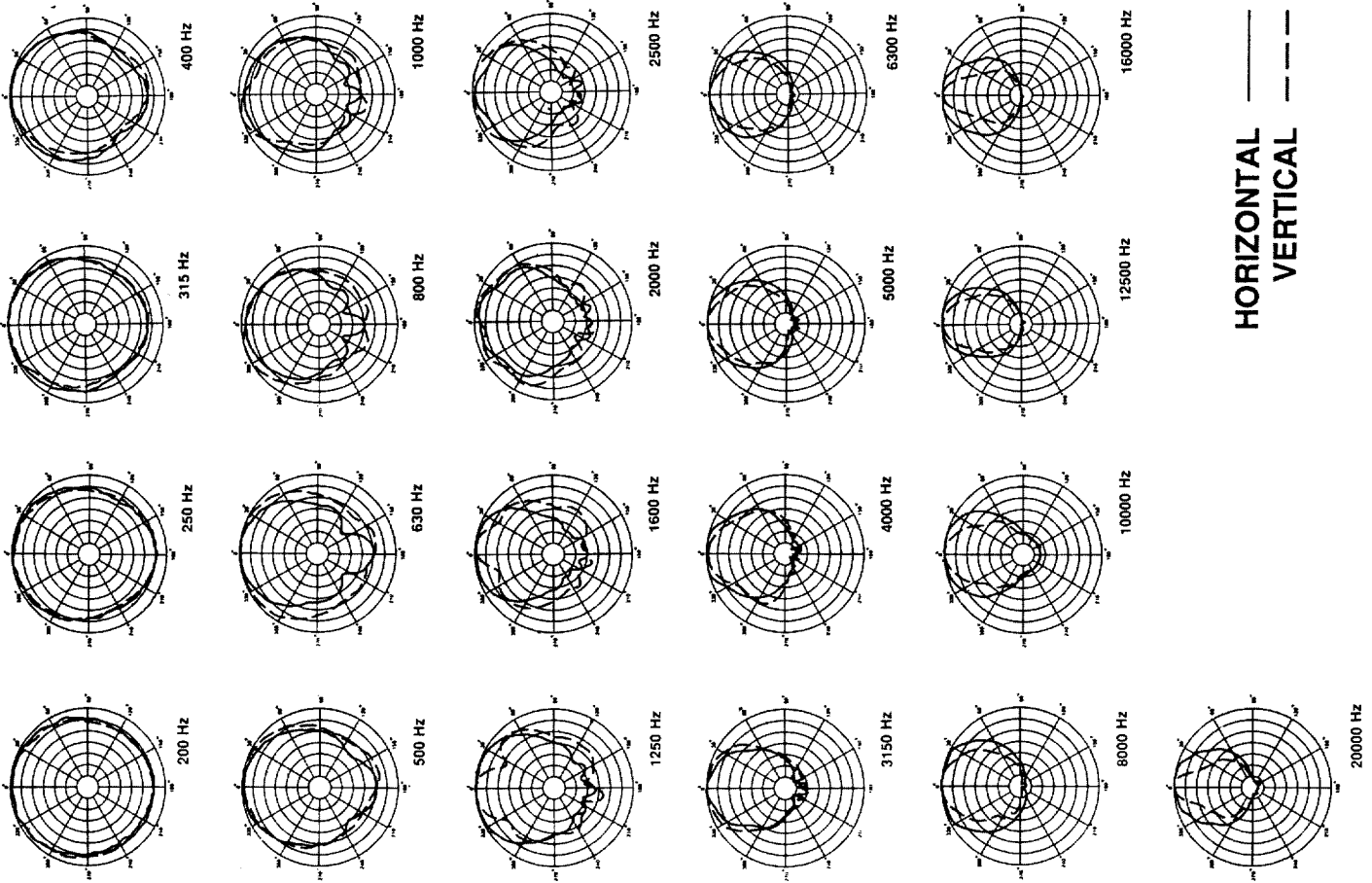


Figure 2 Frequency Response

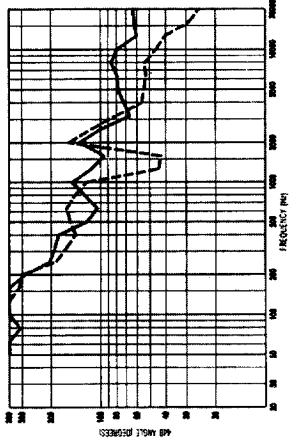


Figure 3 Dispersion Angle

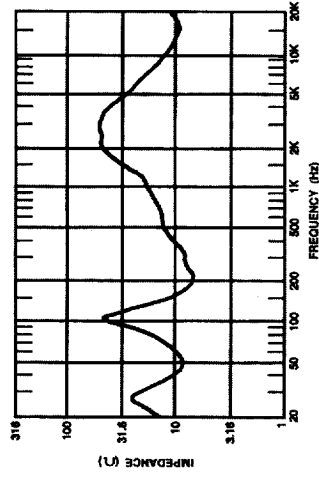


Figure 4 Magnitude of Impedance

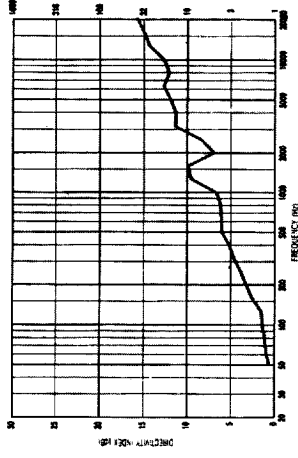
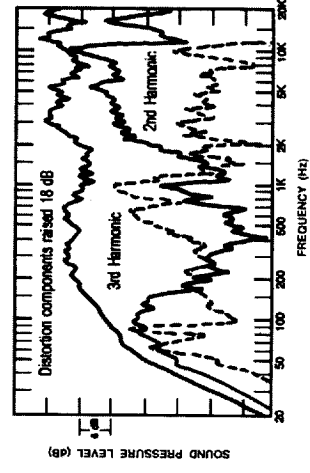
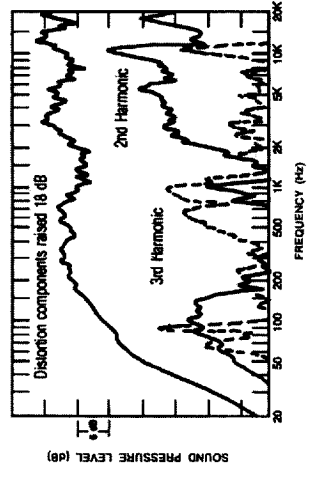


Figure 5 Q and Directivity Index



SUSPENDING PS-360A ENCLOSURES

Suspending any object is potentially dangerous and should only be attempted by qualified individuals who have a thorough knowledge of the techniques and regulations of rigging objects overhead.

Altec Lansing strongly recommends the PS-360A only be suspended in compliance with all current federal, state, and local codes and regulations. It is the responsibility of the installer to ensure the PS-360A is safely installed according to all of these requirements.

If the PS-360A is suspended, Altec Lansing strongly recommends the system be inspected at least once a year. If any sign of weakness or damage is detected, remedial action should be taken immediately.

Proper suspension of the PS-360A enclosure is performed using the following procedure, which has been approved by an independent structural engineer:

Every enclosure incorporates two independent suspension points on the top of the enclosure. The suspension points, which "tie" the top and sides of the enclosure together, are made of structural aluminum. Both points must be used at all times to suspend the enclosure. Each suspension point mates to an Ancra 42546-10 locking fitting (two are supplied with each enclosure).

This system provides a breaking strength of 2,000 pounds (907 kg) in any direction at each suspension point. The Ancra 42546-10 fitting incorporates a safety pin to prevent accidental release and should be engaged at all times.

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The loudspeaker system shall be a two-way multipurpose type consisting of a 12.0 inch (30.5 cm) loudspeaker with a 1.0 inch (2.5 cm) compression driver loaded with an 80° by 55° constant-directivity horn. The dividing network is a dual-section type 12 db/octave slope on both L.F. and H.F. sections with a crossover center frequency of 1.6 kHz. The loudspeaker system shall meet the following performance criteria: Power handling, 200 watts of pink noise with 6 dB crest factor, band limited from 70 Hz to 20 kHz. Frequency response, smooth and uniformly usable from 70 Hz to 20 kHz. Pressure sensitivity, 100 dB spl when measured at one meter

on axis with one watt of band-limited pink noise from 70 Hz to 20 kHz. Minimum impedance, 7.0 ohms.

The enclosure shall be the vented type, constructed of 0.75 inch (1.9 cm) 7-layer plywood lined with sound absorbent glass wool. The enclosure shall be covered in a protective gray carpet and feature a metal grille. The dimensions shall be 23.25 inches (59.0 cm) high by 17.5 inches (44.5 cm) wide by 11.8 inches (29.9 cm) deep. The loudspeaker shall weigh 50.0 lbs (22.5 kgs).

The loudspeaker system shall be the Altec Lansing PS-360A.



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