



DESCRIPTION

The Altec 1231 Multi-Purpose Loudspeaker System is a versatile and portable unit of above-average efficiency designed for use as a high-level stage monitor in musical sound reinforcement applications, and as a main speaker in limited sound reinforcement. Compact in size and somewhat triangular in shape, the 1231 features high-powered performance coupled with maximum roadability.

Due to its unusual shape and reversible black knit grille, the 1231 may be placed at 90°, 50° or 30° angles (referenced to a floor-plane mounting surface) without program content loss or undesirable surface reflections. The reversible grille permits a right-side-up orientation regardless of speaker position.

Our multi-purpose system consists of a 12-inch bass driver mounted in a vented enclosure, together with a HF compression driver/horn combination and side-mounted dividing network. The HF compression driver features

Altec's latest contribution to the state-of-the-art, the Tangerine™ radial phase plug* (with technically-advanced geometrical slits that eliminate sound barriers, thus widening frequency bandwidth) which allows far more high-frequency energy to enter the horn, thereby improving tonal response and overall system performance.

The enclosure, which contains an installation panel for bi-amplification set-up, is constructed of rugged 3/4" plywood and finished with black leather-grained vinyl. In addition to its new pro-looking appearance, the 1231 features recessed, hard vinyl handles and durable vinyl edge protectors for easy handling and long life.

As a stage monitor, the 1231 enables performers to more readily hear their own voices in the context of a high-sound level environment. Smooth low end sound and crisp high frequencies also make the 1231 a formidable principal speaker in sound reinforcement applications.

SPECIFICATIONS

Type:	Multi-purpose, vented, two-way monitor loud-speaker system	Distribution Pattern:	90° horizontal x 90° vertical up to 3 kHz (-6 dB included angles)
Components:	417 type 12" Bass Driver 32C HF Sectoral Horn 808-8B HF Compression Driver 1231 Dividing Network	Crossover Network (located on side panel):	2000 Hz
Power Rating:		Input Connections:	Two standard 1/4" phone jacks, parallel wired
Long-Term Broad-Band Maximum Power:	Up to 120 watts of band-limited pink noise (20 to 20,000 Hz)	Enclosure:	Heavily braced, acoustically damped, rigid enclosure of 3/4" plywood
Frequency Response:	70 Hz to 15,000 Hz	Finish:	Black leather-grained vinyl with vinyl edge protectors, metal corner guards and recessed handles
Impedance:	8 ohms	Dimensions:	22 1/2" (57.2 cm) H x 28" (71.1 cm) W x 22 3/4" (37.8 cm) D
Pressure Sensitivity:	97 dB SPL measured at 4' on axis with 1 watt input of pink noise band-limited from 500 Hz to 3000 Hz 114 dB SPL measured at 4' on axis with 50 watts input of pink noise band-limited from 500 Hz to 3000 Hz	Shipping Weight:	70 lb (31.8 kg)
Equivalent EIA Rating:	50 dB SPL measured at 30' on axis with 1 mW input	Actual Weight:	64 lb (29 kg)
		Accessories (included):	50', 2-conductor cable with standard 1/4" phone plug on each end; four 1/4"—20 eyebolts for suspending enclosure

	417-8H II 12" BASS DRIVER	808-8B COMPRESSION DRIVER*
Voice Coil Diameter:	3"	1.75"
Voice Coil Material:	Copper	Aluminum
Magnetic Assembly Weight:	11 1/2 lb (5.21 kg)	1-1/5 lb (0.54 kg)
Magnet Material:	Alnico V	Alnico V
Flux Density:	12,900 gauss	15,250 gauss
Dimensions:	12" (30.48 cm) Diameter 6" (15.24 cm) Depth	4 1/2" (11.4 cm) Diameter 3 1/8" (9.4 cm) Depth
Weight:	17 lb (7.7 kg)	7 lb (3.2 kg)

32C SECTORAL HORN

Dimensions: 16" (41 cm) W x 8" (20 cm) H x 8 3/4" (22 cm) D

*Contains patented Tangerine™ radial phase plug, only from Altec. Reg. U.S. Patent No. 4,050,541; Foreign patents pending.

ARCHITECT AND ENGINEER SPECIFICATIONS

The loudspeaker system shall be of the two-way, multi-purpose, monitor type with a 12" low-frequency loudspeaker, a high-frequency compression driver loaded with a horn having exponential expansion, and a dividing network on the side panel having a crossover frequency of 2000 Hz, all mounted in a vented enclosure.

The system shall meet the following structural and performance criteria. The enclosure shall be constructed of heavily braced, 3/4" plywood, covered in black leather-textured vinyl, with edge protectors, and recessed handles, shall be acoustically damped with sound-absorbent material, and shall allow for

positioning at 90°, 50° or 30° angles, referenced to a floor-plane mounting surface. Power capacity, up to 120 watts of continuous pink noise, band-limited from 20 to 20,000 Hz. Frequency response, 70 to 15,000 Hz. Pressure sensitivity, 97 dB SPL at 4' when measured on axis with 1 watt input of pink noise, band-limited from 500 to 3000 Hz. Impedance, 8 ohms. Distribution pattern, 90° vertical x 90° horizontal up to 3 kHz. Maximum dimensions, 22 1/2" H x 28" W x 22 3/4" D. Net weight, 64 pounds.

The loudspeaker system shall be the ALTEC Model 1231.

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