

ABOUT OUR CATALOGUE

We at Altec Lansing have long been proud of the heritage we possess — over four decades of leadership in professional sound. Recording studio monitors, theatre sound systems, permanently installed high level sound reinforcement systems, portable sound reinforcement equipment—the list of Altec Lansing leadership goes on. Wherever professionalism in sound is the requirement, Altec Lansing is there.

We have carried our tradition of quality and professionalism into every facet of our involvement— and now with a special emphasis on equipment for the home. We have pooled our traditions, talents, and experience in engineering, design, and manufacturing to produce a most comprehensive line of quality loud-speakers and speaker systems—products of professional quality and heritage, yet products that will enhance any living environment.

In many cases these products are identical or share the same components as products destined for professional application. We, more than anyone, understand the differences and the similarities in requirements for professional products and home high fidelity reproducers. Quite often the home reproducer can pose a completely different set of performance criteria to challenge the creativity of the design team. We have accepted this challenge, and the products displayed in this catalogue exemplify the output of our creative efforts, designed especially for use in the living environment.

This catalogue is not only intended to display our products, but to represent our philosophy as well. That philosophy is one of optimization. Optimization of science, art, talent, and effort, resulting in the optimum in performance, styling, and value. We now bring to you, through this catalogue, a statement of that philosophy interwoven with a display of what we feel is the finest line of high fidelity reproducers available. We trust that this catalogue will make easier one of the most difficult purchasing decisions facing the consuming world: The choice of a high fidelity speaker system.

We are confident that after examining our product line and reviewing the philosophy presented by this catalogue, there will be but one choice open.

ALTEC LANSING



RIES II

Second Generation of Altec Lansing's kshelf Models

aps more than any other single audio ponent, the speaker-on-the-shelf has e to represent Hi Fi. Its classic design compact size have made it a favorite the d over. But all bookshelf speakers are far being equal.

Altec Lansing, we have always believed our speakers should deliver outstanding ormance. So we invest years of research refinement in every product we make. ne result of this effort — the Series II kshelf Line.

ve speakers — each an exceptional perer. Each made better by subtle changes coustic design, construction techniques material selection. Changes like the new id magnet design found in the Models through Seven.

ntil now, speaker magnet structure design

either of the traditional Alnico or ceramic ne Alnico type uses a voice coil that ounds the magnet. It has been found, ever, that the interaction of the voice coil the magnet will eventually cause the net to partially demagnetize. The result is ss of sensitivity and a muddy bass sound. ne ceramic magnet poses a different olem. Here the voice coil moves around pole piece and is surrounded by the net. The thinner magnet, however, creates earance problem for the voice coil. he Altec Lansing hybrid magnet design bines the best of both magnet types. The design still has the magnet around the e coil, but the new "top hat" design inates the clearance problem. f course the one thing we would never nge is the quality that Altec Lansing is wn for. We still make all our own speaker ponents and all our bookshelf speakers finished with real wood veneers. o if you're looking for top performance ibined with the classic appearance of a kshelf speaker, ask your Altec Lansing ler for a demonstration of the Series II akers. We don't think you'll have to look further.



57cm H x 30.5cm W x

30 lbs. - 27.2 kg (2 units per carton)

26 lbs. - 11.8 kg

28 cm D

NET WEIGHT:

SHIPPING WEIGHT:









x 38.1cm D

64 lbs. - 29 kg

56 lbs. - 25.4 kg

63.5cm H x 40.6cm W

491/4 lbs. - 22.3 kg

433/4 lbs. - 20 kg

x 35.9cm D

hotes are for illustrative purposes only not may not reflect latest model changes.	(A) MODEL ONE SERIES II	(B) MODEL THREE SERIES II	(C) MODEL FIVE SERIES II	(D) MODEL SEVEN SERIES II	(E) MODEL NINE SERIES II
SPEAKER COMPONENTS		2 0-200			A CORNER OF THE PROPERTY OF THE PARTY OF THE
LOW FREQUENCY:	8" bass driver	10" bass driver	12" bass driver	12" bass driver	12" bass driver
MID FREQUENCY:				61/2" frame cone driver	61/2" frame cone driv
HIGH FREQUENCY:	4" frame cone driver	4" frame cone driver	2 each 4" frame cone drivers	4" frame cone driver	5" frame cone driver
NOMINAL IMPEDANCE:	8 ohms	8 ohms	8 ohms	8 ohms	8 ohms
CROSSOVER FREQUENCY:	3500 Hz	1500 Hz	1500 Hz	850 Hz, 8 kHz	800 Hz, 7 kHz
ENCLOSURE TYPE:	Sealed	Vented	Vented	Vented	Vented
SENSITIVITY: Measured at 4 feet, 1 watt i	89 dB SPL input referenced to 8 ohms,	90.5 dB SPL using pink noise which has	91.5 dB SPL been limited to a bandwid	90 dB SPL th of 500 Hz to 3 kHz.	93 dB SPL
FREQUENCY RESPONSE:	50 Hz to 20 kHz	50 Hz to 20 kHz	45 Hz to 20 kHz	45 Hz to 20 kHz	40 Hz to 20 kHz
DISPERSION: Measured with pink noise lin	120" at -6 dB vertical 125° at -6 dB horizontal mited to bandwidth of 800 H	120° at —6 dB vertical 140° at —6 dB horizontal z — 8 kHz at a distance o	90° at —6 dB vertical 120° at —6 dB horizontal f 4 feet.	120° at —6 dB vertical 130° at —6 dB horizontal	110° at —6 dB verti 115° at —6 dB horiz
LONG TERM BROAD BAND MAXIMUM POWER: Measured with a source of	30 watts pink noise limited to the fro	35 watts equency response bandwidth	45 watts n of the system, over an ext	50 watts tended time period.	60 watts
AMPLIFIER OPERATING RANGE:* Recommended minimum and	10 watts to 75 watts maximum amplifier power.	10 watts to 100 watts	12 watts to 150 watts	15 watts to 200 watts	12 watts to 250 watt
LONG TERM MAXIMUM ACOUSTIC OUTPUT: Measured with a source of	104 dB SPL at 30 watts pink noise limited to the fr	106 dB SPL at 35 watts equency response bandwidt	108 d8 SPL at 45 watts h of the system at a distance	107 dB SPL at 50 watts of 4 feet.	110.5 dB SPL at 60
FINISH:	Hand-rubbed oiled walnut	Hand-rubbed oiled oak	Hand-rubbed oiled walnut	Hand-rubbed oiled walnut	Hand-rubbed oiled o
GRILLE:	Acoustically transparent brown knit fabric mounted on removable frame	Acoustically transparent black knit fabric mounted on removable frame	Acoustically transparent black knit fabric mounted on removable frame	Acoustically transparent foam mounted on removable panel. Choice of black or brown	Acoustically transpr panel. Choice of bla foam mounted on re brown
DIMENSIONS:	22√2"H x 12"W x 11"D	24"H x 12½"W x 11½"D	25½"H x 14½"W x 12"D	25"H x 16"W x 141/a"D 63 5cm H x 40 6cm W	26½"H x 17½"W x 67.3cm H x 44.5cm

60.9cm H x 31.8cm W

321/2 lbs. - 14.7 kg

261/4 lbs. - 12 kg

x 29.2 cm D

64.8cm H x 36.8cm W

381/4 lbs. - 17.4 kg

32 lbs. - 14.5 kg

x 30.5cm D

^{*}Amplifier operating range is for amplifier selection guidance only. Do not mistake it for the speaker's power capacity. Refer to page 16 for further clarification



AST FOR THE EARS ur Contemporary Floor-Standing Models

ssionals in the music industry — recording engineers. cians, acoustical engineers - all demand and expect osest thing to realism in sound reproduction. For four des Altec Lansing has met this challenge in producing standards for the industry.

w we offer our latest contribution in professional oring to home Hi Fi buyers. Our intense engineering rch has resulted in dynamic new performance in al systems. And we have found overwhelming evie to prove that proper tuning for vented enclosures esult in superb low frequency performance. ur floor-standing models speak for the quality, profeslism and creativity of design that is Altec Lansing. include the Model 19, Model 18, Model 15, and the ana II — each one utilizing components that are ned and manufactured exclusively by Altec Lansing.

ot for the 18, each system may stand freely in a room peautiful hand-rubbed wood on all sides. e top-of-the-line Model 19 as well as the Models 18 5 utilize a new high-frequency driver built around the erineTM radial phase plug. And there's an innovative dividing network/equalizer featuring both mid- and frequency level controls. The Model 18, developed ifically for critical, professional studio monitoring, res the 604-8H speaker, the reference standard of the ding industry for decades. The 604-8H features a new design which we call Mantaray™*. The Mantaray is a ue design in horn technology. It is the product of very isticated computer analysis of horn and driver dance, amplitude and directivity characteristics. a true "constant directivity" design, which means that lispersion is constant at all frequencies: a theoretical enge which is now a reality.

empleting the floor-standing line is the Santana II, a way system with 12-inch bass driver and a 5-inch -frequency driver. The Santana II is walnut with position-slate top, a perfect balance of great sound

functional furniture.



knit fabric mounted on

removable frame, Black

brown with oak cabinet

supplied with walnut,

39"H x 30"W x 21"D

with base and grille

166 lbs. - 72.3 kg

143 lbs. - 64.9 kg

x 53.3cm D

99.6cm H x 76.2cm W





foam mounted on remov-

with walnut, brown with

27"H x 22"W x 151/2"D

68.6cm H x 55.9cm W

with base and grille

84 lbs. - 38.1 kg

76 lbs. - 34.5 kg

oak cabinet

x 38.7cm D

mounted on removable frame able panel. Black supplied



	1546 1250 157	144	•	
hotos are for illustrative purposes only and may not reflect latest model changes.	(A) NINETEEN •	(B) EIGHTEEN .	(C) FIFTEEN .	(D) SANTANA II
SPEAKER COMPONENTS LOW FREQUENCY:	15" bass driver (416-8B)	15" driver with coaxially mounted constant-directivity control horn and compression driver (Model 604-8H)	12" bass driver	12" bass driver
HIGH FREQUENCY:	Radial Phase Plug driver mounted to 811B sectoral horn		Radial Phase Plug driver mounted to curved radial horn	5" frame cone driver
NOMINAL IMPEDANCE:	8 ohms	8 ohms	8 ohms	8 ohms
CROSSOVER FREQUENCY:	1200 Hz	1500 Hz	1700 Hz	2500 Hz
ENCLOSURE TYPE:	Vented	Vented	Vented	Vented
SENSITIVITY: Measured at 4 feet, 1 watt input	99 dB SPL** , using pink noise which has be	103 dB SPL en limited to a bandwidth of 50	93 dB SPL** 00 Hz to 3 kHz.	89 dB SPL
FREQUENCY RESPONSE:	30 Hz to 20 kHz	30 Hz to 20 kHz	30 Hz to 20 kHz	40 Hz to 20 kHz
DISPERSION: Measured with pink noise limite	105° at —6 dB vertical 105° at —6 dB horizontal d to a bandwidth of 500 Hz —	50° at —6 dB* vertical 70° at —6 dB* horizontal 8 kHz at a distance of 4 feet.	120° at —6 dB vertical 120° at —6 dB horizontal	130° at —6 dB vertica 130° at —6 dB horizon
LONG TERM BROAD BAND MAXIMUM POWER: Measured with a source of pink	65 watte**	65 watts	60 watts** stem over an extended time p	45 watts eriod.
AMPLIFIER OPERATING RANGE:*** Recommended minimum and ma	10 watts to 350 watts ximum amplifier power.	10 watts to 350 watts	12 watts to 250 watts	12 watts to 150 watts
LONG TERM MAXIMUM ACOUSTIC OUTPUT: Measured with a source of pink	117 dB SPL at 65 watts**; noise limited to the frequency	118 dB SPL at 65 watts response bandwidth of the sy	108 dB SPL at 60 watts** stem at a distance of 4 feet.	107.5 dB SPL at 45 wa
FINISH:	Hand-rubbed oiled walnut or oak	Hand-rubbed oiled oak	Hand-rubbed oiled oak or walnut	Hand-rubbed oiled wal with composition slate
GRILLE:	Acoustically transparent	Visually and acoustically	Acoustically transparent	Acoustically transpare

0000	11.	- 6	1.1.1.
800	mz -	- 0	KITZ

SHIPPING WEIGHT:

DIMENSIONS:

NET WEIGHT:

67 lbs. - 30.4 kg

57 lbs. - 25.9 kg

black knit fabric mour

25%"H x 19"W x 16"

65.9cm H x 48.3cm W

x 40.6cm D

on removable frame

transparent knit fabric

40"H x 26"W x 18"D

102cmH x 66cmW

168 lbs. - 77.1 kg

138 lbs. - 62.6 kg

x 45.7cm D

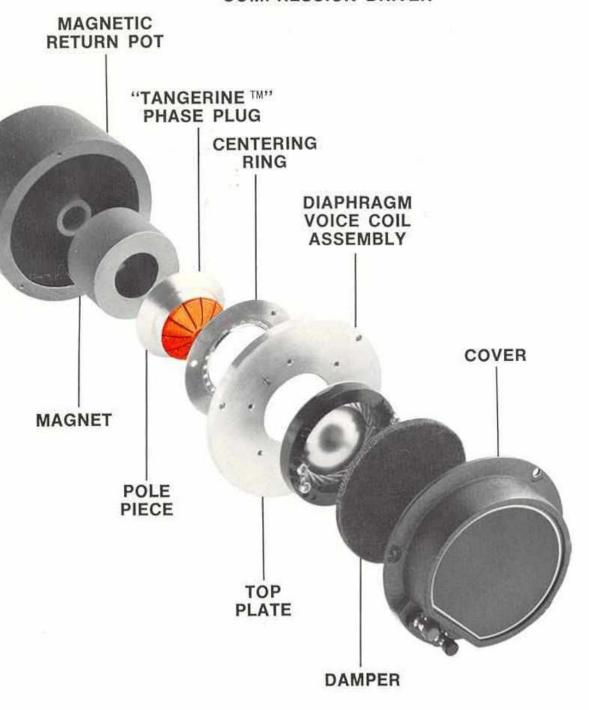
[&]quot;Measured with shelving controls set at optimum.

TangerineTM radial ph

^{* **} Amplifier operating range is for amplifier selection guidance only. Do not mistake it for the speaker's power capacity. Refer to page 16 for clarification.



HIGH FREQUENCY COMPRESSION DRIVER



INTRODUCING THE TANGERINE™

High frequency compression drivers used by most companies contain a circumferential type phase plug which was developed by our noble ancestor, Western Electric, in the 1920's.

Our new radial plug, the TangerineTM—looking very much like a peeled tangerine and hence its name — allows far more high-frequency energy to enter the horn than traditional phase plugs. And so high-frequency response is extended.

The super Models 19, 15, A7X, and 18 all feature this remarkably improved element along with an improved equalizer/crossover network that permits smooth, gradual equalization of the mid and high frequencies.

... and the improved 802-8G Driver

In addition to the Tangerine™ phase plug design, the 802-8G employs stronger, lighter epoxies for a lighter moving assembly and improved power capacity. This new high-frequency driver also features subcrossover resonance and equalized pressure loading for lower distortion.

ICE OF THE THEATRE - A Legend

Voice of The Theatre. Known by name, wen by sight and known by reputation as

gend.
In the 1950's the Academy of Motion Picture is and Sciences officially recognized the Voice the Theatre as the standard in motion picture atre sound. Once an exclusively professional duct, it became the system demanded by diophiles who insisted on its unparalleled sence and efficiency for their homes.

Today, the excitement, drama, emotion and lism of movie sound is duplicated by the ce of The Theatre.

Tight low-frequency response, high-frequency jection and power handling capability, trade-

right in and power handling capability, traderiks of the Voice of The Theatre, are refined new levels of perfection in our all-new A7X. tilizes the patented TangerineTM radial phase g in the powerful 802-8G driver, and the new del N1201-8A equalizer/dividing network a crossover frequency of 1200 Hz.

Excellent frequency response, bandwidth, power capacity and acoustic output are all featured in this system and must be experienced to be believed.



15" bass driver (416-88)
 802-8G compression driver mounted to 511B sectoral horn
8 ohms
1200 Hz (N1201-BA network)
Horn-loaded with reflex port
100 dB SPL has been limited to a bandwidth of 500 Hz to 3 kHz.
45 Hz to 20 kHz
60° at —6 dB vertical 90° at —6 dB horizontal
100 watts dth of the system, over an extended time period.
10 watts to 350 watts
120 dB SPL at 65 watts dth of the system at a distance of 4 feet.
Metallic gray
52¼"H x 30"W x 24"D 137.8cm H x 76.2cm W x 61.2cm D
163 lbs. — 76.2 kg
142 lbs. — 64.54 kg

angerine^{1M} radial phase plug.

nplifier operating range is for amplifier selection guidance only. Do not mistake it for the speaker's power capacity. Refer to page 16 for other clarification.



ENDED RANGE LOUDSPEAKERS

8H (15") Duplex Monitor.

a standard of the professional recording stry, the 604 series presents a degree of ction known to no other single precision ducer. Outstanding efficiency is the result high-frequency driver and horn coaxially nted to a highly efficient low-frequency ker. The unique constant-directivity horn call it MantarayTM) * produces the same ersion pattern regardless of frequency. Once ded as a theoretical impossibility, it is now lity. A unique, dual-variable equalizer/ ing network is included.

(4").

s size, the 405A will reproduce speech ly and music well with a frequency response to 1500 Hz. It performs admirably in an sure between 1/4 and 1 cubic foot, and ins a favorite in automobile sound lations.

LOW FREQUENCY LOUDSPEAKERS

416-8B (15").

As the woofer used in the A-7 series Voice of The Theatre Systems, the professional quality 416-8B yields smooth response with extraordinary linearity. It combines nicely with an Altec Lansing compression driver, sectoral horn, and dividing network.

411-8A (15").

A woofer of medium efficiency, the 411-8A is designed to work in a sealed enclosure having an internal volume range from 4 to 8 cubic feet.

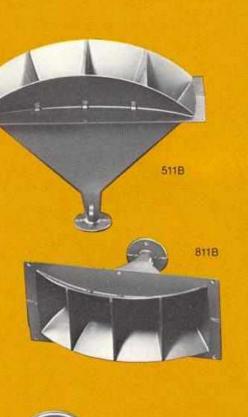
414-8C (12").

Used extensively in high accuracy reproduction as well as in professional studios, the 414-8C has the power capacity for excellent high fidelity. It is designed for use in 21/2 to 10 cubic feet enclosures.

	604-8H ·	416-8B	411-8A	414-8C	405A
ANCE:	8 ohms	8 ohms	8 ohms	8 ohms	8 ohms
OVER ENCY:	1500 Hz		VENERAL PRE		o omno
SIONS:	16" (40.6 cm) diameter 11%" (28.3 cm) deep	16" (40.6 cm) diameter 7" (17.8 cm) deep	15%6" (38.9 cm) diameter 5%" (14.9 cm) deep	12¼" (31.1 cm) diameter 5¾" (14.6 cm) deep	4%" (11.1 cm) square 21%" (5.4 cm) deep
T:	34.0 lb. 15.4 kg (includes dividing network)	17½ lb. 7.9 kg	20½ lb. 9.3 kg	15 lb. 6.8 kg	2 lb. 0.9 kg
:	Dark gray enamel	Dark gray enamel	Dark gray enamel	Dark gray ename!	Gray enamel
ING DATA— OPENING:	141/a" (35.9 cm) (front or rear mounting)	14½" (35.9 cm) (front or rear mounting)	14%" (35.9 cm) front mounting 13%" (34.9 cm) rear mounting	111/6" (28.3 cm) diameter (front or rear mounting)	4% (10.6 cm) front mounting 31% (9.7 cm) rear mounting
ING BOLT	8 or 4 bolts equally spaced on 15" (38.1 cm) dlameter circle	8 or 4 bolts equally spaced on 15" (38.1 cm) diameter circle	145%" (37.1 cm) diameter circle	4 bolts equally spaced on 11%6" (29.4 cm) diameter circle	4 bolts equally spaced at 90° on 411/4" (11.9 cm) diameter circle
MENTARY NENTS:	Dual equalizer dividing network (supplied)	811B horn, N1201-8A network 802-8G driver, 511B horn,	811B horn, 802-8G driver, 511B horn,	802-8G driver, 811B horn, N1201-8A network	

rineTM radial phase plug. and Foreign Patents pending.







802-8G



HIGH-FREQUENCY LOUDSPEAKERS

511B, 811B Sectoral Horns.

The wide horizontal shaping of the cast aluminum sectoral horn tightly controls the very important dispersion pattern of sound. When equipped with a compression driver, these horns reproduce the full range of frequencies, while maintaining uniform directivity.

802-8G High-Frequency Compression Driver.

Compression drivers are capable of a much wider bandwidth and vastly higher sensitivity than cone-type high frequency reproducers, making possible extremely high sensitivity in two-way systems when coupled with appropriate bass speakers. The TangerineTM radial phase plug in the 802-8G yields extended frequency response.

N1201-8A Equalizer/Dividing Network.

WALL PREDUCENCY

Altec Lansing precision crossover networks are designed to optimally match the frequency response of compression drivers and horns to bass drivers. The highly sophisticated Model 19 and A7X monitor systems contain the remark N1201-8A variable equalizer/dividing network which offers smooth, gradual equalization. If feature is highly desirable in adjusting speal to the acoustic properties of the room and to personal listening tastes.

COMPRESSION DRIVER		SECTORAL HORN	S	DIVIDING	
7	802-8G *	511B	8118	N1201-	
IMPEDANCE:	8 ohms	_		8 ohm:	
MINIMUM CROSSOVER FREQUENCY:	1200 Hz*	500 Hz	800 Hz	1200 F	
DIMENSIONS:	4½" (11.43 cm) diameter, 3½" (9.7 cm) deep	10%"H x 23½"W x 18½"D 27.0cm H x 59.7cm W x 47.0cm D	85/e"H x 181/2"W x 131/2"D 21.9cm H x 47.0cm W x 39.3cm D	7½"H x 8½" 19.0cm 11.4cm 22.8cm	
WEIGHT:	7 lb. 3.18 kg	12.3 lb. 5.6 kg	9 lb. 4.1 kg	4 lb. 1.8 kg	
FINISH:	Dark gray enamel	Flat black	Flat black	Flat b	
COMPLEMENTARY COMPONENTS:	511B, 416-8B, 414-8C, N1201-8A, 811B	802-8G, 411-8A, 416-8B, N1201-8A	802-8G, 411-8A, 416-8B, 414-8C, N1201-8A	811B, 416-81 802-81	

Tangerine™ radial phase plug.

^{*}The 802-8G may be used as low as 500 Hz with system input power not exceeding 35 watts.

MPONENTS AND THEIR MATCHING SYSTEMS

to are planning to build your own enclosto, we have provided for you a set of guideto for completing a variety of systems. For convenience, we have provided this sysguide with which to select the compos that will best suit your needs.





CIFICATIONS DEFINED

is their significance? are they measured?

eaker manufacturers have their nethods for evaluating and rating rformance of their products, and sal measuring techniques for characteristics are impossible to be. While we cannot offer a means iphering other manufacturers' ications, we do offer an explanation our own.

ker Components

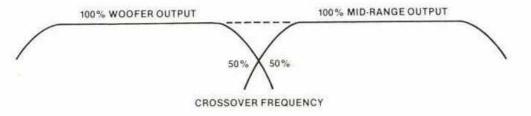
our low-frequency and midency drivers utilize cones as the g elements. Our high-frequency s are either cone drivers or comion drivers, depending on the I you select. Compression drivers ly produce a wider range of frecies and have greater sensitivity, e more expensive and require n to disperse their energy. e size of the driver itself does not what the performance will be like. we are trying to accomplish with roducts is optimum performance a given set of parameters. Size, and the laws of physics dictate can be done. Certain tradeoffs ing woofer size, efficiency, enclosze, and low frequency response acteristics are made in order to ize performance.

Nominal Impedance

All of our high fidelity products are now standardized at 8 ohms impedance. It is important to know the impedance when operating more than one set of speakers at a time, since adding speakers in parallel lowers the impedance. If the impedance drops too low, it can endanger the amplifier. "Zero ohms" is a short circuit; potentially, disaster to an amplifier.

Crossover Frequency

The crossover point(s) for each system is specifically selected to optimize the overall performance of that system. The crossover frequency indicates the point at which the response of two speaker components (such as a woofer and mid range) intersect, or cross over. It is important to know that this is not the point at which a driver stops operating; rather, it is the point at which the driver radiates about 50% of its mean output level, and continues to radiate energy below (or above) this point.



Enclosure Type

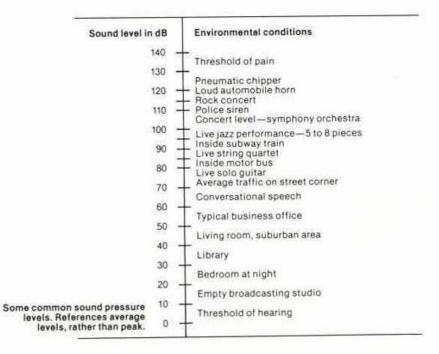
In its more than 40 year history, Altec Lansing has developed systems using nearly every major type of enclosure tuning method, and we have many different types in use today. Vented and conventional reflex, horn loaded, sealed enclosures. Why does Altec Lansing not subscribe to the hypothesis that one tuning method is clearly better than any other? Because there is no one universally best method. Altec Lansing selects its tuning method as part of a total package of parameters to deliver the most desirable low-frequency performance from a given product-a study in performance optimization.

Sensitivity

Sensitivity, or efficiency, is one most important, yet most overloperformance parameters. It ind how efficient a unit is, how must acoustic output it can deliver for given amount of electrical inpularger the number, the more se or efficient, the unit is. For exar speaker with a sensitivity rating 100 dB SPL will deliver 10 time acoustic output of a speaker wirating of 90 dB SPL given the samount of input power. This is the difference between a 10-was fier and a 100-watt amplifier!

Why consider a speaker of n sensitivity? Sensitivity is expeneither costs money, size, respon the low and high ends of the auband, distortion, or a combinat

all of these.



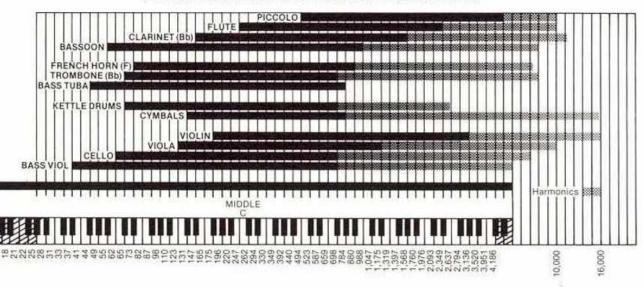
uency Response

ency response tells us the pracmits at the extremes of the audio and is always measured directly it of the center of a speaker, a you would never sit when listenstereo. And the fact is that ency response can change draswith a very slight movement of easuring point.

quency response cannot tell you much bass or treble" a speaker oduce; it cannot, nor can any ication or group of specifications, u how a speaker will sound—only devised and careful listening test of that.

our recommendation that you se the ultimate option—the listenst—as the deciding factor for ing a speaker system. Your Altecing dealer will provide the best ble listening environment and arison facilities—use them.

FREQUENCY RANGES OF MUSICAL INSTRUMENTS



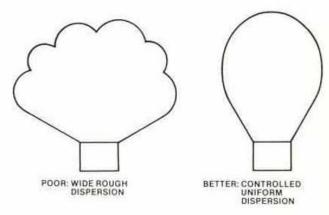
Dispersion

This specification tells us how much and in what pattern a speaker system spreads out its energy. Since, as a general rule, higher frequencies spread their energy less than lower frequencies, we use a high-frequency signal to measure the dispersion of our speakers.

"90° at -6 dB horizontal" means that if we were to look at an arc 90° wide, with the center directly in front of the speaker, the amount of energy at the edges of the arc would be 6 dB less than or about 25% of that at the center.

Is dispersion good or bad? An adequate dispersion pattern is required to convey a good stereo image and to prevent "beaming" (concentrating the sound directly in front of the speakers).

But too broad a dispersion pattern can distort the stereo panorama or cause frequency cancellation by environmental surface reflection, a frequent problem with most omnidirectional speakers.



ng-Term Broad-Band eximum Power

s is the "worst case" rating and is ch more severe than normal use. It is system is driven using pink noise that has been limited by electronic wing to its frequency response band-th. It is then driven for several hours. For a successful test, the power is reased in 5-watt increments. The trial is tested until it fails, and the rating and is the level of the step used fore failure.

Amplifier Operating Range

Amplifier operating range is the range of minimum to maximum amplifier power that should be used with the unit. This allows for a larger amplifier which can easily pass high-level power peaks in the program material — peaks which are often more than 10 times the average program level.

Although a large amplifier can damage speakers, so can a small one. Keep in mind that an amplifier's rating is at or below a given distortion level; this does not mean the amplifier will cease to generate power at this point. Some amplifiers are capable of power greatly exceeding their "rated" power, but it is highly distorted and with greater damaging potential than an undistorted signal at the same level.

Most any amplifier can damage a speaker. To prevent speaker burnout, use common sense, and discuss it with your Altec Lansing dealer. When the signal becomes distorted, you are over-driving the speaker, or amplifier, or both. And remember, the tone controls increase output just as the volume control does, so avoid large amounts of tone compensation at high levels.

Long-Term Maximum Acoustic Output

This is a measure of how loud a system can play. It takes into consideration both power handling and sensitivity. Measurement is made at the long-term, broadband, maximum power level. The larger the number, the higher the level. The system is capable of more output for short term power peaks, just as it is capable of more power input than specified, but not on an extended time basis.

*A Note on "Pink Noise"

Most of our specifications are measured with pink noise as opposed to white noise because pink noise most closely duplicates the effect of music on speaker components under controlled test conditions. Pink noise is a constant amount of energy per octave, while white noise, sometimes used by other manufacturers, is a constant amount of energy per cycle. Due to the extreme difference in Hertz from octave to octave, white noise measurements can distort the specification's meaning.



Your Altec Lansing Dealer is:



mestic Offices:

Altec Lansing International 1515 So. Manchester Avenue Anaheim, California 92803 U.S.A.

Telephone: 714/774-2900

Telex: 65-5415

10500 West Reno Avenue Oklahoma City, Oklahoma 73126 U.S.A.

Telephone: 405/354-5311

Telex: 74-8510

ernational Offices:

17 Park Place Stevenage Hertfordshire SGIIDU, England Telephone: 0438-3241

Telex: 825495

Altec Lansing of Canada, Ltd., 151 Carlingview Dr., No. 5, Rexdale, Ontario Canada M9W5E7 Telephone: 416/675-1177

Telex: 06-968634

FULL 5-YEAR WARRANTY

Altec Lansing has always been a manufacturer of fine audio equipment. And we are one of only a few manufacturers who back up their products with a full five-year warranty.

Altec Lansing warrants all loudspeaker systems to be free from defects in materials and workmanship for a period of five years from the date of purchase. For warranty repair, the defective product should be delivered to an authorized Altec Lansing Servicing Dealer, authorized warranty station, or Altec Lansing factory repair center. In addition, the warranty may be transferred to any subsequent owners during the five-year warranty period.

A thorough Warranty Protection statement is enclosed with each Altec Lansing unit purchased.