

1978

Sound Equipment for Musicians

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Archiv Michael Otto
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ALTEC
LANSING

A NEW GENERATION OF DEPENDABLE PERFORMERS

Few manufacturers of sound systems have become recognized by professionals as leaders in the field of *quality* sound equipment.

These leaders outperform their many imitators, choosing not to simply add gadgets, but make significant improvements to sound technology by designing *capability* into systems—not just hardware. They understand the musician's lifestyle and the rigors of professional touring, so they design units worthy of their names.

One member of this elite group professionals trust is Altec Lansing, providing the finest in musical support equipment. Column speakers, reinforcement systems, stage monitors and components represent Altec Lansing's recent contributions to electro-acoustic technology. Modular construction of amplifiers and consoles ensures uniform quality and hassle-free service.

And because at Altec Lansing we take your trust in our leadership seriously, we are determined to meet the challenges of staying on top. Our speaker systems are the strongest ever, with greater power capacity than ever before. Our revamped high-frequency driver delivers better response with less distortion. Other new loudspeakers can be selected which enhance specific sounds for specific instruments. And versatile new exterior design features prove that we've been listening to your professional traveling problems and devising solutions. We build our gear to work, and work hard—just like you do.

Altec Lansing's complete line makes it possible for you to expand your sound system as your needs change, one reason so many professional performers use Altec sound systems throughout their careers. Great sound backed by the highest standards of excellence is our business—as well as yours.



PERFORMANCE: Improved!

As a manufacturer of high-quality professional equipment, Altec Lansing is continually searching for genuine performance improvements. And with our new generation of dependable performers we've improved durability, portability, efficiency, and overall performance.

As you read through our catalog, look for these improved features:

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High-Frequency Design

Intensive R&D at Altec has resulted in the introduction of the Tangerine™* radial phase plug. This invention, which resembles a peeled tangerine, is standard equipment in the 808-8B compression driver. It extends high-end response while significantly reducing distortion.

*Reg. U.S. Patent No. 4,050,541;
Foreign Patents Pending

Low-Frequency Design

Computer-aided research into vented enclosures at Altec's acoustic laboratories has defined new parameters resulting in excellent low-frequency performance. Altec designers can accurately predict the low-frequency response of a system before building it, making optimum bass response selection possible.

In-Between Design

By varying the equalization controls of the new variable equalizer/dividing network, you can modify the characteristics of the system's response to match your artistry and to compensate for acoustic variations. The mid-frequency adjustment in some of the systems, in addition to the traditional high-frequency control, adds three-way versatility to a two-way speaker system, without the problems inherent in three-way designs.

Power Capacity

Many of our new generation speaker systems feature 125-watt power capacity. Combined with Altec efficiency, high acoustic output is a reality. This becomes extremely important when transient peaks in music occur: Altec speakers have the efficiency and power capacity to ensure clean, distortion-free reproduction.

Biamp Readiness

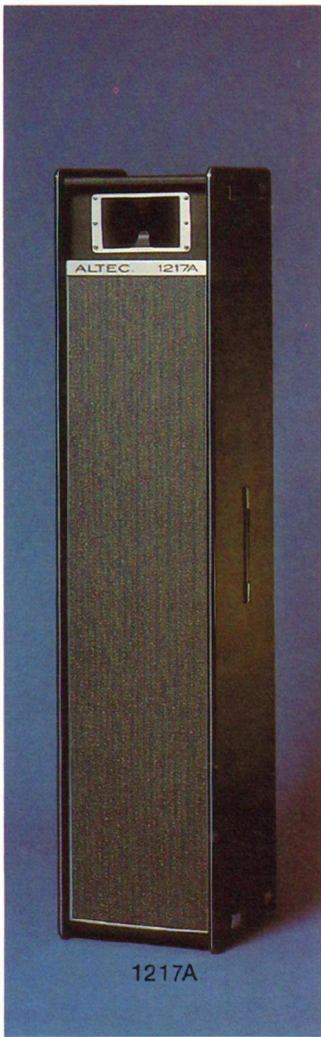
Each of Altec Lansing's new loud-speaker systems (with the exception of the 1230) contains a removable panel that covers an area exactly the size of Altec's Model 1224A biampifier. Installation is accomplished by simply removing the system's dividing network and hooking up the 1224A directly to the system's individual drivers.

New Exteriors

Each of the new generation of dependable performers is finished in black leather-grained vinyl (with the exception of the traditional gray-lacquered 1236). Several of the models are equipped with a durable black knit grille, and designed for ease in handling.

Reliability and Serviceability

A FULL WARRANTY! Altec Lansing sound equipment for musicians is warranted to be free from defects in materials and workmanship for one year from date of purchase (five years for the 9440A and 1224A amplifiers). See your dealer for complete details.



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MULTIPLE APPLICATION SPEAKER SYSTEMS

1217A Two-Way Column Speaker

Maximum clarity from a column: The Altec 1217A. Featuring the best of both dispersion control and high-frequency brightness, the 1217A's six 8-inch speakers and compression driver and horn deliver performance unmatched by two-way systems costing much more.

1230 Multi-Purpose Speaker System

Portable and highly efficient, the 1230 system is an all-around professional problem-solver. Because of its very portable size and unique multi-sided configuration, the 1230 requires little space yet delivers big system sound. This means more sound in less space with less wattage from the amp. In addition to exceptional efficiency, the system has excellent projection qualities. The 1230 is ideal as an all-purpose problem solver for road tours, and is at home on-stage in clubs as a monitor.

1231 Multi-Purpose Speaker System

Designing the perfect stage monitor is no easy task. In addition to being loud, the monitor has to *sound* great—not honky or boomy, but sweet, crisp, and full. The result is that you sound like

you. To accomplish this we chose a two-way system utilizing a 12-inch bass speaker in a vented cabinet for tight, clean bass and good mids. For high-end articulation, absolutely essential to vocal realism, we found a curved radial horn and Tangerine™*-equipped compression driver provide the ideal combination of punch and sweetness. The unique shape of the 1231's cabinet permits selection of tilt angle, 30, 50, or 90 degrees.

*Reg. U.S. Patent No. 4,050,541; Foreign Patents Pending

PORTABLE "VOICE OF THE THEATRE" SYSTEMS

1233 Speaker System

Because of its compact size, high efficiency and power capacity, the 1233 meets the requirements of traveling musicians who demand portability and reliability night after night in concerts and nightclubs. The 1233 is portable and strong, delivering loud but undistorted power and tight, solid Altec Lansing bass.

1234 Speaker System

Built to be used under loud-sound, large-environment conditions, the 1234 delivers an impressive performance marked by solid power capacity and

efficiency. Front casters and rear towbar make for easy and quick portability for even the most difficult bookings. This type of system has long been a favorite of traveling gospel groups.

1235, 1236 Portable Horn-Loaded Speaker Systems

We've mated our strongest 15-inch bass loudspeaker with a combination sectoral horn and newly-designed high-frequency driver to produce sound so full and clean you'll have to experience it to believe it.

The 1235 (utilizing the 816V enclosure) possesses the efficiency and projection of the larger 1236 but with slightly less low-bass response. The compact 1235, complete with corner guards and carrying handles, features a black, leather-grained vinyl covering.

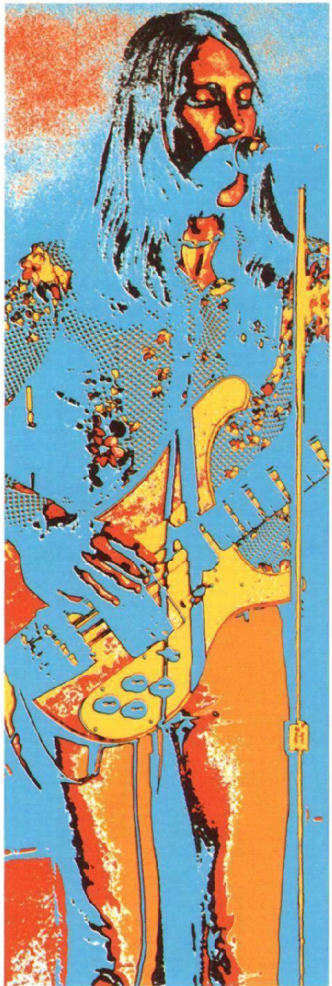
The gray lacquer-finished 1236, built for use in large clubs, halls, and concerts, is the leader in superior top-end performance and full bass response. The 828C enclosure used with this system allows placement of the HF horn on top of the cabinet, or inside the cabinet behind the black knit grille.

Both the 1235 and 1236 are shipped in two sections, with assembled cabinets packed separate from the components.

Model	1217A	1230	1231	1233	1234	1235/816V	1236/828C
Speaker Components—							
Low-Frequency:	(6) 8" bass driver	12" bass driver/ coaxially-mounted compression driver and horn	12" bass driver	421-8 LF 15" bass driver	421-8 LF 15" bass driver	421-8 LF 15" bass driver	421-8 LF 15" bass driver
High-Frequency:	Sectoral horn and compression driver		Curved radial horn and compression driver	811B sectoral horn, 808-8B compression driver	511B sectoral horn, 808-8B compression driver	511B sectoral horn, 808-8B compression driver	511B sectoral horn, 808-8B compression driver
Biampl-Ready*	No	No	Yes	Yes	Yes	Yes	Yes
Nominal Impedance:	12 ohms	8 ohms	8 ohms	8 ohms	8 ohms	8 ohms	8 ohms
Crossover Frequency:	3,500 Hz	Dual full-section 1500 Hz crossover, 12 dB/octave slope	2000 Hz dual LC network, 12 dB/octave slope	1200 Hz dual LC network, 12 dB/octave slope	1200 Hz dual LC network, 12 dB/octave slope	1200 Hz, 12 dB/ octave slope, and continuously variable independent HF and MF attenuators with 0 to -8 dB range (Model N1209-8A)	1200 Hz, 12 dB/ octave slope, and continuously variable independent HF and MF attenuators with 0 to -8 dB range (Model N1209-8A)
Enclosure Type:	Sound column	Infinite baffle	Vented	Vented	Vented	Vented low-frequency horn	Vented low-frequency horn
Sensitivity: Measured at 4 feet, 1 watt input, using band-limited pink noise** (500 Hz-3kHz)	97.5 dB SPL	98 dB SPL	97 dB SPL	100.5 dB SPL	100.5 dB SPL	103 dB SPL	104 dB SPL
Frequency Response:	80 Hz to 15 kHz	80 Hz to 15 kHz	70 Hz to 15 kHz	50 Hz to 20 kHz	50 Hz to 20 kHz	35 Hz to 20 kHz	50 Hz to 20 kHz
Long-Term Broad-Band Maximum Power: Measured with a source of pink noise limited to the rated frequency response of the system over an extended time period	75 watts	60 watts	120 watts	120 watts	120 watts	125 watts	125 watts
Operational Power Range: Maximum safe amplifier size for passing high-power peaks	100 watts	100 watts	250 watts	250 watts	250 watts	250 watts	250 watts
Long-Term Maximum Acoustic Output: Measured with a source of pink noise limited to a bandwidth of the system at a distance of 4 feet	116 dB SPL at 75 watts	116 dB SPL at 60 watts	118 dB SPL at 120 watts	122 dB SPL at 120 watts	122 dB SPL at 120 watts	124 dB SPL at 125 watts	125 dB SPL at 125 watts
Cabinet:	Black leather- grained vinyl covered; knit cloth grille; vinyl edge protectors; carrying handle	Black leather- grained vinyl covered; knit cloth grille; vinyl edge protectors; carrying handle	Black leather- grained vinyl covered; reversible knit cloth grille; recessed handles; edge protectors	Black leather- grained vinyl covered; knit cloth grille; recessed handles; corner guards	Black leather- grained vinyl covered; steel front legs; rear casters; tow bar; edge guards; knit cloth grille	Black leather- grained vinyl covered; interlocking stacking cups; corner guards; recessed handles; knit cloth grille	Gray metallic lacquer finished, knit cloth grille
Dimensions:	62" (157.5 cm) H; 14" (35.6 cm) W; 14" (35.6 cm) D	19.5" (49.5 cm) H; 22" (55.9 cm) W; 14" (35.5 cm) D	22½" (57.2 cm) H; 28" (71.1 cm) W; 22¾" (37.8 cm) D	33" (83.82 cm) H; 28" (71.12 cm) W; 19" (48.26 cm) D	45" (114.3 cm) H; 28" (71.1 cm) W; 27½" (69.9 cm) D	34" (86.4 cm) H; 30" (76.2 cm) W; 26" (76.2 cm) D 816V only; 21¾" (55.3 cm) H	(HF horn externally mounted) 54¼" (137 cm) H; 30" (76.2 cm) W; 24" (137 cm) D 828C only; 42" (106.7 cm) H
Weight:	85 lb, 38.6 kg	52 lb, 23.6 kg	64 lb, 29 kg	112 lb, 50.8 kg	147 lb, 54.34 kg	150 lb, 168 kg/ 100 lb, 45.4 kg	190 lb, 86 kg/ 130 lb, 59 kg
Typical Applications:	Small club main speakers, especially wide rooms with low ceilings	Stage monitor, main speaker for small to medium environment	Stage monitor, main speaker for small to medium environment	Stage monitor in large outdoor systems, main speaker for medium to large indoor environments, or limited coverage for outdoor environments	Stage monitor in out- door systems; main speaker for medium to large indoor environments, or limited coverage for outdoor environments	Medium to large indoor environments, and small to medium outdoor coverage	Medium to large indoor environments, and small to medium outdoor coverage

*Accepts 1224A Biamplifier directly into cabinet by removing panel.

**Pink noise more closely duplicates the effect of music under controlled test conditions than does white noise. 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 or sine wave measurements can distort the significance of the power rating specification.



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816V, and 828C Low-Frequency Horn-Loaded Enclosures

The vinyl-finished 816V is available without components and is delivered ready to accept a high-frequency driver and horn mounted externally, and network or biamp mounted in the back panel. Stacked 816Vs are secured using unique metal feet/stacking cups installed on the top and bottom of each cabinet. In this stacking arrangement, sound is controlled and focused to effect more accurate coverage. This is similar to a low-frequency sound column, yielding wider horizontal and narrower vertical coverage. The 816V, finished all-around in black leather-grained vinyl, easily resists wear, while dependably performing night after night, year after year.

The 828C is a favorite of professional musicians and sound engineers and remains one of the finest enclosures available. It may be ordered without components.

These precisely-tuned enclosures, constructed of high-density material and lined with absorbent damping material, each include removable panels for use in mounting the Altec N1209-8A dividing network or 1224A biamp.

808-8B High-Frequency Compression Driver

High sound pressure levels require not only sufficient bass level, but undistorted, extended high-frequency

response. Altec Lansing's 808-8B drivers are capable of delivering incredibly smooth response from 500 Hz to beyond 17,500 Hz. The field-replaceable Symbiotik diaphragm provides exceptional sensitivity to aid in handling high sound levels, whether transient or sustained. When matched with an appropriate Altec Lansing high-frequency horn, this driver exhibits uniform, peak-free reproduction.

The 808-8B driver, utilizing a 1 3/4-inch voice coil of edge-wound aluminum ribbon coupled to a Symbiotik diaphragm, maintains uniform, realistic sound over a wide range at substantial power levels.

Our revolutionary Tangerine™ in the 808-8B adds refinement to high-frequency performance. As a result of exploring new phase-plug geometry,

Altec Lansing engineers came up with the Tangerine™ radial phase plug which widens the frequency bandwidth at the high end and produces a smooth, low distortion stream of high-frequency energy.

The 8-ohm 808-8B has a power capacity of 100 watts of continuous musical program material, 300 watts instantaneous peaks, or 30 watts of continuous pink noise when measured on a 511B horn and limiting the input signal to the driver's frequency response, 500-17,500 Hz. On-axis sensitivity is an outstanding 104 dB SPL with 511B horn.

Model	Distribution Pattern	Low-Frequency Limit	Dimensions	Weight
511B	90°H x 40°V	500 Hz	10 5/8" H x 23 3/8" W x 18 1/2" D 27 cm H x 59 cm W x 48 cm D	12.25 lb 5.6 kg
811B	90°H x 40°V	800 Hz	8 5/8" H x 18 3/4" W x 13 1/2" D 22 cm H x 48 cm W x 34 cm D	9 lb 4.1 kg

Model	Impedance	Nominal Crossover Frequency	Dimensions	Weight	Complementary Components
N1209-8A	8 ohms	1200 Hz	7 1/2" H x 4 1/2" W x 8 7/8" D 19 cm H x 11.4 cm W x 22.5 cm D	3 lb 1.4 kg	511B 811B 808-8B 417-8H 418-8LF 421-8LF 421-8H



N1209-8A Frequency Dividing Network/Dual Band Equalizer

With a nominal 1200-Hz crossover and 12 dB/octave slope, the N1209-8A features a mid-frequency attenuator in addition to the high-frequency attenuator, bringing three-way versatility to two-way systems. The user can equalize the speaker system's response to match a wide variety of acoustic environments for optimum system power capacity and frequency control.

511B, 811B Sectoral Horns

Exponential expansion and straight throat configuration ensure uniform control of the sound dispersion pattern (90°H x 40°V) and exacting, high-quality reproduction of mid and high frequencies. Designed specifically for two-way sound systems, the 511B and 811B differ only in cutoff frequency (500 Hz and 800 Hz, respectively), and size.

Frequencies are distributed in a horizontal plane with little beaming, and distortion is virtually non-existent. Cast of lightweight aluminum, and featuring a front-mounting flange, these models are favorites for controlled dispersion and easy installation in high-level sound systems.

LOUDSPEAKERS FOR MUSICIANS

Low-Frequency Drivers

Altec Lansing cone-type loudspeakers, when enclosed in appropriately tuned cabinets, supply the performance you want for professional sound — high efficiency that makes the most of each watt of input, and the ability to sustain the transient peaks in your music.

Special heat-dissipating aluminum coil supports and extremely rugged copper voice coils permit extensive use of the speakers with minimal chance of burnout.

Our latest line of musical sound speakers, the "8LF" series, utilizes a new cone pulp resulting in a softer, mellower low end sound.

Model	417-16 LF, 417-8H II	418-8 LF, 418 8H II	421-8 LF, 421-16 LF, 421-8H II	425-8H II
Size	12" (30.5 cm)	15" (38.1 cm)	15" (38.1 cm)	10" (25.9 cm)
Power Rating*	100 watts	150 watts	150 watts	75 watts
Pressure Sensitivity 1 watt at 1 meter	100 dB SPL	102 dB SPL	103 dB SPL	98 dB SPL
Frequency Response	60-8000 Hz	45-8000 Hz	35-3500 Hz	60-10,000 Hz
Free-Air Resonance	55 Hz (8H) 45 Hz (16 LF)	47 Hz	35 Hz	60 Hz
Application	Full range	Full range	Bass	Full range
Impedance	8 ohms (8H II) 16 ohms (16 LF)	8 ohms	8 ohms (8 LF, 8H II) 16 ohms (16 LF)	8 ohms
Magnet Structure Weight	11½ lbs (5.2 kg)	11½ lbs (5.2 kg)	17½ lbs (7.9 kg)	11½ lbs (5.2 kg)
Weight	17 lbs (7.7 kg)	20 lbs (9 kg)	22 lbs (10 kg)	16 lbs (7.3 kg)
Typical Applications	Lead guitar, synthesizer, organ, amplified reeds, electric piano, amplified brass, acoustic guitar	Lead guitar, synthesizer, organ, steel guitar, amplified brass, electric piano, acoustic lead guitar	Bass, electric bass, amplified string bass, organ, synthesizer, steel guitar, sound reinforcement woofer	Sound columns, lead guitar, amplified reeds, amplified brass, voice, amplified acoustic guitar, electric piano

*Power band lower frequency limit is 80 Hz for rated power



ELECTRONICS AND ACCESSORIES

Altec Lansing mixing boards and power amplifiers provide the dynamic range and low noise levels missing from lesser quality systems. Extremely versatile and rugged, these units travel dependably through all the frenzy encountered on the road. And when you're on the road a while, reliability is possibly the most important feature of your electronic gear. We build our consoles based on modular design. If a problem should develop, a technician can quickly and easily drop in a new board—and you're on again in minutes.

9440A Power Amplifiers

The stereophonic 9440A, high in power and low in distortion, is ideal for high-power, wide-response, high-accuracy music reproduction and reinforcement. Features include: Illuminated VU meters, brushed metal finish, and rack-mounting chassis with provision for mounting two accessory fans. An important feature of this unit is the special patented protection circuit that steps down power to 40% output in case of trouble. This means you stay operating in the event of all but the most catastrophic interruption.

1224A Electronic Crossover/Biampifier

The 1224A electronic crossover/biampifier is designed to be installed in several Altec Lansing speaker systems for use in high-accuracy sound reinforcement systems. The electronic crossover circuit divides the input signal into separate bass and treble channels before amplification. Electrically separate amplifiers power the low-frequency speaker and high-frequency driver. A crossover frequency of 500 Hz, 800 Hz, or 1500 Hz, each with 12 dB/octave rolloff, may be selected by means of a slide switch on the back of the unit. Input connections are made via Cannon-type connectors for conveniently connecting two or more biampifiers to a single driving source. Output connections are push-on lugs. Two gain controls are provided: A full-range control and a high-frequency control for spectral balance.

9477B Power Amplifier

The 9477B is a single-channel transformer-coupled amplifier. This design assures constant output power regardless of load impedance. This extremely durable unit exhibits low

distortion and solid performance in applications requiring moderate power. Altec Lansing's Active Dissipation Sensing Circuit provides fail-safe protection for the output transistors. The 9477B includes a peak-detecting VU meter with illuminated scale, and may be mounted in any standard 19-inch equipment rack or the 1177A travel case.

1214A Powered Control Console

For the performer who demands ease of operation and flexibility in performance, the 1214A is ideal. There are six low-impedance transformer-balanced inputs with Cannon-type connectors mounted to the rear panel. Six more parallel mic inputs are available via 1/4" phone jacks on the front panel, so that a total of 12 mics may be used. A manual reverb lock and locking top cover provides protection during travel. Each of the six mic channels is equipped with separate volume, bass, treble and reverb controls. And the 1214A has built-in feedback suppression switches.

This portable unit, perfect for all of the needs of a small group, packs a full 100-watt power amp. It has pre-amp level outputs for driving powered speakers, biamps, or other power amps.

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1220A/C

1177A

9477B

1177A Travel Case

The 1177A travel case provides portability and protection for the 9477B amplifier and most rack-mount type amplifiers. The sturdy case includes metal corner protectors and expansion-type carrying handle.

1220AC Mixing Console

The 1220AC (which includes black vinyl-covered travel case with detachable legs) is an ideal portable

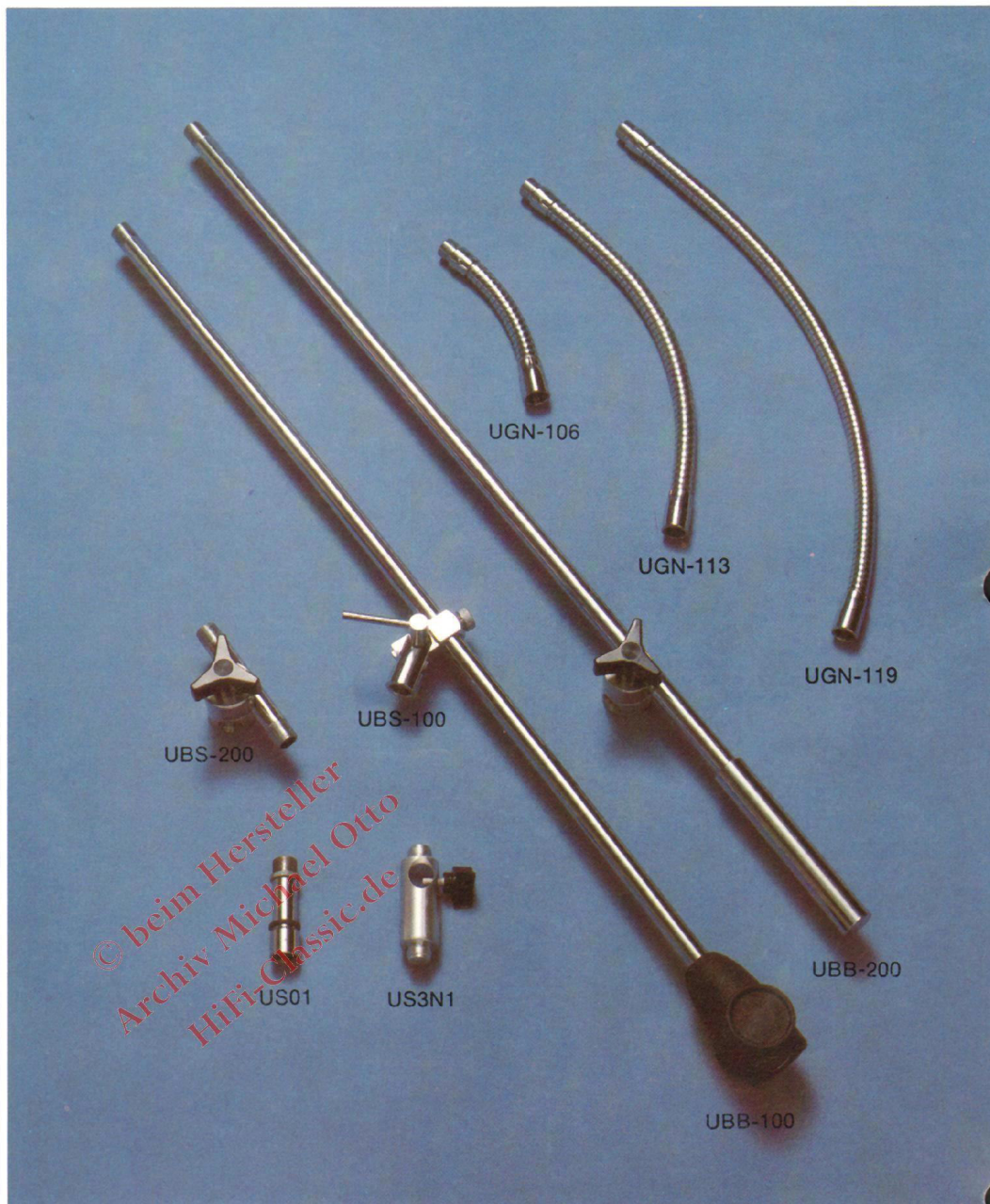
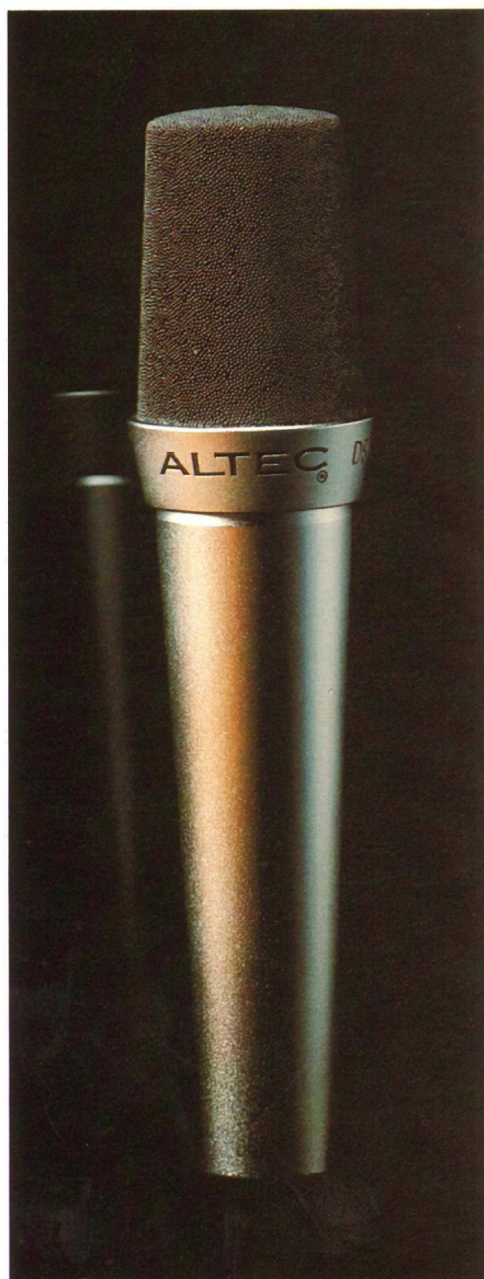
console for the professional performer's sound reinforcement system. With its unusually large dynamic range, the 1220AC handles large signals without clipping.

Modular PC boards are used for input transformers, dual preamps, master amp channel, as well as the output stages and transformers. Other features include: Self-contained reverb unit, 10 low-impedance, transformer-isolated input

channels and one auxiliary input channel for line-level devices. Each channel has controls for volume, bass, treble, and reverb levels. The output of each channel may be monitored on either of two selectable channels. Each input is independently monitored by a VU meter. Other special circuits include a line and polarity indicator and switch to prevent shock hazards, an electronic crossover output circuit for bi-amplification, and a compressor/limiter.

Model	Power Output (watts)	THD (Total Harmonic Distortion)	Input Sensitivity	Frequency Response	Crossover Frequencies	Input Impedance (nominal)	Load Impedance (minimum)	Power Requirements	Signal-to-Noise Ratio	Dimensions	Weight
9440A	200/channel (8 ohms) 400/channel (4 ohms) 800 (mono 8 ohms)	<0.1% <0.25%	0.6V rms	20 Hz-20kHz ±0.25 dB	—	15,000 ohms, all inputs	4 ohms/channel; 8 ohms in bridge	120/240V ac, 50/60 Hz 1500 watts max	>100 dB	7" (17.8 cm) H 19" (48.3 cm) W 11" (27.9 cm) D	56.5 lb (25.6 kg)
1224A	60 (LF) 30 (HF) (8 ohms)	<0.5%	0.5V rms	20Hz-20 kHz ±1 dB	500, 800 or 1500 Hz, 12 dB/octave slope	15,000 ohms, unbalanced	2 ohms	120V ac, 50/60 Hz 250 watts max	80 dB	6½" (16.5 cm) H 9¾" (25.1 cm) W 9" (22.9 cm) D	16 lb (7.3 kg)
1214A	100 (8 ohms)	<2%	18 mV (high Z) 1.5 mV rms (low Z)	20 Hz-20 kHz ±2 dB	—	20,000 ohms (high Z) 150 ohms (low Z)	4 ohms	120 volts, 50/60 Hz 200 watts max	80 dB	9¼" (23.5 cm) H 24¼" (61.6 cm) W 15" (38.1 cm) D	42.5 lb (19.3 kg)
9477B	100 (4, 8, or 16 ohms)	<0.5%	0.8V rms	20 Hz-20 kHz ±0.5 dB	—	15,000 ohms, unbalanced	4 ohms	120/240V ac, 50/60 Hz 250 watts max	95 dB	7" (17.8 cm) H 19" (48.3 cm) W 8½" (21.6 cm) D	34 lb (15.5 kg)
1220A	—	<1% W/10dB Compression, +8 dB output	0.45 mV rms	30-20 kHz ±1 dB	500 or 800 Hz, 12 dB/octave slope	150 ohms	—	120/240V ac, 50/60 Hz 50 watts	80 dB	11" (27.9 cm) H 36" (91.4 cm) W 24" (61 cm) D	120 lb (50.4 kg)

MICROPHONES AND ACCESSORIES



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D80C AND D81 MICROPHONES

Altec Lansing microphones are reliable, professional quality units ideally suited to the rigors of the professional entertainer. The D80C and D81 are identical in appearance and construction. Both are dynamic microphones with durable, sintered bronze wind screens. The D80C has a cardioid pickup pattern, while the D81 is omnidirectional. They are well balanced for a comfortable feel, and each comes complete with a 25 foot cable with XL-type connectors. A mic stand swivel adaptor is also included.

ACCESSORIES

A complete line of microphone accessories and stands is available for most professional applications. Sturdily constructed for long wear and attractive looks, Altec Lansing accessories provide maximum stability and tarnish-free surfaces.

Model UGN

Flexible "goose-necks" may be used with any microphone stand or accessory fixture. Connecting ends have $\frac{5}{8}$ "-27 male and female threads. Finished in bright chrome.

Model UGN106 6 inches
 Model UGN113 13 inches
 Model UGN119 19 inches

Model UBB100

31" Boom attachment, features a solid machined brass swivel mount. This boom fits securely on any standard $\frac{5}{8}$ "-27 floor stand. Bright chrome finish. Shipping weight: 3½ lbs.

Model	Type	Pickup Pattern	Frequency Response	Output* Level	Finish	Dimensions	Weight
D80C	Dynamic	Cardioid	50 Hz-15 kHz	-59 dBm	Non-reflective satin-chrome	1.5" (4 cm) dia. x 6.5" (17 cm) long	9.2 oz.-260 gm
D81	Dynamic	Omni	50 Hz-15 kHz	-54 dBm	Non-reflective satin-chrome	1.5" (4 cm) dia. x 6.5" (17 cm) long	9 oz.-255.2 gm

*Referenced 10 dynes/cm²



Model UBS100

Boom swivel mount used on Model UBB100. Available as a replacement, or can be used with various adaptors to fabricate special needs. Provides for cables to run thru threaded end.

Model UBB200

Baby boom attachment featuring all chrome steel counterweight and unique ratchet type lock. This attractive boom fits securely on any stand and 5/8"-27 thread floor stand.

Model UBS200

Guitar microphone holder. Holds two microphones and is completely adjustable to any level includes 6-inch long tube, 5/8"-27 male each end.

Model US01

Two-piece, snap-on microphone accessory unit. The male section attaches to standard microphone stands and boom attachments. Standard microphone holders attach to the female section for easy transfer of microphone stand position.

Model	Height	Base	Stem Assembly
UMS100	36 to 63"	10" Diam. black wrinkle	Bright Chrome
UMS101	34 to 62"	10" Diam. bright chrome	Bright Chrome
UMS102	34 to 62"	10" Diam. bright chrome	Bright Chrome
UMS103	36 to 63"	12" Diam. black wrinkle	Bright Chrome
UMS110	34 1/4 to 64"	10 1/4" Diam. black wrinkle	Bright Chrome
UMS111	34 1/4 to 64"	10 1/4" Diam. chrome	Bright Chrome
UMSTP1	32 to 60"	Tripod folding	Bright Chrome
UDS100	4" only	6" Diam. black wrinkle	Bright Chrome
UDS101	8 to 13"	6" Diam. black wrinkle	Bright Chrome

Model US3N1

Multiple microphone adapter permits minimum of three microphones per stand. When used with goose-necks or other extensions, several microphones can be placed in any position.

ADAPTORS

- Model UAD100.** 5/8"-27 to 1/2" pipe thread male (RCA Adaptor
- Model UAD101.** 3/4" long, 5/8"-27 male running thread
- Model UAD102.** 5/8"-27 female to 5/8"-27 female, coupling
- Model UAD103.** 3" long tube 5/8"-27 male each end
- Model UAD104.** 6" long tube 5/8"-27 male each end
- Model UAD105.** Flange, 5/8"-27 female. Base Diameter 2".
- Model UAD106.** Flange, 5/8"-27 male. Base Diameter 2".
- Model UAD107.** 12" long tube 5/8"-27. Male each end.
- Model UAD108.** 24" long tube 5/8"-27. Male each end.

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