# ALTEC LANSING

# COMMERCIAL SOUND PRODUCTS SALES GUIDE

Dealer Version

## INSIDE THIS ISSUE

**Paging Horns & Drivers**

**Quick Install Speakers**

**Electronics**

**Specialty Speakers**

## And much more!

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# Altec Commercial

Rarely does a totally new product line carry a long-standing success story as legendary as Altec Lansing does. Continuing in the tradition of Altec Lansing, Altec commercial is the newest addition into the commercial sound marketplace. Every generation of Altec Lansing products are the most finely-tuned and highest quality equipment available to the audio professional concerned with optimum sound quality. We at Starin Marketing hope this guide leads to a better understanding of the Altec commercial product line.

# Why Buy Altec Commercial?

Altec Lansing has been the worldwide leader in designing and manufacturing acoustical and electrical products for years. The Altec name is a strength in the audio marketplace and recent changes in company ownership have given Altec incredible focus and direction. With hundreds of success stories illustrating a worldwide reputation for excellence, Altec Lansing truly is the Sound Of Experience.

# What Advantage Does Altec Offer?

Altec invented many of the technologies that are prevalent in audio today. For example, Constant Directivity, Line Radiators, and Duplex technology.

- Instant Credibility. Altec has been an established name in the sound reinforcement industry for over 30 years.

- Technical Advances. Altec has invented the technologies that are the main stay in the audio industry.

- Dealer Support. Employing some of the best audio people in our industry, Altec along with Starin Marketing wants to assist you in any way possible to help your business flourish.

# (219) 929-4127

# Altec Commercial At-A-Glance

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### Commercial Microphones
Altec has everything you need from handheld to desktop paging and performance microphones. Check out these possible applications:
- Performance Vocals
- General Paging
- In-Wall Paging Stations
- Boundary & Surface Mount
- Ceiling & Suspended
- Podium
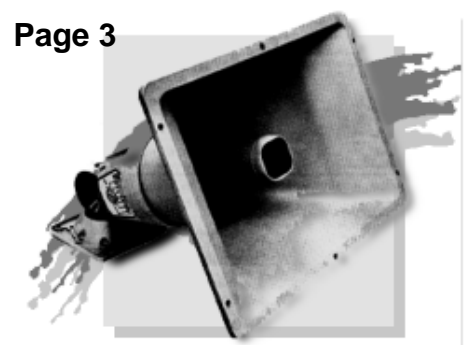- Wireless
- Conferencing

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### Electronic Components
Reliable mixer amplifiers and 70 power amplifiers round out this category. Check out these possible applications:
- All Purpose Venue Paging
- Telephone Interconnect

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### Paging Projectors
Complex or simple, Altec can handle your paging needs. Check out these possible applications:
- Indoor/Outdoor
- Warehouses
- Emergency Evac.
- Parking Lots

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### Horns & Drivers
Mix and match horns and drivers to create high performance paging and audio systems. Check out these possible applications:
- H.S. Athletic Fields
- Small Stadiums

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### Speakers
From economy to high-performance, Altec has the ceiling speaker for your application!
- Board Rooms
- Waiting Areas
- Background Music
- Residential

**Page 14**

### Audio Transformers
Don't degrade your sound. Altec transformers are the best in the business for audio.
All transformers designed for 70-volt applications.

# FOR MORE DETAILS ON THESE PRODUCTS SEE THE FOLLOWING PAGES OR CALL STARIN MARKETING
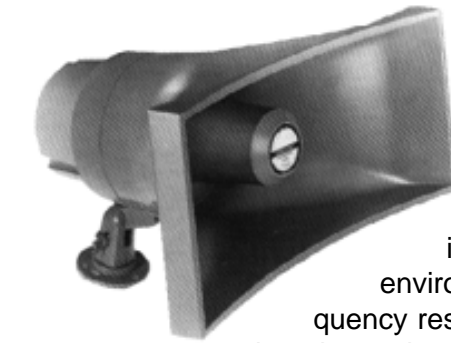
# Altec Commercial Paging Projectors

**PA430T/PA430: Constant Directivity paging projector 8 ohms, 30 watts, 60°x40°, 70.7V,25V,100V (PA430T).**

- The world's only Constant Directivity paging horn, the PA430-series gives you even frequency response  from 2kHz to 10kHz across the entire beam width of the horn, thereby eliminating 'hotspots' and the need to add additional horns for even coverage.

- Unique mounting apparatus included on the horn gives you unlimited flexibility  in aiming the PA430.   Just mount the horn and point.

- T-Version has multiple wattage taps that are screwdriver adjustable. This flexible horn can be flush mounted in a wall, attached to a 4 gang electrical box, strapped to an I-Beam, or mounted directly on a wall.

**CDP-848AT/CDP-850T: Compound Diffraction Projector 150°x110° with 25V/70.7V transformer**

- The folded construction of the rear horn, coupled with the smaller dimensions of the front horn, presents a 1000Hz acoustic crossover.

- This separation of frequencies provides a more extended high frequency response, resulting in improved intelligibility.

- Wide coverage pattern eliminates the need for multiple horns for coverage

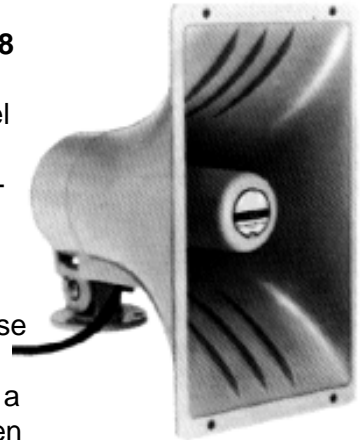- CDP-848AT-30 watts, CDP-850AT-60 watts

**CFID32-8/CFID32T: Reentrant paging projector 85°x85°, 8 ohms, 32 watts.** Reentrant design provides great speech intelligibility in a high ambient noise environment. Smooth frequency response and low distortion also make the CFID ideal for background music indoors or out. Uni-Lock swivel base makes mounting the CFID a snap.

**PA60M: Marine Version reentrant paging projector 8 ohms, 60 watts**

- White with all stainless steel hardware, the  PA60M is perfect for voice reinforcement in a marine environment.

- Reentrant design offers smooth frequency response in the vocal range.

- 80°x50° horn pattern offers a predictable pattern for even coverage.
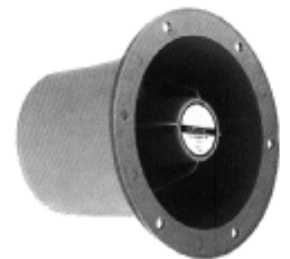
**IBC8: Talkback reentrant paging projector, 8 ohms, 30 watts.**

- Loudspeaker and microphone in one.

- Designed for use in a high ambient noise environment.

- Uni-Lock swivel mounting bracket for easy installation.

- 30 watt low distortion driver included.

**MIS8C: Flange-mount Paging Horn, 8 ohms, 10 watts.**

- Suitable for talk-back
- 100°x100°
- Indoor/outdoor use

# Altec Commercial Horns & Drivers

**Cobreflex IIB: Folded Sectorial Horn 80°x60°**
**Cobreflex III:  Folded  Sectorial Horn 100°x60°**
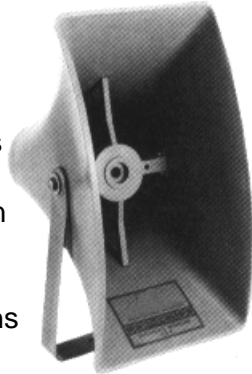
**Cobreflex III**

- Our patented folded design features two separate air columns in a single assembly virtually eliminating high-frequency phase cancellation problems found in reentrant type horns.
- Extremely wide coverage pattern (Cobre IIB 80°x60°, Cobre III 100°x60°) is underlined perfect for speedways, athletic fields, or any large area where public address, paging, and voice warning is a must.
- Lightweight non-resonant glass fiber design stands up to years of harsh weather.
- U-Shaped  mounting bracket included for ease of  installation on almost any surface.
- Uses ID30, ID60, or 7110XC drivers

**Cobreflex IIB**

**FC100: Compound Diffraction Projector 150⁰x100⁰**

- Driver mounts in center of the horn for compound diffraction operation.
- This separation of frequencies provides a more extended high frequency response, resulting in improved intelligibility.
- Wide coverage pattern eliminates the need for multiple horns for coverage
- Uses 1828 or 1829 drivers

**SH: Reentrant paging horn 100°x100°**

The exponentially flared horn, super high efficiency (as much as 40%) and resulting low distortion make the SH the horn of choice for  wide angle, long throw applications.

- Special mounting bracket included.
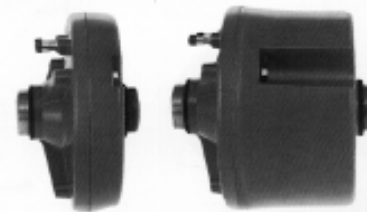- Uses ID30, ID60, 1824S, or 7110XC drivers

**ID Series Drivers**
- High sensitivity.
- 500-4kHz response
- 30 Watt (ID30C-8) or 60 Watt (ID60C-8)
- Transformer version available (ID30CT and ID60CT)

**1800 Series Drivers**
- Convertible design for use with compound horns (FC100)
- 260-8kHz response
- 30 Watt (1828C) or 60 Watt (1829)
- Transformer version available (1828T and 1829T)

**1824S Siren Driver**
- High sensitivity.
- 300-3kHz response
- 75 Watt

**7110XC:  Explosion Proof Driver**
- 8 ohms, 30 Watts
- Driver will not cause an explosion when used in a potentially hazardous environment such as gasoline storage and loading, coal pulverization, grain mills, paint shops, or other areas  with an atmosphere that contains explosive gasses.
- Meets and surpasses all UL standards for use in hazardous environments.

See PS-1 Pressure Seal Connector for use  with the 7110XC.

# Altec Commercial Ceiling Speakers

## 8 - INCH SPEAKERS

### 509 FAMILY
**Extended LF Ceiling Speakers**

The 509's are 30 watt, full-range 2-way loudspeakers. The "T" versions are available in either 5 or 30 watt. They can also be purchased with a grill. Freq. Resp. = 80-16,000 Hz; Max SPL = 110dB.

### 409 FAMILY
**Premium Duplex® Speakers**

The 409's are 32 watt, full-range coaxial loudspeakers. The "T" versions are available from 4 to 32 watts. They can also be purchased with a grill. Freq. Resp. = 85-18,000 Hz; Max SPL = 112dB.

### 309 FAMILY
**Standard Duplex® Speakers**

The 309's are 15 watt, full-range coaxial loudspeakers. The "T" versions are available in either 4 or 8 watt. They can also be purchased with a grill. Freq. Resp. = 85-18,000 Hz; Max SPL = 108dB.

### 209 FAMILY
**Utility Ceiling Speakers**

The 209's provide 10 watts of power and are available in 8 ohms or with a transformer and grill. Freq. Resp. = 80-15,000Hz; Max SPL 104dB @ 8 ohms / 101dB w/ transformer.

### 109 FAMILY
**Economy Ceiling Speakers**

When budget is the main concern, these speakers are perfect. The 109's provide 5 watts and are rated at 8 ohms. Also available with a transformer and grill. Freq. Resp. = 80-15,000Hz; Max SPL = 101dB.

## 6.5 - INCH SPEAKERS

### 407 FAMILY
**Premium Ceiling Speakers**

These high performance full range speakers are the speakers true professionals choose. Available in an 8 ohm or transformer configuration. Choose between two different transformers - 8 or 16 watts. Freq. Resp = 65 - 15,000 Hz; Max SPL = 105 dB.

### 307 FAMILY
**Utility Ceiling Speakers**

Available in two versions, these speakers provide full range response: 10 watts /8 ohms or 10 watts / 4 watt transformer. Freq. Resp. = 95-12,000 Hz; Max SPL = 103dB.

## 4 - INCH SPEAKERS

### 405 FAMILY
**Premium Ceiling Speakers**

Because quality is always a concern, these speakers are not a compromise. Full Range / High Performance in both 8 ohm and 70/100 volt applications. Freq. Resp. = 60 - 15,000 Hz; Max SPL = 102 dB

### 205 FAMILY
**Utility Ceiling Speakers**

A great all purpose 4" - available with or without transformer. Freq. Resp. = 90-18,000Hz; Max SPL = 101dB

## Enclosures and Grilles for 8-inch Ceiling Speakers

**5184-E** Back enclosure, 0.6 cu.ft round (for existing construction)

**5184-N** Back enclosure, 1.5 cu.ft. round (for new construction)

**5189-X** Back enclosure, 1.0 cu.ft.

**5282-W** Grille assembly, square, white, with 90° edges

**5284-WM** Grille assembly, square, white, with beveled edges

**5281-W** Ceiling grille, round, white

**5295-W** Grille, round, white, screw mounting

**5181-XM** Back enclosure, 1.0 cu.ft. square

**5182-XM** Back enclosure, 2.0 cu.ft. rectangular

**5487-X** T-Bar support

## Accessories for 4-inch Ceiling Speakers

**5195-X** Back enclosure, 1/4 cu.ft. for 5295-W grille

**5294-WM** Grille, round, white, torsion spring mounted

**5295-W** Grille, round, white, screw mounting

**5194-XM** Back enclosure, 1/4 cu.ft for 5294-WM grille

# Altec Commercial Cross Reference

This chart was designed to help you quickly make substitutions and recommendations for old Altec, Atlas, EV, and University ceiling speakers which will probably be called out for years to come.  Every attempt was made to obtain accurate product specifications but there may be sight performance differences between the recommended Altec Commercial number and the other brands. Please call us if your have any doubts in the recommended substitute.

| Altec Model | Description | EV Model | University Model | Atlas Model | Old Altec Model |
|---|---|---|---|---|---|
| 8 Inch Model | | | | | |
| 509-8A | Wide-range, extended LF | PRO-8A | | EQ818 | |
| 509-5T | Wide-range, extended LF, 5W | PRO-8AT5 | | | |
| 509-30T | Wide-range, extended LF, 30W | PRO-8AT30 | | EQ818-T167 | |
| 409-4T | Premium Duplex® speaker | | | | |
| 409-8E | Premium Duplex® speaker | | | | |
| 409-8T | Premium Duplex® speaker | | | CF-883-T87 | |
| 409-16T | Premium Duplex® speaker | | | | |
| 409-32T | Premium Duplex® speaker | | | | |
| 409-ST | Premium Duplex® speaker | | | | |
| 309-4T | Standard Duplex® speaker | INC-8AT4 | CS815T | | |
| 309-8A | Standard Duplex® speaker | INC-8A | CS815 | CP802-T87 | |
| 309-8T | Standard Duplex® speaker | INC-8AT8 | CS815T8 | | |
| 209-8A | Standard Ceiling speaker | | CS810 | C10A-T87 | 5384A |
| 209-4T | Standard Ceiling speaker | | CS810T,CS810T-25/70 | | 5382B |
| 109-8A | Economy Ceiling Speaker | | CS805 | C5A-T87 | |
| 109-4T70 | Economy Ceiling Speaker | | CS805T | | |
| 8 Inch w/Baffle | | | | | |
| 309-8TWB | Versions with white baffel grill | | CS815T8WB | | |
| 309-4TWB | Versions with white baffel grill | | CS815TWB | | |
| 209-4TWB | Versions with white baffel grill | | CS810TWB | D161-8 | |
| 109-4T70WB | Versions with white baffel grill | | CS805TWB | G62-8 | |
| 6.5 Inch | | | | | |
| 407-8A | Premium Ceiling Speakers | | | FA136 | |
| 407-8T | Premium Ceiling Speakers | | | FA136-T87 | |
| 407-16T | Premium Ceiling Speakers | | | | |
| 307-8A | Utility Ceiling Speakers | | CS610 | FA116 | |
| 307-4T | Utility Ceiling Speakers | | CS610T, CS610T-25/70 | FA116-T72 | |
| 4-Inch | | | | | |
| 405-8H | Premium Ceiling Speakers | | | FA134 | |
| 405-4T | Premium Ceiling Speakers | 4058HT | | FA134-T47 | |
| 205-8T | Utility Ceiling Speakers | | CS410TB | FA114-T87 | |
| 205-8A | Utility Ceiling Speakers | | CS410 | FA114 | 5385A |
| 205-4T | Utility Ceiling Speakers | | CS410T, CS410T-25/70 | | 5383B |
| 8-Inch Package | | | | | |
| EP309-8T | Quick-Mount package | | CSP815-8T | 8" Strategy | EP309-8T & CBA-8 |
| EP309-16T | Quick-Mount package | | | | EP309-16T & CBA-8 |
| 6.5-Inch Package | | | | | |
| EP407-8T | Quick-Mount package | | CSP610-4T | 6" Strategy | EP407-8T & CBA-6 |
| EP407-16T | Quick-Mount package | | | | EP407-16T & CBA-6 |
| 4-Inch Package | | | | | |
| EP405-8T | Quick-Mount package | EP407-8T | CSP410-4T | 4" Strategy | EP405-8T & CBA-4 |
| EP405-16T | Quick-Mount package | | | | EP405-16T & CBA-4 |
| Enclosures and Grills for 8" | | | | | |
| 5184-E | Steel backbox | | CB8-1 | T95-8 | |
| 5281-W | 8" White baffel grill | | GB8R | 51-8 | |
| 5487-X | Tile bridge | | TB-1 | 81-8S | |

# Altec EP-Series Quick Mount Ceiling Speakers

**EP309**
**8" Duplex**

**EP405**
**4" High SPL**

**EP407**
**6.5" Duplex**

Each Quick-Mount package is a complete full-range ceiling speaker system consisting of a mounting-ring assembly and a speaker-component assembly which includes speaker, transformer, and housing. Each model complies with UL listing 1480 for general fire signaling and UL listing 2043 for use in air-handling spaces (plenum rating). SAVE VALUABLE INSTALL TIME WITH THESE QUICK INSTALL SPEAKERS!!

## Each model includes:
- Speaker driver
- Transformer (with 4 wattage taps)*
- Terminal block
- Enclosure (back box)
- Grill
- UL conduit plate
- Mounting bezel

**8" Models:**
EP309-8T (8W transformer)
EP309-16T (16W transformer)

**6.5" Models:**
EP407-8T (8W transformer)
EP407-16T (16W transformer)

**4" Models:**
EP405-8T (8W transformer)
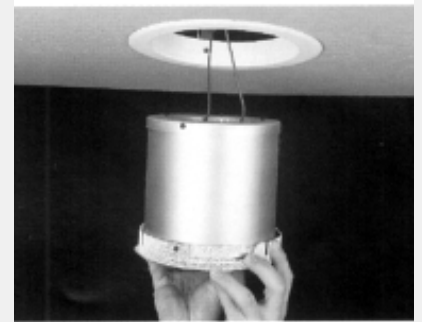EP405-16T (16W transformer)

* 8W transformer taps at 1,2,4, and 8 watts, 16W transformer taps at 2, 4, 8, and 16 watts.

### Installation Demo

1. Cut hole and insert bezel.

2. Run and attach speaker wire (use conduit knock-out back plate for UL)

3. Slide into bezel, turn and lock into place.

# Altec Commercial Full Range Speakers

### DTS-200 Duplex® Full-Range Speaker

Altec Lansing pioneered the use of point source alignment in their large venue speaker systems, and now that technology is available in a more affordable package. Point source alignment physically aligns the two drivers in a coax configuration resulting in a very uniform coverage pattern, with *increased intelligibility*. All of this in a vented bass enclosure gives you a frequency response down to 80 Hz. Weighing in at only 38 pounds, that's a lot of sound in a small package. Combine the great sound with the ability to safely hang the speaker with optional mounting hardware, and you've got a speaker that will fit into any application. Available in black or white. Optional mounting hardware (Mb100, Mb200, Mb300)

## Full Range Compact Permanent Install Speakers

The Altec Commercial "S-Series" is a perfect solution when you need sound reinforcement, but only a small package will do. Perfect for under balconies, cry rooms, choir monitors, etc.
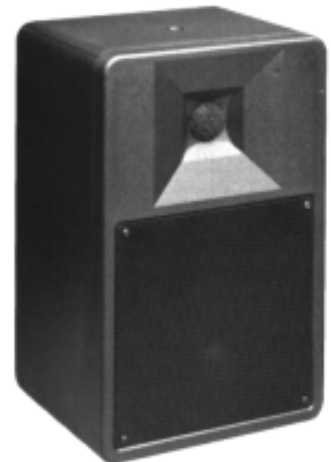
### S40B (or S40W - White)
- 160 Watts
- 5.25" woofer / 1" dome tweeter
- Weather-resistant package
- Optional mounting bracket S40MBB (or S40MBW - white)
- 30 W transformer versions (S40TB/S40TW)

### S60B (or S60W - White)
- 100 Watts
- 6.5" woofer / 1" dome tweeter
- Optional mounting bracket S60MBB (or S60MBW - white)
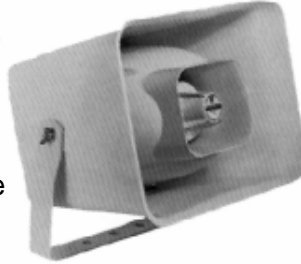- 60 W transformer versions (S60TB/S60TW)
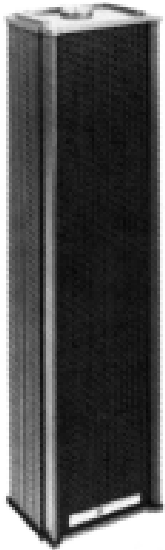
# Altec Commercial Special Application Speakers

### Musicaster 100: Weatherproof Full Range Speaker System
- 8 ohms, 60 watts
- 12 inch coaxial design provides a high fidelity speaker system ideal for voice and music reproduction.
- Completely Weatherproof, the Musicaster is ideal for outdoor cafés, theme parks, auditoriums, etc.
- Available in tan or hunter green. Mounting bracket included.
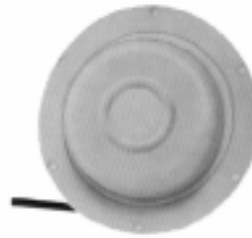
### LR Series, Weatherproof Line Radiator
- Good 'problem solver' for areas prone to feedback with existing horn and driver combinations
- 5x7 inch elliptical full range speakers in a weatherproof cabinet
- Great for under balcony reinforcement, or anywhere you need full range coverage when space is limited.

### LR2SAT: 25V/70.7V/100V
- 25 Watts
- 3 "electrically aligned" speakers

### LR4SAT: 25V/70.7V/100V
- 50 Watts
- 6 "electrically aligned" speakers

### MLC and MLCT: Weatherproof 2-Way Loudspeaker systems
- 15 Watts.
- Ideal for outdoor applications requiring greater fidelity than a conventional paging horn.
- MLCT version includes a 70.7V/25V transformer
- 2 way, folded horn design provides a frequency response of 175Hz-6K
- Perfect for marine use, golf courses, playgrounds, or picnic areas.

### UW30, UW30-100: Underwater speakers
- 8 ohms, 30 watts.
- The only choice for underwater speakers. Most schools now specify the UW30 for synchronized swimming.
- Patented design uses absolutely no metal parts that can corrode, making the UW30 the choice for aquariums or saltwater pools as well as swimming pools.
- One UW30 will cover a pool 30'x30'. Anything larger, or in a more turbulent environment, use 2 or more UW30's.
- UW30 includes 50 foot cable, UW30-100 includes 100 foot cable.

**MM2F is a flush mount design**

**MM2 is equipped with a swivel mount**

**MM2TC is for ceiling, wall, or bulkhead mounting**

### MM2, MM2F, and MM2TC: Submergence-proof Speakers
- 16 ohms
- 25 watts
- Self-Draining design is built to withstand fungus, dust, salt spray, live steam, and gasses.
- Designed to penetrate high ambient noise levels in boiler rooms, mines, railroads, etc.

# Large EP-Series Ceiling Speakers

The EP925 and EP950 large-format ceiling loudspeakers are a radical new design that provides unbeatable performance in high-ceiling applications (higher than 15'). These speakers feature Altec's Duplex technology and a unique horn geometry that creates a square (90 degrees x 90 degrees) coverage pattern. The included enclosure features 3 hang points (choose EBK-2 option which provides eyebolts) and a cosmetically pleasing design. Further more, and option 2'x2' grill (CG-1) can be purchased for using in drop-in ceiling applications. It is ideal for use in hotels, ballrooms, auditoriums, convention centers and meeting rooms where superb performance is required.

EP925
• 60 Hz - 20 Hz frequency response
• 97.0 dB sensitivity (1W/1m)
• 400 watts continuous program
• Available in 8-ohm or transformer versions from 30W to 100W

EP950
• 50 Hz - 15k Hz frequency response
• 99.0 dB sensitivity (1W/1m)
• 400 watts continuous program
• Available in 8-ohm or transformer versions from 30W to 100W

# Altec Commercial Mixer-Amplifiers

The **MA/MR** Series provides the installer with a complete line of versatile mixer/power amplifier products with select features for paging and commercial sound applications. The series includes 4 models with 3 power output configurations from 35 to 100 watts. All models offer identical features with the exception of power output. The MR-355C also includes a digital tuner featuring 24 station presets that may be programmed by the user.

Each of the models has 5 separate input controls which can be used to adjust the level from 6 input sources. Input channels 1-3 are Lo-Z microphone inputs; channel 4 is switch selectable to allow either a Lo-Z mic or auxiliary line level input; channel 5 is for auxiliary line level inputs. Channels 1 and 2 take priority over channels 3-5, while a transformer balanced telephone paging input takes priority over all inputs.

## MR-355C
• 5 inputs (3 mic, 1mic/line, 1 line)
• 35 Watts (4W, 8W, 16W, 25V or 70V)
• AM/FM tuner with 24 presets & MOH output
• Page input from telephone system
• Bass & treble EQ
• Optional rack kit (RM-3/10)

## MA-355B
• 5 inputs (3 mic, 1 mic/line, 1 line)
• 35 Watts (4W, 8W, 16W, 25V or 70V)
• Page input from telephone system
• Bass & treble EQ
• Optional rack kit (RM-3/10)

# Altec Commercial Mixer-Amplifiers
## (Continued)

### MA-605B
- 5 inputs (3 mic, 1mic/line, 1 line)
- 60 Watts (4W, 8W, 16W, 25V or 70V)
- Page input from telephone system
- Bass & treble EQ
- Optional rack kit (RM-3/10)

### MA-1005B
- 5 inputs (3 mic, 1mic/line, 1 line)
- 100 Watts (4W, 8W, 16W, 25V or 70V)
- Page input from telephone system
- Bass & treble EQ
- Optional rack kit (RM-3/10)

# Altec Modular Mixer/Amplifiers

The 1700 series gives the contractor/systems engineer the ability to custom configure the mixer for the job.

**1700C Mixer-Preamp**

The 1700C Mixer/Preamplifier is a six channel user-configurable mainframe preamplifier. By selecting from the large array of system component options, the 1700C can become anything from a six-in-one-out microphone mixer to a one-in-six-out distribution preamplifier. Multiple 1700C mainframes can be linked together for situations where more then six input/output ports are required. Built-in features include a top panel trap-door for easy access into the unit, compressor/limiter, low and high frequency shelving equalizers, muting, remote volume control capability, and a tone generator which produces four different sounds.

NOTE: The 1700 series comes without input modules, they must be ordered separately

**1707 and 1715 Mixer-Amplifier**

Like the 1700C, these models allow the input channels to be configured and include a 75W (1707) or 150W (1715) power amplifier in the mainframe.

## 1700 Series Accessories

**1781A Input Module**
Mic/Line input module with interchangeable input connectors (XLR, RCA, Screw Lug) and provisions for remote control and muting.

**1781AT Input Module**
Same as the 1781A but also features transformer isolation which provides effective electrical isolation.

**1783 Output Module**
This output module can be used to drive other audio devices or as a distribution amplifier.
Transformer option: 1786

**Connectors**
Use these connectors with any module
1791 - Female XLR
1792 - Male XLR
1793 - Dual RCA
1794 - 5 Lug Screw Term

# Multi-Zone Paging Mixer Amplifier



The EPS-205 is an all-in-one multi-zone paging solution. Features include 3 XLR mic/line inputs, 3 RCA line inputs, 200W/70V internal amplifier, 5 selectable output zones with level controls, 24VDC backup power connections, priority paging, digital message repeating option, and more!

## Optional Accessories:

EPS-205/PS - Complete paging surface with zone selections and message triggering
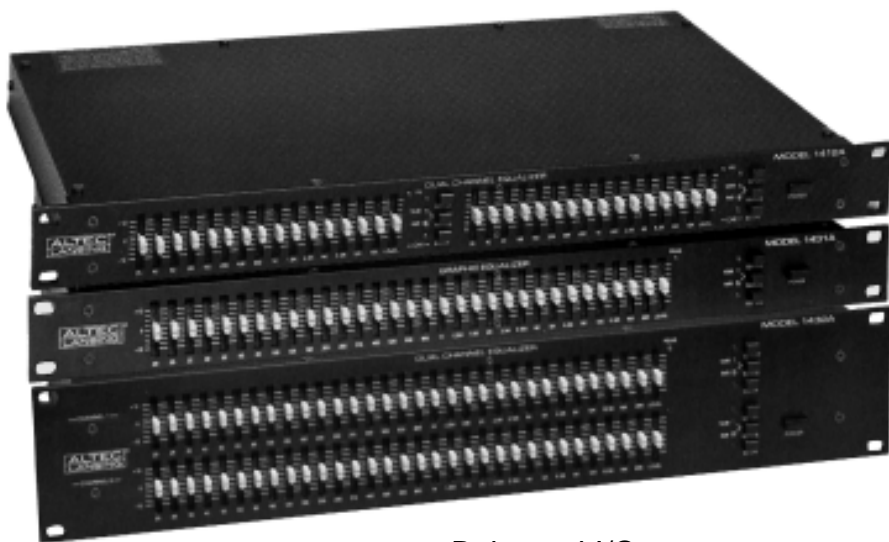ANRS-90178 - Remote master volume extension card allows for remote level control
ANRS-90212 - Alarm/chime extension card allows for audible tones and chimes.
ANRS-90213 - Voice-messaging extension card allows for 60-sec message to be saved and trigged at users request.
*Call your Altec rep for moreoptions*

# Altec Commercial Equalizers



Balanced I/O

## 1400 SERIES EQUALIZERS

**1412A Stereo 15 Band 2/3 Octave Equalizer**
• Variable Q
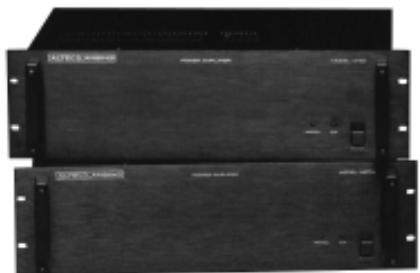• Selectable 6dB or l2dB Boost or Cut
• 43Hz High-Pass Filter

**1431A Mono 31 Band 1/3 Octave Equalizer**
• Variable Q
• Selectable 6 dB or 12dB Boost or Cut
• 43Hz High-Pass Filter

**1432A Stereo 31 Band 1/3 Octave Equalizer**
• Variable Q
• Selectable 6dB or l2dB Boost or Cut
• 43 Hz High-Pass Filter

# Altec 70V And 8-Ω Amplifiers

Flexibility, reliability, and value are terms that best describe Altec's 1400-series mono power amplifiers. Employing true complementary symmetry output circuitry for low noise and reduced RF susceptibility, these amplifiers are designed for a long life of operation.
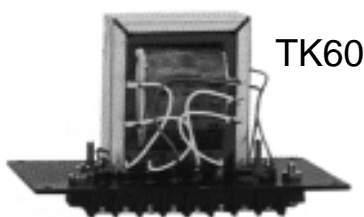
- 75W (1407A), 150W (1415A), or 300W (1430A)
- Balanced output transformer (screw terminal taps)
- 15k ohm bridging input transformer (A75/A150)
- Full amplifier protection
- 4Ω, 8Ω, 25 volt and 70.7 volt output
- 300 Hz high-pass filter (1407A/1415A)

EV amplifiers are known for reliability and supurb sound quality.

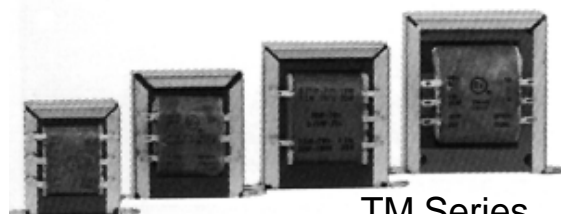| Specifications: | 9441A | 9444B |
|---|---|---|
| Power per channel (4 ohms) | 100W | 300W |
| Power per channel (8 ohms) | 75W | 200W |
| Power Bridged Mono | 200W | 600W |
| Cooling | Convection | Fan |
| Input Connector | XLR or 1/4" | XLR or Term |
| Output Connector | Binding post | Term |
| Rack Spaces | 1U | 3U |
| Depth | 12.8 in | 13.0 in |
| Weight | 18 lbs | 34 lbs |

# Altec Commercial Audio Transformers

TK60

AT100

TM Series

## Audio Transformers

Don't degrade your sound, Altec transformers are the best in the business for audio.

| Model | Taps | Power Handling | Insertion Loss | Freq. Response |
|---|---|---|---|---|
| TK60 | Transformer kit for Musicaster | 60 watts | 1.5dB | 60Hz-10kHz, ± 1dB |
| TM5 | 0.62,1.25,2.5, 5W - 25/70.7/100V | 5 watts | 1.5dB | 60Hz-10kHz, ± 1dB |
| TM15 | 1.87,3.75,7.5,15W - 25/70.7/100V | 15 watts | 1.5dB | 60Hz-10kHz, ± 1dB |
| TM30 | 3.75,7.5,15,30W - 25/70.7/100V | 30 watts | 1.5dB | 60Hz-10kHz, ± 1dB |
| TM60 | 7.5,15,30,60W - 25/70.7/100V | 60 watts | 1 dB | 60Hz-10kHz, ± 1dB |
| AT100 | 4,8,16,50,70.7,100W | 100 watts | < 1 dB | 35Hz-15kHz,± 1dB |

# Electro-Voice® Microphones

**US600EL**
This handheld microphone is designed for a rough environment where grip-to-talk is essential

**US602FL**
Cardioid version for off-axis noise rejection ...for high ambient noise environments.

**US621L**
Ideal for paging stations, this mic has a latching or non-latching push-to-talk switch on the base.

**US622L**
Cardioid version for off-axis noise rejection...for high ambient noise environments.

**US690**
Dynamic cardioids featuring N/DYM® magnet structures. Utilizes 12" goosenecks for flexible microphone placement. "F" version available with a threaded flange mount
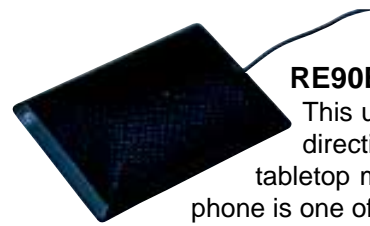
**US692**
Suitable for general public address applications, the US692 dynamic microphone features high output while providing smooth frequency response.

**EV N/DYM Series**
For live performance look no further than EV's popular N/DYM series.
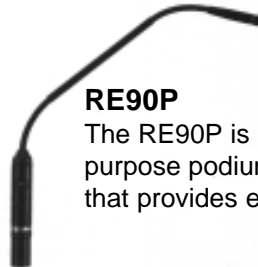
**RE90B**
This uni-direction tabletop microphone is one of the best in its class. Great for conference tables, courtrooms, and theatrical-type boundary applications.

**RE90H**
The RE90H is a high-grade hanging microphone suitable for choir and altar applications. Its very unique feature is a specially wound cord that prevents the microphone from shifting off its installed direction ...a real life saver!

**RE90P**
The RE90P is a great all-purpose podium microphone that provides even sound.

**RE90L**
The RE90L is the smallest lavalier microphone available. When you can't afford for the microphone to be seen, Altec has the best options available to you.

# As an Altec Commercial Dealer, you have access to Electro-Voice's entire array of microphones. Please consult your price sheets or call Starin Marketing for more information!