

Electro-Voice[®]

Commercial Sound

CATALOG NO. 132A



Microphones

sound spot • cardioid • nondirectional
special purpose • contact • differential
hand-held • handset • accessories

Public Address Speakers

complete projectors • compound and re-entrant horns • convertible drivers • paging and talk-back speakers • weatherproof full-range speakers • accessories



If You Didn't Get This From My Site,
Then It Was Stolen From...

www.SteamPoweredRadio.Com

HOW TO SELECT YOUR ELECTRO-VOICE MICROPHONE

No one microphone — not even an Electro-Voice microphone — does everything equally well. Although each E-V microphone is remarkably versatile, different applications require different types of microphones. Electro-Voice P.A. and General Purpose microphones are available in two basic types . . . Nondirectional and Unidirectional. Unidirectional patterns include cardioid and Sound

Spot types. Nondirectional microphones pick up sound equally well from all directions while Unidirectional microphones pick up sound principally from the front and cancel sounds originating from the rear. Your application will determine the type you should use as shown in Chart II.

DYNAMIC, CRYSTAL OR CERAMIC MICROPHONE

The rugged Electro-Voice Dynamic microphones are ideal for all types of P.A., dispatching/call, recording, amateur radio and general communication applications. Both voice and music are picked up with fine results. All E-V Dynamic microphones utilize the exclusive Electro-Voice Acoustalloy non-metallic diaphragm. No other material yet developed offers as smooth a response over as wide a frequency range as Acoustalloy. It is unique in its ability to withstand high humidity, temperature extremes, corrosive effects of salt air and severe mechanical shocks. Electro-Voice dynamic microphones are practically indestructible.

For applications where low initial cost is important and where high humidity, extreme temperature or severe mechanical shocks are not a factor, a crystal microphone is a highly satisfactory choice. Crystal microphones are widely used for amateur radio, home recording, dictating, P.A., call and paging systems.

IMPORTANT: Crystal microphones should not be exposed to temperatures higher than 112° F. Avoid exposure to direct sunlight; do not leave in closed automobiles or show windows for extended periods during hot weather.

Ceramic Microphones are unaffected by heat and humidity and are longer-lived than Crystal Microphones. Although their output level is slightly lower, they may be used in virtually all applications where Crystal Microphones are specified.

STEREO MATCHED ELECTRO-VOICE MICROPHONES

Electro-Voice microphones are manufactured to such close tolerances that a pair of any model may be used for well-balanced stereophonic recording. For more critical recording applications Electro-Voice offers the Models 664, 636, 630 and 623 in custom-matched pairs at no additional cost.

ELECTRO-VOICE MICROPHONE REFERENCE CHART

1 FIRST, CHOOSE THE TYPE OF ELEMENT BEST SUITED TO THE CONDITIONS OF USE OR DESIRED CHARACTERISTIC . . .

TYPES OF GENERATING ELEMENTS

Crystal Carbon
Ceramic Dynamic

Condition or Characteristic	Crystal	Ceramic	Carbon	Dynamic
High Temperature (112°+)		★	★	★
Low Temperature	★	★	★	★
High Humidity		★	★	★
Rough Handling			★	★
Very High Output			★	
High Output	★			
Wide Range				★
Low Cost	★	★		★
Long Mike Line*				★
Low Distortion	★	★		★

2 THEN, CHOOSE THE PICKUP PATTERN BEST SUITED TO THE ACOUSTIC CONDITIONS . . .

TYPE OF PICKUP PATTERN

Nondirectional (omnidirectional)
Unidirectional (Cardioid and Sound Spot)
Differential (close talking)

Acoustic Condition	Nondirectional (Omnidirectional)	Unidirectional (Cardioid and Sound Spot)	Differential (Close-Talking)
Low Reverberation	★	★	
High Reverberation		★	
Low Random Noise	★	★	
High Random Noise		★	
Very High Noise			★
Source Far From Microphone		★	
Source Close	★	★	★

*Choose low impedance models where hum or long lines (over 50 feet) may be encountered.

3 THE FINAL CHOICE WILL BE DETERMINED BY THE QUALITY DESIRED AND THE APPLICATION

Application	List Price Range	TYPICAL EXAMPLES					
		Nondirectional		Unidirectional		Differential	
		Dynamic	Ceramic/Crystal/Carbon	Dynamic	Ceramic/Crystal	Dynamic	Carbon
Low Cost Home Recording, P.A.	\$20 to \$50	611, 605, 624, 615	911, 926, 924, 727		951, 729		
High Quality Home Recording, P.A.	\$50 to \$110	623, 630, 636, 647, 648		644, 664			
High Noise Level and Mobile	\$35 to \$60	600D, 622 SKK	210KK			602, 606, 625 SKK	205KK

For Special Applications Refer to Pages 24 and 25.

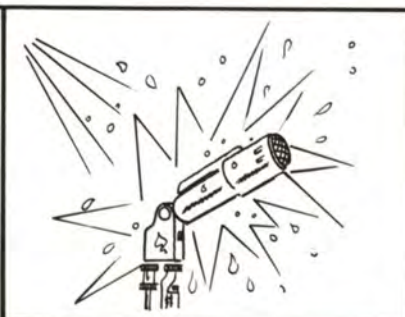
Professional Quality Microphones are Described in Electro-Voice Catalog No. 133

NO FINER CHOICE THAN ELECTRO-VOICE!

Only *Electro-Voice*[®] Dynamic Microphones have these important benefits.



WIDER RANGE



CORROSION-PROOF



DISTORTION FREE



BLAST-PROOF

One of the remarkable developments during World War II in the electro-acoustic field was the nonmetallic diaphragm used for military communications equipment. Today exclusive E-V nonmetallic Acoustalloy[®] remains unmatched by any other material for this purpose. This vital moving element in the microphone withstands exceptionally high humidity, rigorous temperature extremes, the corrosive effects of salt air and severe mechanical shocks without deteriorating or distorting the quality of sound picked up. In normal use it is virtually indestructible.

Greater Range and Sensitivity

The excellent sensitivity of E-V dynamic microphone results from the use of high-efficiency magnetic circuits; featuring Alnico V magnets and Armco magnetic iron.

Complete control of the diaphragm characteristics plus efficient magnetic circuits means the frequency response range can be tailored for finest pick-up of music and more natural voice reproduction. In addition the response can be made smoother to reduce peaks that cause feedback and poor reproduction.

Complete Quality Control

Electro-Voice's highly integrated production facilities permit close supervision of every step in the manufacture of microphones. In addition to statistical control by our Quality Control department *every* microphone is individually evaluated for exact frequency response, level, distortion and mechanical imperfections prior to shipment.



Unidirectional Microphones

Next to the carbon microphone, the development of high quality, unidirectional microphones is perhaps the most significant advancement in the history of sound pickup and reproduction. Used as a working tool, the characteristics of unidirectional microphones can be used for many purposes. Elimination of acoustical feedback, reduction of room reverberation, elimination of crowd noise and satisfactory

sound pick-up at greater working distances are perhaps the most useful characteristics of unidirectional microphones. Electro-Voice unidirectional microphones are available in two general types: the Variable-D Cardioid, used for general public address sound and recording applications, and the Sound Spot microphones for more specialized sound pickup applications.

Variable-D[®] and Unidirectional Microphones

The Electro-Voice Variable-D microphones provide a cardioid or heartshaped pattern of sound pickup. This characteristic provides high level pickup 45° each side of the front axis of the microphone, some attenuation of sound originating at the sides, and high attenuation or cancellation of sounds originating at the back of the microphone. The innovation of the cardioid microphone greatly improved overall Public Address system performance. Until recently, however, many cardioid Public Address microphones suffered from limited range response and lack of a uniform cardioid pickup pattern throughout the range of the microphone. The latter deficiency often reduced the effectiveness of this type of microphone.

The Variable-D method of obtaining cardioid directivity, an exclusive Electro-Voice development, very effectively eliminated these problems. This design utilizes a series of properly balanced phase-shifting tubes built into the microphone case itself to obtain proper cancellation of unwanted sound. This is accomplished without sacrifice of range response and the results are actually superior to many professional microphones. Electro-Voice Variable-D Unidirectional microphones are guaranteed superior in response and directivity to any others in their respective price ranges. Quite significant is the virtual elimination of "proximity effect" or change of bass response with distance. This means that E-V Variable-D microphones can be used at any reasonable distance without problems of over-bassed or thin response.

Sound Spot[®] Microphones

On many sound pickup applications, particularly in churches, auditoriums and amphitheatres, the two most serious difficulties are the presence of feedback-producing reflections of the projected sound and the short distance which has to be maintained between the microphone and the source of sound whether it be an actor, speaker or choir. In general, it is recommended that a microphone be placed 12" to 24" from the source of sound. On some applications, however, it is undesirable or impossible to locate the microphone this close. Past practice has been to set up the microphone as close as possible to the source of sound and then utilize acoustical treatment and speaker placement, when possible, to alleviate any problems. On most applications, however, the result was a compromise.

To help solve the problems of longer range pickup and feedback elimination, the Electro-Voice Sound Spot microphones were developed. These highly directional microphones allow working distances four or more times that of a cardioid microphone depending upon actual acoustical conditions. On most applications where it is physically or mechanically impossible to locate the microphone within conventional distances from the source of sound, Sound Spot microphones can be used with excellent resulting performance.

The Sound Spot microphones, also an exclusive Electro-Voice development, utilize controlled sound pressure phase relations developed within the slotted pickup tube at the front of the microphone to generate a pickup pattern that provides high-level reproduction of sounds entering the front of the microphone but cancels those arriving from either the sides or the back. This additional cancellation over the cardioid type is the factor which provides increased elimination of feed-back when used at conventional distances and allows greater working distances.

To preserve optimum directional characteristics at all frequencies, the Variable-D method is used below 700 cps. to reinforce the slotted pickup tube. This results in wide-range frequency response equal to the highest-quality Public Address dynamic microphones.

Electro-Voice research is devoted to solving problems. Creative engineering has made possible production of a wide variety of unidirectional microphones which have revolutionized the art of sound pickup and reproduction, resulting in fine performance under conditions considered "impossible" only a few years ago.



Electro-Voice®

Model 644 Sound Spot Dynamic Microphone

This highly directional dynamic microphone utilizes a combination of cardioid and distributed front opening designs which give greatly extended frontal pickup on the microphone axis, extending working distance four or more times compared to present unidirectional type microphones. The Model 644 allows much greater latitude in loudspeaker placement and solves many specialized problems where microphones cannot be placed at conventional distances from the source of sound.

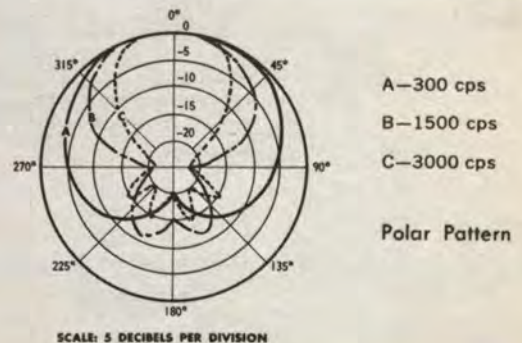
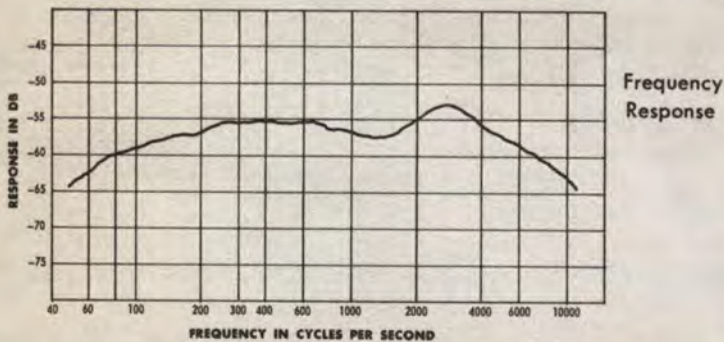
The Model 644 gives improved wind noise rejection compared with conventional microphones and is much less susceptible to generation of noise from mechanical shock.

Above 700 cps, cancellation of sound at the rear and sides exceeds 20 db, providing unequalled rejection of random noise, reverberation and feedback without frequency response loss.

The front acceptance angle at high frequencies of 45° each side of the microphone axis also allows best isolation of individual performers when desired.



Model 644
List \$110.00



Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 644 or equivalent. The microphone shall be a highly directional, dynamic type, with a combination of cardioid and distributed front opening with a frequency response of from 60 to 10,000 cps. From rear above 700 cps the microphone shall exceed cancellation of 20 db.

The diaphragm shall be nonmetallic Acoustalloy and shall have a magnetic shield to prevent dust and iron particles from reaching the diaphragm. The available impedances shall be phased 150 ohm or high-impedance. It shall be possible to select impedance desired by changing microphone leads from one terminal to another at the microphone cable connector. Low impedance output shall be balanced to ground.

The output level at 150 ohms shall be -53 db, with 0 db equalling 1 mw/10 dynes/cm², with EIA sensitivity rating of -147 db. The output level at high impedance shall be -53 db, with 0 db equalling 1 volt/dyne/cm²; with EIA sensitivity rating of -149 db. The magnetic circuit shall be a non-welded circuit and employ Alnico V and Armco magnetic iron.

The case shall be made of pressure cast zinc and brass. The microphone shall have a maximum diameter of 2 $\frac{3}{8}$ in., a length of 16 in., and a weight of 2 lbs. 9 oz. without cable. Finish shall be satin chrome. An 18 ft., two-conductor, synthetic rubber jacketed, broadcast type cable shall be provided. The microphone shall have a built-in cable connector similar or equivalent to the Model MC4M-Amphenol which will mate with a connector similar or equivalent to Model MC4F Amphenol. The microphone shall include a stand coupler with a $\frac{5}{8}$ in.-27 thread on stud.

Specifications

FREQUENCY RESPONSE: 60 to 10,000 cps.

DIRECTIONAL CHARACTERISTICS: Cardioid to 700 cycles, 20 to 25 db. of rejection at the sides and rear above 700 cycles. See polar pattern.

ON-OFF SWITCH: Sliding contact shorts microphone in "OFF" position.

IMPEDANCE: 150 ohms phased, balanced to ground (matches 50 to 250 ohm inputs) and High impedance phased unbalanced outputs on microphone. Impedance selected by moving one wire at cable connector. Available wired 150 ohms or HI-Z.

OUTPUT LEVEL:

High impedance: -53 db*; EIA sensitivity rating: -149 db;
150 ohm impedance: -53 db**; EIA sensitivity rating: -147 db;
*0 db=1 volt/dyne/cm²; **0 db=1 mw/10 dynes/cm²

DIAPHRAGM: Electro-Voice Acoustalloy

MAGNETIC CIRCUIT: Employs Alnico V and Armco magnetic iron in a nonwelded circuit.

CASE: Pressure cast zinc and brass

FINISH: Satin Chromium

DIMENSIONS: Maximum diameter 2 $\frac{3}{8}$ in. Length 16 in.

NET WEIGHT: 2 lb. 9 oz., less cable

CABLE: 18 ft., two conductor, synthetic rubber jacketed, broadcast type, equipped with Model MC4M Amphenol connector on microphone end.

STAND COUPLER: $\frac{5}{8}$ in.-27 thread on stud

OPTIONAL ACCESSORIES: Model 419 Desk Stand

Electro-Voice®

Model 664



Model 664

List \$85.00

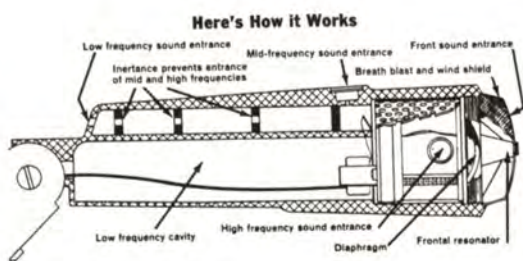
Model 664G (Gold Finished) List \$90.00

The Model 664 is a cardioid microphone of the dynamic type with only one moving element. It is designed specifically for all-purpose public address applications. Because of its excellent and uniform polar response, it is especially useful in locations where random noise and severe reverberation or echo exist. The cardioid pattern is obtained through use of three sound entrances utilizing the proper acoustical impedance and combining to form one effective back entrance which varies in distance from the diaphragm inversely with frequency. The resulting phase and amplitude conditions produce a uniform cardioid pattern over the entire frequency range. This variable front-to-back distance along with dynamic-type construction affords high resistance to mechanical shock and produces virtually no proximity effect.

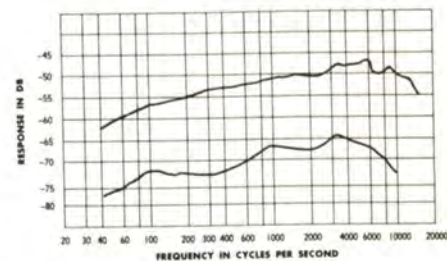
Pop-proof wire mesh grille minimizes wind and breath blasts. Can be used on a floor or desk stand or carried in the hand.

This microphone also features the exclusive Electro-Voice Acoustalloy diaphragm.

The Model 664 is available in custom-matched pairs for stereo recording.



SCALE: 3 DECIBELS PER DIVISION
 A—300 cps B—5,000 cps
 C—10,000 cps
Polar Pattern



Frequency Response



Model 951

List \$54.50

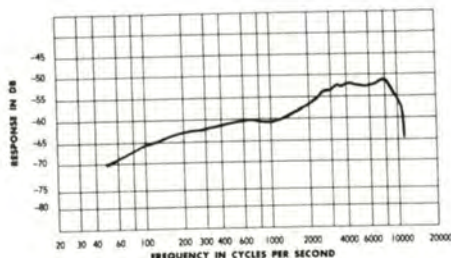
Model 951

An outstanding cardioid microphone of the crystal type, using the new Variable-D principle for obtaining cardioid directivity.

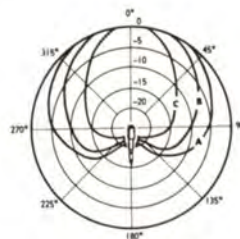
Pop-proof wire mesh grille minimizes wind and breath blasts. Can be used on floor or desk stand or carried in the hand.

The Model 951 gives the following advantages:

1. The uniform cardioid characteristic allows nearly double the pick-up range (distance from performer or sound source to microphone), over that of the conventional nondirectional crystal microphone for average conditions of reverberation, acoustic feedback and room noise. For public address applications, this pick-up range may be increased considerably by proper placement of loudspeakers so that direct and reflected sound strikes the microphone at the back (dead zone).
2. Random room noise and reverberation are reduced by 67%.
3. May be positioned to cancel or diminish unwanted sound pick-up.
4. High crystal capacitance allows use of moderately long microphone cables. The crystal is a Bimorph type sealed against moisture to extend the crystal life.
5. High output level of the Model 951 enables it to be used with any standard amplifier employing high impedance input.



Frequency Response



SCALE: 3 DECIBELS PER DIVISION
 A—300 cps B—5,000 cps
 C—10,000 cps
Polar Pattern

Cardioid Dynamic Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 664 or equivalent. The microphone shall be a cardioid, dynamic type, with uniform frequency response from 40 to 15,000 cps. The diaphragm shall be nonmetallic Acoustalloy and shall have a magnetic shield to prevent dust and iron particles from reaching the diaphragm. Available impedances shall be phased 150-ohm and high impedance. It shall be possible to obtain the impedance desired by moving one connection in microphone connector. Output shall be balanced to ground on low impedance. The microphone shall be provided with three sound entrances located in the microphone case at different distances in back of the diaphragm. These three entrances, each utilizing the proper acoustical impedance, shall combine to form one effective back entrance which varies in distance from the diaphragm inversely with frequency. The resulting phase and amplitude conditions shall provide a uniform cardioid pattern at all frequencies.

The output level for 150-ohm impedance shall be -55 db with 0 db equalling 1 mw/10 dynes/cm². Output level for high impedance shall be -55 db with 0 db equalling 1 volt/dyne/cm². EIA sensitivity rating shall be -149 db for 150-ohm impedance and -151 db for high impedance. The magnetic circuit shall be a nonwelded circuit and employ Alnico V and Armco magnetic iron.

The case shall be made of pressure-cast zinc. The microphone shall have a maximum diameter of 1 $\frac{7}{8}$ in., a length of 7 $\frac{3}{8}$ in., not including stud, and a net weight of 1 lb. 10 oz. less cable and plug. Finish shall be satin chrome or gold (664G). An 18-ft. two-conductor, shielded, synthetic rubber jacketed, broadcast-type cable shall be provided. The microphone shall have a cable connector similar or equivalent to Amphenol Model MC4M. The microphone shall include a stand coupler with a $\frac{5}{8}$ in. -27 thread on stud.

Specifications

FREQUENCY RESPONSE: 40 to 15,000 cps rising.

DIRECTIONAL CHARACTERISTICS: Cardioid, uniform front to back discrimination.

ON-OFF SWITCH: Sliding contact shorts microphone in "OFF" position.

IMPEDANCE: 150 ohms phased balanced to ground (matches 50 to 250 ohm inputs) and high impedance phased unbalanced outputs on microphone. Impedance selected by moving one wire at cable connector. Available wired 150 ohms or Hi-Z.

OUTPUT LEVEL: 150 ohm impedance: -55 db*; EIA sensitivity rating, -149 db. High impedance: -55 db**; EIA sensitivity rating, -151 db.

* 0 db = 1 mw/10 dynes/cm² **0 db = 1 volt/dyne/cm²

DIAPHRAGM: Electro-Voice Acoustalloy

MAGNETIC CIRCUIT: Employs Alnico V and Armco magnetic iron in a nonwelded circuit.

CASE: Pressure-cast zinc

FINISH: Satin Chromium or Gold (664G)

DIMENSIONS: Diameter: 1 $\frac{7}{8}$ in. max.

Length: 7 $\frac{3}{8}$ in., not including stud

NET WEIGHT: 1 lb. 10 oz. without cable

CABLE: 18-ft. two conductor, shielded, synthetic rubber jacketed, broadcast type. Equipped with Model MC4M Amphenol connector

STAND COUPLER: $\frac{5}{8}$ in. -27 thread on stud

OPTIONAL ACCESSORIES: Model 419 Desk Stand

Cardioid Crystal Microphone

Architects' and Engineers' Specifications

The Microphone shall be an Electro-Voice Model 951 or equivalent. The microphone shall be a crystal type, with uniform frequency response from 50 to 11,000 cps. The microphone shall be unidirectional and shall utilize the Variable-D principle. The microphone shall have a high impedance output that shall work into a standard grid resistance of from .5 to 2 megohms. The high impedance output level shall be -60 db. flat with 0 db. equaling 1 volt/dyne/cm². The EIA sensitivity rating shall be -160 db. rising response. The case shall be of high-pressure diecast zinc with Metalustre gray finish. The microphone shall have a maximum net weight of 1 $\frac{1}{4}$ lb. less cable. An 18' single-conductor, shielded cable shall be provided. The microphone shall have a cable connector similar or equivalent to a type MC-1 Amphenol. The mounting stud shall permit tilting the microphone without strain on the connector or cable, and include a built-in ON-OFF switch.

Specifications

FREQUENCY RESPONSE: 50 to 11,000 cps rising.

DIRECTIONAL CHARACTERISTICS: Cardioid

ON-OFF SWITCH: Sliding contact short circuits microphone in "OFF" position.

IMPEDANCE: Hi-Z

OUTPUT LEVEL: -60 db. (0 db. equals 1 volt/dyne/cm²), EIA sensitivity rating -160 db.

CASE: High-pressure diecast zinc

FINISH: Metalustre gray

DIMENSIONS: Diameter: 1 $\frac{3}{4}$ " overall

Length: 5 $\frac{3}{4}$ " without stand-coupler

NET WEIGHT: 1 $\frac{1}{4}$ lb. without cable

CABLE: 18 ft. single conductor shielded. Additional cable reduces the output level, but does not distort frequency response. MC-1 Amphenol cable connector.

STAND COUPLER: $\frac{5}{8}$ " -27 thread

OPTIONAL ACCESSORIES: Model 418 Desk Stand

Electro-Voice® Cardioid Ceramic Microphone Model 729



Model 729
List Price \$24.50
(ILLUSTRATED)

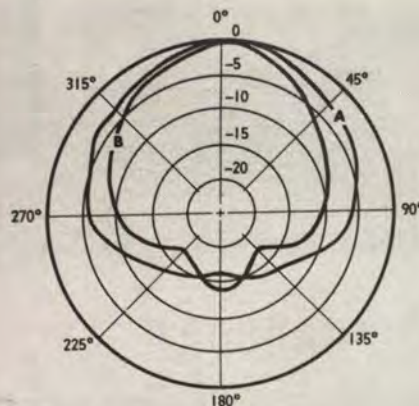
Model 729SR
List Price \$26.50

The small, slim Model 729 is a cardioid microphone of the ceramic type, designed for public address, call and paging systems, dictating machines, home recorders, radio amateurs, and general communication.

This microphone can be used in any climate and is especially useful in locations where random noise and reverberation exist. It is supplied complete with a desk stand and a floor stand adapter or can be hand-held.

The cardioid characteristic of the Model 729 gives wide angle front pick up, but is virtually dead from the rear.

1. This allows nearly double the pick-up range over that of the conventional omnidirectional microphones for average conditions of reverberation, acoustic feedback and room noise. For public address applications, this pick-up range may be increased considerably by proper placement of loudspeakers so that direct and reflected sound strikes the microphone at the back (dead zone).
2. Random room noise and reverberations are reduced by 67%.
3. The microphone may be positioned to cancel or diminish unwanted sound pick-up.
4. High output level enables it to be used with any standard amplifier employing high impedance input.



A—300 cps B—3,000 cps
Polar Pattern

SCALE: 5 DECIBELS PER DIVISION

Specifications

FREQUENCY RESPONSE: 6 to 8,000 cps.

DIRECTIONAL CHARACTERISTIC: Cardioid

ON-OFF SWITCH: (729SR only) Leaf-type removes short from microphone circuit in "ON" position and closes relay circuit.

IMPEDANCE: Hi-Z

OUTPUT LEVEL: -60 db. (0 db. equals 1 volt/dyne/cm²) EIA sensitivity rating -158 db.

CASE: Pressure diecast zinc front and plastic back

FINISH: Metalustre grey front and medium grey back

DIMENSIONS: Length: 7¾" (without stand)

Width: 1½"

Depth: 1¾"

NET WEIGHT: 1 lb. including cable

CABLE: 729: 8½ foot single conductor shielded. 729SR: 8½ foot three conductor (one shielded).

STAND COUPLER: ⅝"—27 thread

TEMPERATURE: May be used in any climate. Will withstand 200°F.

Architects' and Engineers' Specifications

(The following specifications may be used when Model 729SR is required by substituting Model 729 for model number 729.)

The microphone shall be an Electro-Voice Model 729 or equivalent. The microphone shall be an unidirectional, ceramic type, with uniform response from 60 to 8,000 cps. The microphone shall have a high impedance output that shall work into a standard grid resistance of from .5 to 2 megohms. The high impedance output level shall be -60 db. with 0 db. equalling 1 volt/dyne/cm². The EIA sensitivity rating shall be -158 db. rising response. The case shall be of pressure diecast front and grey plastic back. The microphone shall have a maximum net weight of one lb. with cable. An 8½' single conductor, shielded cable shall be provided. The Model 729SR microphone or equivalent shall have an 8½' three conductor cable (one shielded) plus a leaf type switch that removes short circuit in the "ON" position and closes relay circuit.

Nondirectional Dynamic Microphone Model 636

This dynamic type, nondirectional microphone is designed to bring the advantages of slim, trim styling to the public address field. Only 1 1/8 inches in diameter it does not obscure the performers, thus greatly reducing the problems of PA staging. The output level of the Model 636 is equal to that of microphones four times as large. The baton design makes it convenient for hand-held use in audience participation shows. ON-OFF switch in the microphone stud is positive acting and gives instant control of microphone output.

Built-in blast filter of acoustically treated wire mesh grille minimizes wind and breath blasts. In addition a magnetic shield prevents dust and iron particles from reaching the diaphragm.

The Model 636 microphone is nondirectional at low frequencies, becoming slightly directional at high frequencies. This characteristic is a function of the microphone case size and does not classify the Model 636 as a directional microphone.

The 636 is available in custom-matched pairs for stereo recording.

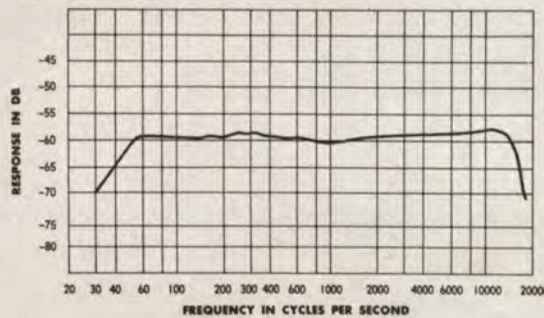
Model 636
List \$72.50

Model 636G
List \$77.50



Polar Pattern

SCALE: 5 DECIBELS PER DIVISION



Frequency Response

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 636 (636G) or equivalent. The microphone shall be a nondirectional, dynamic type with wide-range, uniform response from 60 to 13,000 cps. The diaphragm shall be nonmetallic Acoustalloy and shall have a magnetic shield to prevent dust and iron particles from reaching the diaphragm. The available impedances shall be phased Hi-Z and 150 ohms. The 150 ohm output shall be balanced to ground. The output level for 150 ohms shall be -58 db. with 0 db. equalling 1 mw/10 dynes/cm²; EIA sensitivity rating -152 db. Hi-Z output shall be -58 db. with 0 db. equalling 1 volt/dyne/cm²; EIA sensitivity rating -154 db. The magnetic circuit shall be a nonwelded circuit and employ Alnico V and Armco magnetic iron. The case shall be made of steel. The microphone shall have a diameter of 1 1/8 in., and a weight without cable of 15 oz. Finish shall be satin chrome (or gold). An 18-ft., two conductor, shielded, synthetic rubber-jacketed, broadcast type cable shall be provided. The microphone shall have a built-in cable connector similar or equivalent to the Amphenol Model MC4F connector which will mate with a connector similar or equivalent to the Amphenol MC4M. It shall be possible to tilt the microphone through a 90-degree arc.

Specifications

- FREQUENCY RESPONSE:** 60 to 13,000 cps.
- IMPEDANCE:** 150 ohm phased, balanced to ground (matches 50 to 250 ohm inputs) and High Impedance unbalanced phased outputs on microphone. Impedance selected by moving one wire at cable connector. Available wired 150 ohms or Hi-Z
- OUTPUT LEVEL:** 150 ohms impedance: -58 db*; EIA sensitivity rating -152 db. Hi-Z impedance: -58 db**; EIA sensitivity rating -154 db.
*0 db. equals 1 mw/10 dynes/cm²
**0 db. equals 1 volt/dyne/cm²
- DIAPHRAGM:** Electro-Voice Acoustalloy
- DIRECTIONAL CHARACTERISTICS:** Nondirectional
- ON-OFF SWITCH:** Sliding contact shorts microphone in "OFF" position.
- MAGNETIC CIRCUIT:** Employs Alnico V and Armco magnetic iron in a nonwelded circuit
- CASE:** Steel
- FINISH:** Satin Chromium. Also available in Gold Finish, (636G)
- CABLE:** 18-ft., two-conductor, shielded, synthetic rubber jacketed, broadcast type
- CABLE CONNECTOR:** MC4M Amphenol
- STAND COUPLER:** 5/8" -27 thread
- DIMENSIONS:** Diameter: 1 1/8", Length: 10 1/4"
- NET WEIGHT:** 15 oz.
- OPTIONAL ACCESSORIES:** Model 418 Desk Stand

Electro-Voice® Model 647

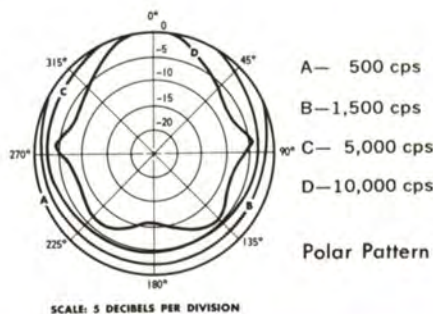


Model 647
List \$82.50

The Electro-Voice Model 647 Lavalier microphone is a dynamic nondirectional type providing smooth, wide range response and high output. This slim, miniaturized microphone can be hung on a neck cord close to the chest — leaving hands of the announcer or performer free for demonstrations — or it can be held in the hand, used on a desk stand, or suspended from a boom. It is excellent for use wherever microphone concealment, individual mobility, or free movement of the hands is desired. Its frequency response is tailored to meet the demands of lavalier operation. No closely associated auxiliary equipment is required.

Pop-proof wire mesh grille minimizes wind and breath blasts. Supplied complete with combination neck cord, tie clip for microphone, belt clip for cable and 18 ft. cable.

The Model 647 features the exclusive Electro-Voice Acoustalloy diaphragm. This nonmetallic diaphragm permits smooth response over a wide frequency range and withstands high humidity, temperature extremes, corrosive effects of salt air and severe mechanical shocks. It is practically indestructible with normal use.



Model 623

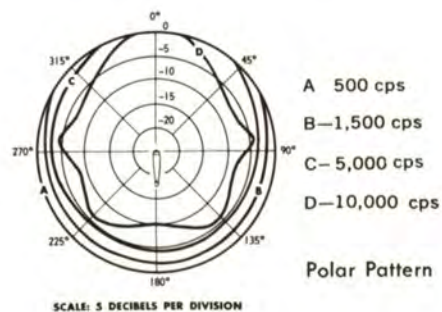
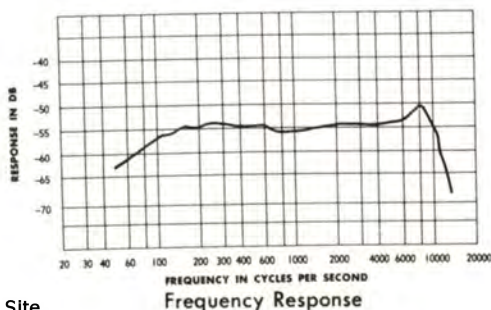


Model 623
List \$57.00

A fine quality dynamic, nondirectional type designed for public address, recording, and communication. It is excellent for both music and speech. Its small slim size makes it inconspicuous and easy to handle.

Mounts on a swivel which permits tilting the microphone through a 57° arc toward the sound source. The Model 623 microphone can be mounted on a floor or desk stand or held in the hand. It also has a convenient "On-Off" switch.

The Model 623 microphone features the exclusive Electro-Voice Acoustalloy diaphragm. This nonmetallic diaphragm permits smooth response over a wide frequency range and withstands high humidity, temperature extremes, corrosive effects of salt air, and severe mechanical shocks. It is practically indestructible with normal use. The Model 623 is available in custom matched pairs for stereo recording.

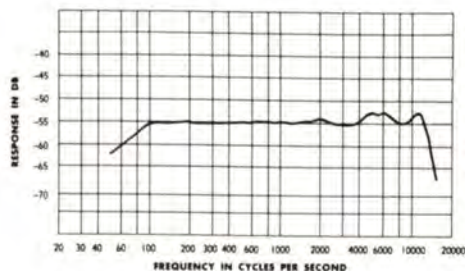


Nondirectional Dynamic Lavalier Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 647 or equivalent. The microphone shall be a nondirectional, dynamic type with wide-range, uniform response from 60 to 10,000 cps. The diaphragm shall be nonmetallic Acoustalloy and shall have a magnetic shield to prevent dust and iron particles from reaching the diaphragm. The available impedances shall be phased Hi-Z and 150 ohms. The 150 ohm output shall be balanced to ground.

The output level for 150 ohms shall be -55 db. with 0 db. equalling 1 mw/10 dynes/cm²; EIA sensitivity rating -149 db. Hi-Z output shall be -55 db. with 0 db. equalling 1 volt/dyne/cm²; EIA sensitivity rating -151 db. The magnetic circuit shall be a nonwelded circuit and employ Alnico V and Armco magnetic iron. The case shall be made of high tensile aluminum. The microphone shall have a diameter of 1 1/8 in., and a weight without cable of 6 oz. Finish shall be non-reflecting gray. An 18-ft. two-conductor, shielded, synthetic-jacketed, broadcast type cable shall be provided. The microphone shall have a lug-type, detachable connector. A neck cord and clip assembly shall be provided.



Frequency Response

Specifications

FREQUENCY RESPONSE: Smooth, peak-free, 60 to 10,000 cps, with slightly rising characteristic specifically calculated to assure crisp, clear pickup when Model 647 is used on the chest as a lavalier, in the hand or on a desk

DIRECTIONAL CHARACTERISTICS: Nondirectional

IMPEDANCE: 150 ohms phased, balanced to ground (matches 50 to 250 ohm input) and high impedance phased unbalanced outputs on microphone. Impedance selected by moving one wire at cable connector. Available wired 150 ohms or Hi-Z

OUTPUT LEVEL: 150 ohms: -55 db.*; EIA sensitivity rating -149 db. High-impedance: -55 db.**; EIA sensitivity rating -151 db. *0 db. equals 1 mw/10 dynes/cm² **0 db. equals 1 volt/dyne/cm²

DIAPHRAGM: Electro-Voice Acoustalloy

MAGNETIC CIRCUIT: Employs Alnico V and Armco magnetic iron in a nonwelded, precision-ground, magnetic structure

CASE: Lathe turned, high tensile strength aluminum

FINISH: Non-reflecting gray

DIMENSIONS: Diameter: 1 1/8", Length: 5"

NET WEIGHT: 6 oz., less cable.

CABLE: Standard broadcast, two-conductor, shielded, synthetic-jacketed, 18 ft. long with lug type detachable cable connector

STANDARD ACCESSORIES: Hex Key Wrench, Belt strain relief clip, Spanner wrench and Neck cord sub assembly

OPTIONAL ACCESSORIES: Model 300 Stand Adapter, Model 366 Suspension Shock Mount, Model 416 and 420 Desk Stand

Nondirectional Dynamic Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 623 or equivalent. The microphone shall be a dynamic, nondirectional type, with uniform frequency response from 60 to 12,000 cps. The diaphragm shall be nonmetallic Acoustalloy and shall have a magnetic shield to prevent dust and iron particles from reaching the diaphragm. Available impedances shall be phased 150-ohm and high impedance. It shall be possible to obtain the impedance desired by moving one connection in microphone connector. Line shall be balanced to ground on low impedance.

The output level for 150-ohm impedance shall be -56 db. with 0 db. equalling 1 mw/10 dynes/cm². Output level for high impedance shall be -56 db. with 0 db. equalling 1 volt/dyne/cm². EIA sensitivity rating shall be -151 db. for 150-ohm impedance and -152 db. for high impedance. The magnetic circuit shall be a nonwelded circuit and employ Alnico V and Armco magnetic iron.

The case shall be made of pressure-cast zinc. The microphone shall have a maximum diameter of 1 3/8 in., a length of 7 1/2 in., including stud, and a net weight of 15 oz., less cable. Finish shall be satin chrome. An 18-ft., two-conductor shielded, synthetic rubber jacketed, broadcast-type cable shall be provided. The microphone shall have a cable connector similar or equivalent to Amphenol Model MC4 built into the microphone stud.

The microphone shall include a stand coupler with a 5/8 in. -27 thread on the stud and be equipped with an off-on switch. The stand coupler will allow tilting of the microphone without strain on the connector or cable. Electro-Voice Model 623 is specified.

Specifications

FREQUENCY RESPONSE: 80 to 12,000 cps.

DIRECTIONAL CHARACTERISTICS: Nondirectional

ON-OFF SWITCH: Sliding contact type shorts microphone in "OFF" position

IMPEDANCE: 150 ohms phased, balanced to ground (matches 50 to 250 ohm input) and high impedance phased unbalanced outputs on microphone. Impedance selected by moving one wire at cable connector. Available wired 150 ohms or Hi-Z

OUTPUT LEVEL: 150-ohms impedance: -56 db.*; EIA sensitivity rating, -151 db. High impedance: -56 db.**; EIA sensitivity rating, -152 db.

*0 db. equals 1 mw/10 dynes/cm²

**0 db. equals 1 volt/dyne/cm²

DIAPHRAGM: Electro-Voice Acoustalloy

MAGNETIC CIRCUIT: Employs Alnico V and Armco magnetic iron.

CASE: Pressure die cast

FINISH: Satin Chromium

DIMENSIONS: Diameter: 1 3/8"

Length: 7 1/2" including stud

NET WEIGHT: 15 oz. without cable

CABLE: 18-ft., two-conductor, shielded, synthetic rubber jacketed with Model MC4M Amphenol connector on microphone end

STAND COUPLER: 5/8" -27 thread on stud

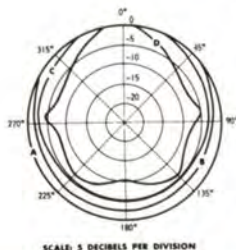
OPTIONAL ACCESSORIES: Model 418 Desk Stand

Electro-Voice®

**Model 648
Nondirectional
Dynamic
Microphone**

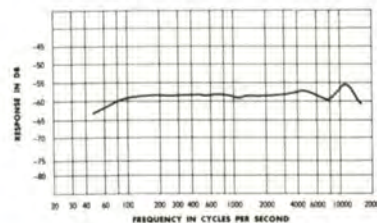


**Model 648
(ILLUSTRATED ON 448 STAND)
List \$56.00**



A— 500 cps
B— 1,500 cps
C— 5,000 cps
D— 10,000 cps

Polar Pattern



Frequency Response

**Model 630
Nondirectional
Dynamic
Microphone**



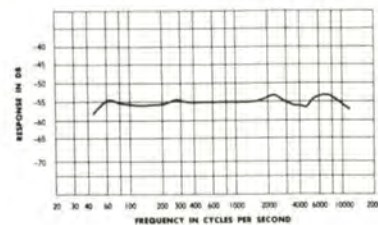
Model 630

List \$52.50



A— 500 cps
B— 1,500 cps
C— 5,000 cps
D— 10,000 cps

Polar Pattern



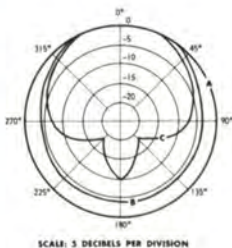
Frequency Response

**Model 611
Nondirectional
Dynamic
Microphone**



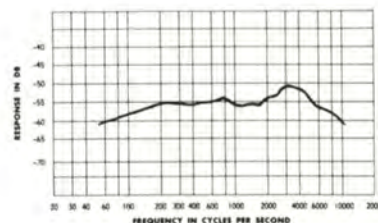
Model 611

List \$45.00



A— 500 cps
B— 1,400 cps
C— 3,500 cps

Polar Pattern



Frequency Response

The Electro-Voice Model 648 microphone is a dynamic, nondirectional type providing smooth, wide range response and high output. Originally created for control console use in TV and broadcast studios, this small, slim microphone can be mounted in many ways.

The Model 648 microphone is furnished with a built-in connector and mating adapter which allows mounting on a rigid or flexible boom, desk or floor stand. All leads can be concealed. A pop-proof wire mesh grille minimizes breath blasts.

The Model 648 microphone features the exclusive Electro-Voice Acoustalloy diaphragm. This nonmetallic diaphragm permits smooth response over a wide frequency range and withstands high humidity, temperature extremes, corrosive effects of salt air, and severe mechanical shocks. It is practically indestructible with normal use.

Dynamic, nondirectional type designed for public address work, all types of dispatching call systems, industrial applications, remote pickups, recording, visual education, auditoriums, schools, churches, hotels, theatres, amateur radio and general communication service. It is excellent for both music and speech.

The airfoil case provides a nondirectional pattern becoming directional at high frequencies. The Model 630 may be mounted on a floor or desk stand and tilted through a 90° arc toward sound source. It can also be held in the hand.

The Model 630 microphone features the exclusive Electro-Voice Acoustalloy diaphragm. This nonmetallic diaphragm permits smoother response over a wider frequency range and withstands high humidity, temperature extremes, corrosive effects of salt air and severe mechanical shocks. It is practically indestructible in normal use.

The Electro-Voice Model 611 is a pressure type microphone. Traditionally styled it combines compact, sturdy construction with high level output, selective pick-up, and pleasing appearance. It offers unusual value for a wide variety of P. A. and general-purpose work . . . dispatching, call and paging system; amateur radio; and general communications service. The exclusive E-V Acoustalloy diaphragm virtually eliminates maintenance cost. The 611 is also ideal for home and school use with tape recorders.

Architects' and Engineers' Specifications

The microphone shall be the Electro-Voice Model 648 or equivalent. The microphone shall be a dynamic type with a nonmetallic Acoustalloy diaphragm. The microphone shall have a magnetic shield to prevent dust and iron particles from reaching the diaphragm. The microphone shall have a uniform frequency response from 50 to 10,000 cps. Available impedances shall be phased 150 ohms and HI-Z. 150 ohm output shall be balanced to ground.

The output level for 150 ohms shall be -58 db. with 0 db. equalling 1 mw/10 dynes/cm². EIA sensitivity rating -152 db. HI-Z output shall be -58 db. with 0 db. equalling 1 volt/dyne/cm². EIA sensitivity rating -154 db. The magnetic circuit shall be a nonwelded circuit and employ Alnico V and Armco magnetic iron.

The case shall be made of high tensile, lathe-turned aluminum. The microphone shall have a diameter of 1 7/8 in., and a length of 5 3/8 in. The net weight of the microphone shall be 6 oz. Finish of the microphone shall be nonreflecting gray. No cable shall be supplied.

The microphone shall be supplied with two Allen wrenches and Model 348 Adapter which includes connector.

Specifications

FREQUENCY RESPONSE: Uniform from 50 to 10,000 cps.
IMPEDANCE: 150 ohms phased, balanced to ground (matches 50 to 250 ohm input) or high impedance phased unbalanced outputs available. Specify when ordering.
OUTPUT LEVEL: 150 ohms impedance: -58 db*; EIA sensitivity rating, -152 db. High impedance: -58 db**; EIA sensitivity rating -154 db.
 *0 db equals 1 mw/10 dynes/cm².
 **0 db equals 1 volt/dyne/cm².
DIRECTIONAL CHARACTERISTICS: Nondirectional, becoming slightly directional at high frequencies
DIAPHRAGM: Electro-Voice Acoustalloy
MAGNETIC CIRCUIT: Employs Alnico V and Armco magnetic iron in a non-welded circuit.
CASE: High tensile, lathe-turned aluminum
FINISH: Non-reflecting gray
DIMENSIONS: Microphone only
 Diameter: 1 7/8"
 Length: 5 3/8"
NET WEIGHT: 6 oz.
CABLE: None supplied
STD. ACCESSORIES SUPPLIED: 2 Allen wrenches; Model 348 Adapter.

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 630 or equivalent. The microphone shall be a dynamic type, with uniform frequency response from 60 to 11,000 cps. The diaphragm shall be non-metallic Acoustalloy and shall have a magnetic shield to prevent dust and iron particles from reaching the diaphragm.

Available impedances shall be phased 150 ohms and HI-Z. 150 ohm output shall be balanced to ground.

The output level for 150 ohms shall be -55 db. with 0 db. equalling 1 mw/10 dynes/cm². EIA sensitivity rating -148 db. HI-Z output shall be -55 db. with 0 db. equalling 1 volt/dyne/cm². EIA sensitivity rating -151 db. The magnetic circuit shall be a non-welded circuit and employ Alnico V and Armco magnetic iron.

The case shall be pressure cast zinc. The microphone shall have a diameter of 2 inches, a length of 6 1/4 inches including stud and a weight of 1 pound less cable. Finish of the microphone shall be satin chromium. An 18-ft, two-conductor, shielded, synthetic rubber jacketed, broadcast type cable shall be included with the low-impedance models. An 18-ft, single-conductor, shielded, synthetic rubber jacketed cable shall be included with the high-impedance model. The microphone shall have a built-in MC-3 locking, three-contact wiping type cable connector. It shall be possible to tilt the microphone through a 90-degree arc without strain on the connector or cable.

The microphone shall include a stand coupler with a 5/8 inch -27 thread on stud to permit use on standard floor or desk stands.

Specifications

FREQUENCY RESPONSE: Uniform from 60 to 11,000 cps.
DIRECTIONAL CHARACTERISTICS: Essentially nondirectional, becoming slightly directional with rise in frequency.
ON-OFF SWITCH: Sliding contact type short circuits microphone in "OFF" position
IMPEDANCE: 150 ohms phased, balanced to ground (matches 50 to 250 ohm input) or high impedance phased unbalanced outputs available. Specify when ordering.
OUTPUT LEVEL: 150 ohms impedance: -55 db*; EIA sensitivity rating, -148 db. High impedance: -55 db**; EIA sensitivity rating -151 db.
 *0 db equals 1 mw/10 dynes/cm².
 **0 db equals 1 volt/dyne/cm².
DIAPHRAGM: Electro-Voice Acoustalloy
MAGNETIC CIRCUIT: Employs Alnico V and Armco magnetic iron in a non-welded circuit
CASE: Pressure cast zinc
FINISH: Satin chromium
DIMENSIONS: Diameter: 2", Length: 6 1/4"
NET WEIGHT: 1 lb. less cable
CABLE: Low-Impedance Models: 18 ft, two conductor, shielded, synthetic rubber jacketed with MC3M Amphenol connector on microphone end. High-Impedance Models: 18 ft, single-conductor, synthetic rubber jacketed with MC3M Amphenol connector on microphone end.
STAND COUPLER: 5/8" -27 thread on stud

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 611 or equivalent. The microphone shall be a pressure, dynamic type, with uniform frequency response from 50 to 9,000 cps. The diaphragm shall be made of non-metallic Acoustalloy. Available impedances shall be phased 150 ohms and HI-Z. 150 ohm output shall be balanced to ground.

The output level for 150 ohms shall be -55 db. with 0 db. equalling 1 mw/10 dynes/cm². EIA sensitivity rating -149 db. HI-Z output shall be -55 db. with 0 db. equalling 1 volt/dyne/cm². EIA sensitivity rating -151 db.

The case shall be of high-pressure die-cast zinc with satin chrome finish. The microphone shall have a maximum net weight of not more than 1 lb. 4 oz. including cable. An 18 ft. two-conductor shielded synthetic rubber jacketed cable for a low impedance microphone or an 18 ft. single conductor shielded synthetic rubber jacketed cable for high impedance shall be provided. The microphones shall have a cable connector similar or equivalent to a MC-3 connector on low impedance and a MC-1 connector on high impedance microphones. The mounting stud shall permit tilting the microphone without strain on the connector or cable, and include a built-in ON-OFF switch. The microphone shall include a stand coupler with a 5/8 in. -27 thread on stud.

Specifications

FREQUENCY RESPONSE: 50 to 9,000 cps.
DIRECTIONAL CHARACTERISTICS: Nondirectional, becoming slightly directional at high frequencies
DIAPHRAGM: Electro-Voice Acoustalloy
ON-OFF SWITCH: Sliding contact short circuits microphone in "off"
IMPEDANCE: 150 ohms phased, balanced to ground (matches 50 to 250 ohm input) or high impedance phased unbalanced outputs available. Specify when ordering.
OUTPUT LEVEL: 150 ohms impedance: -55 db*; EIA sensitivity rating, -149 db. High impedance: -55 db**; EIA sensitivity rating -151 db.
 *0 db equals 1 mw/10 dynes/cm².
 **0 db equals 1 volt/dyne/cm².
MAGNETIC CIRCUIT: Employs Alnico V and Armco magnetic iron in a non-welded circuit
CASE MATERIAL: High-pressure die-cast zinc
FINISH: Satin chromium
DIMENSIONS: 2 3/8" wide, 3 1/8" deep, 6 1/4" high including stud
NET WEIGHT: 1 1/4 lb.
CABLE: 18-ft. single conductor shielded for HI-Z with MC-1M connector on microphone end
 18-ft. two-conductor shielded for low impedance with MC-3M connector on microphone end
STAND COUPLER: 5/8" -27 thread

Electro-Voice® Model 624

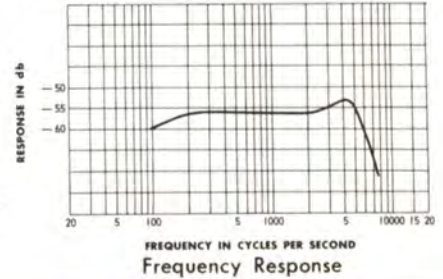
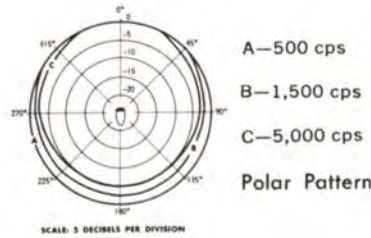


Model 624
List \$42.50

A dynamic, nondirectional lavalier microphone providing smooth response from 100 to 7,000 cps. It is ideal for home recording, paging, public address, and amateur radio. Easy to hold by hand or to use as a lavalier microphone because of its small size . . . it is excellent where microphone concealment, individual mobility, or free movement of the hands is desired.

Pop-proof wire mesh grille minimizes wind and breath blasts. Supplied complete with combination neck cord and tie clip for microphone and 18 ft. cable.

The Model 624 features the exclusive Electro-Voice Acoustalloy diaphragm. This nonmetallic diaphragm withstands high humidity, temperature extremes, corrosive effects of salt air and severe mechanical shocks. It is practically indestructible with normal use.



Model 605
List \$32.50

The Electro-Voice Model 605 was designed to bring all the advantages of Dynamic microphones to the P.A. field at a budget price. It combines excellent speech pick-up characteristics with high level output and pleasing appearance. Its durable construction and exclusive E-V Acoustalloy diaphragm permit indoor and outdoor use without fear of damage from hard usage, extreme temperature or humidity . . . practically no maintenance cost. At low frequencies this microphone has a nondirectional pick-up pattern which becomes slightly directional with increased frequency. This characteristic is a function of the size of the microphone case and does not classify it as a directional microphone but it does provide a means for minimizing high-frequency acoustic feed back.

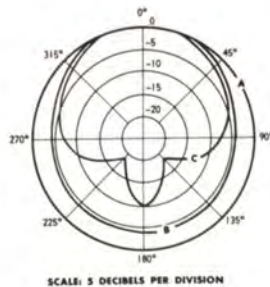


A— 500 cps
B—1,500 cps
C— 5,000 cps
D—10,000 cps
Polar Pattern

Model 605



Model 615
List \$25.50



A—500 cps.
B—1,500 cps.
C—4,000 cps.
Polar Pattern

Model 615

Specifically designed for paging, home recording, amateur radio and other low cost applications, the Model 615 provides wide versatility plus extreme ruggedness. It can be hand-held or mounted on a table or floor stand.

This nondirectional microphone uses an efficient dynamic element with an Acoustalloy diaphragm in a sturdy die cast case to withstand extremes of shock, temperature, humidity and corrosion.

Nondirectional Lavalier Dynamic Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 624 or equivalent. The microphone shall be a nondirectional, dynamic type with uniform response from 100 to 7,000 cps. The diaphragm shall be nonmetallic Acoustalloy and shall have a magnetic shield to prevent dust and iron particles from reaching the diaphragm. The available impedances shall be Hi-Z or 150 ohms. The output shall be unbalanced to ground and phased.

The output level for 150 ohms shall be -58 db. with 0 db. equalling 1 mw/10 dynes/cm²; EIA Sensitivity Rating -150 db. Hi-Z output level shall be -56 db. with 0 db. equalling 1 volt/dyne/cm²; EIA Sensitivity Rating -152 db. The magnetic circuit shall be a nonwelded circuit and employ Alnico V and Armco magnetic iron. The case shall be made of pressure cast zinc. The microphone shall have a diameter of 1 $\frac{1}{2}$ in., and a weight with cable of 14 oz. Finish shall be satin chromium. An 18-ft. single conductor, shielded, rubber-jacketed cable shall be provided.

Specifications

FREQUENCY RESPONSE: 100 to 7,000 cps.
DIRECTIONAL CHARACTERISTICS: Nondirectional
IMPEDANCES AVAILABLE: Phased high impedance or 150 ohms. (Unbalanced to ground.)
OUTPUT LEVEL: 150 ohms: -58 db.*; EIA sensitivity rating -150 db. High-Impedance: -56 db.**; EIA sensitivity rating -152 db.
 *0 db. equals 1 mw/10 dynes/cm²
 **0 db. equals 1 volt/dyne/cm²
DIAPHRAGM: Electro-Voice Acoustalloy
CASE: Pressure die cast
MAGNETIC CIRCUIT: Employs Alnico V and Armco magnetic iron.
FINISH: Satin chromium
ACCESSORIES INCLUDED: Neck Cord
DIMENSIONS: Diameter: 1 $\frac{1}{2}$ in. Length: 3 $\frac{1}{2}$ in.
NET WEIGHT: 14 oz. including cable
CABLE: 18 ft, single-conductor, shielded, rubber jacketed

Nondirectional Dynamic Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 605 or equivalent. The microphone shall be a pressure, dynamic type, with uniform frequency response from 65 to 8,000 cps. The diaphragm shall be made of nonmetallic Acoustalloy. The microphone shall be either 150 ohms or high impedance. High-impedance models shall work into a standard grid input resistance of from .25 to 5 megohms. The output shall be phased.

The output level for high impedance shall be -56 db. with 0 db. equalling 1 volt/dyne/cm². The output level for 150 ohms shall be -56 db. with 0 db. equalling 1 mw/10 dynes/cm². EIA Sensitivity Rating shall be -148 db. for 150 ohms and -151 db. for high impedance. The magnetic circuit shall be a nonwelded circuit and employ Alnico V and Armco magnetic iron.

The case shall be of high-pressure die-cast zinc with satin chrome finish. The microphone shall have a maximum net weight of not more than 12 oz. less cable. An 18 ft. single-conductor shielded synthetic rubber jacketed cable for the microphone shall be provided. The microphone shall have a cable connector similar or equivalent to an MC-1 connector. The microphone shall include a stand coupler with a $\frac{5}{8}$ in. -27 thread on the stud and the head shall be tilted at a fixed angle of 22°.

Specifications

FREQUENCY RESPONSE: 65 to 8000 cps
DIRECTIONAL CHARACTERISTICS: Nondirectional, becoming slightly directional at high frequencies.
IMPEDANCES AVAILABLE: Choice of 150 ohms or Hi-Z (unbalanced to ground and phased).
OUTPUT LEVEL: Low impedance: -56 db. (0 db. equals 1 mw/10 dynes/cm²). High impedance: -56 db. (0 db. equals 1 volt/dyne/cm²)
EIA SENSITIVITY RATING: -148 db. for 150 ohms and -151 db. for High Impedance.
DIAPHRAGM: Electro-Voice Acoustalloy
MAGNETIC CIRCUIT: Employs Alnico V and Armco magnetic iron in a nonwelded circuit.
CASE: High-pressure die-cast zinc.
FINISH: Satin chromium
DIMENSIONS: 3 $\frac{1}{4}$ " deep x 2 $\frac{1}{2}$ " high x 2" wide.
NET WEIGHT: 12 oz. less Cable
CABLE: 18 ft. single conductor, shielded, with MC-1 connector on microphone end.
STAND COUPLER: $\frac{5}{8}$ in. -27 thread or stud.

Nondirectional Dynamic Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 615 or equivalent. The microphone shall be a pressure, dynamic type, with uniform frequency response from 80 to 8000 cps. The diaphragm shall be made of nonmetallic Acoustalloy. The microphone shall have either of the following impedances . . . 150 ohms or high impedance. High-impedance models shall work into a standard grid input resistance of from .25 to 5 megohms. The output shall be phased.

The output level for high impedance shall be -55 db. with 0 db. equalling 1 volt/dyne/cm². The output level for 150 ohms shall be -55 db. with 0 db. equalling 1 mw/10 dynes/cm². EIA Sensitivity Rating shall be -148 db. for 150 ohms, and -151 db. for high impedance. The magnetic circuit shall be a nonwelded circuit and employ Alnico V and Armco magnetic iron.

The case shall be of high-pressure die-cast zinc with Metalustre grey finish. The microphone shall have a maximum net weight of not more than 10 oz. including cable. A 5 ft. single-conductor shielded synthetic rubber jacketed cable for the microphone shall be provided. The microphone shall include a stand coupler adapter with a $\frac{5}{8}$ in. -27 thread.

Specifications

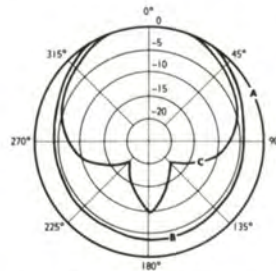
FREQUENCY RESPONSE: 80 to 8000 cps
DIRECTIONAL CHARACTERISTICS: Nondirectional, becoming slightly directional at high frequencies.
IMPEDANCE: Phased 150 ohm (unbalanced to ground) or High Impedance.
OUTPUT LEVEL: High Impedance: -55 db.*; EIA sensitivity rating: -151 db. 150 ohm Impedance: -55 db.**; EIA sensitivity rating: -148 db.
 *0 db. = 1 volt/dyne/cm²
 **0 db. = 1 mw/10 dynes/cm²
DIAPHRAGM: Electro-Voice Acoustalloy
MAGNETIC CIRCUIT: Employs Alnico V and Armco magnetic iron in a nonwelded circuit.
CASE: Pressure cast zinc.
FINISH: Metalustre grey
DIMENSIONS: 3" high x 2 $\frac{1}{16}$ " wide x 1" deep
NET WEIGHT: 10 oz. including cable
CABLE: 5 ft. single conductor, shielded plastic jacketed
STAND COUPLER: $\frac{5}{8}$ " -27 thread adapter provided
OPTIONAL ACCESSORIES: Model 415 Desk Stand



Model 911
List \$32.50

Electro-Voice® Model 911

Electro-Voice Model 911 is a pressure type, crystal microphone. Traditionally styled, it is an economical all around microphone for amateur radio, general communication, and P. A. and paging systems in auditoriums, churches, hotels, theaters, offices, and schools. It is also excellent for home tape recording. Its high output level makes it possible to operate the amplifier at a lower gain setting. Compact and sturdy, the Model 911 withstands a maximum of hard usage. The diaphragm of the Model 911 is specially designed to operate as a piston, thereby eliminating "break-up" and distortion at high frequencies.



A—500 cps B—1,400 cps
C—3,500 cps
Polar Pattern

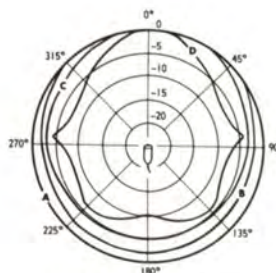
SCALE: 5 DECIBELS PER DIVISION



Model 926
List \$29.50

Model 926

The Electro-Voice Model 926 with its slim, contour styling is inconspicuous and easy to handle. Modestly priced, it is an excellent choice for all types of P. A., call and paging systems, home tape recorders, amateur radio, and general communications. Swivel mounting permits tilting the Model 926 microphone through a 105° arc towards the sound source. The Model 926 can be mounted on a floor or desk stand, on a boom, or carried in the hand.



A— 500 cps C—4,000 cps
B—1,200 cps D—8,000 cps
Polar Pattern

SCALE: 5 DECIBELS PER DIVISION

Nondirectional Crystal Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 911 or equivalent. The microphone shall be a pressure, crystal type, with uniform frequency response from 50 to 9000 cps. The microphone shall be nondirectional becoming slightly directional at high frequencies. The microphone shall have a high impedance output that shall work into a standard grid resistance of from .5 to 2 megohms. The high-impedance output level shall be -50 db. with 0 db. equalling 1 volt/dyne/cm². The EIA sensitivity rating shall be -150 db.

The case shall be of high-pressure die-cast zinc with a satin chromium finish. The microphone shall have a maximum net weight of 1½ lbs. less cable. An 18' single-conductor shielded synthetic rubber jacketed cable shall be provided. The microphone shall have a cable connector similar or equivalent to a MC-1 Amphenol. The mounting stud shall permit tilting the microphone without strain on the connector or cable, and include a built-in ON-OFF switch.

Specifications

FREQUENCY RESPONSE: 50 to 9000 cps
DIRECTIONAL CHARACTERISTICS: Nondirectional, becoming slightly directional at high frequencies.
ON-OFF SWITCH: Sliding contact short circuits microphone in off position.
IMPEDANCES AVAILABLE: High impedance
OUTPUT LEVEL: High impedance: -50 db. (0 db. equals 1 volt/dyne/cm²). EIA Sensitivity Rating: -150 db.
CABLE: 18' single-conductor shielded with MC-1 Amphenol connector. Additional cable reduces the output level but does not distort frequency curves.
STAND COUPLER: ⅝ in. -27 thread on stud
CASE MATERIAL: High-pressure die-cast zinc
FINISH: Satin chromium
NET WEIGHT: 1½ lb. less cable
DIMENSIONS: 2⅜" wide, 3⅛" deep, 6¼" high including stud

Nondirectional Crystal Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 926 or equivalent. The microphone shall be a pressure, crystal type, with uniform frequency response from 60 to 8000 cps. The microphone shall be nondirectional. The microphone shall have a high impedance output that shall operate into a standard grid resistance of from .5 to 2 megohms. The high impedance output level shall be -60 db. with 0 db. equalling 1 volt/dyne/cm². The EIA sensitivity rating shall be -160 db.

The case shall be of high-pressure die-cast zinc with a satin chrome finish. The microphone shall have a maximum net weight of 11 oz. less cable. An 18' single-conductor shielded synthetic rubber jacketed cable shall be provided with a strain relief at the microphone. A ⅝" -27 thread stand coupler shall be provided.

Specifications

TYPE: Crystal
FREQUENCY RESPONSE: 60 to 8,000 cps.
DIRECTIONAL CHARACTERISTICS: Nondirectional
IMPEDANCE: High impedance
OUTPUT LEVEL: -60 db. (0 db. = 1 volt/dyne/cm²); EIA sensitivity rating, -160 db.
CASE: Pressure die cast
FINISH: Satin chromium
DIMENSIONS: Diameter: 1⅝ in. Length: 6¾ in.
NET WEIGHT: 11 oz.
CABLE: 18-ft, single-conductor, shielded, rubber jacketed. Equipped with strain relief spring to prevent cable breakage.
STAND COUPLER: ⅝ in. -27 thread on stud

Electro-Voice® Model 920



Model 920
ILLUSTRATED ON
MODEL 423A STAND
LIST \$27.50

The Model 920 Spherex is a nondirectional crystal type microphone designed for conference or group pick-up. Its diaphragm is uniquely mounted in a horizontal plane resulting in high sensitivity to sound arriving from any direction. It is useful in public address work, recording, amateur and general communications service. The crystal is protected against moisture to extend service life. The open grille reduces internal reflection and diffraction. Accurate reproduction without imposed peaks or dips is the result of correct coordination of diaphragm design, reflection-free grille and crystal housing. Frequency response is slightly rising from 60 to 7000 cps—adding desired crispness to speech.



A—All frequencies in the response spectrum.

Model 924



Model 924
LIST \$20.00

The Electro-Voice Model 924 features amazing performance for a microphone priced so reasonably. It is a crystal, nondirectional type providing a smooth response from 60 to 8000 cps. This response is adjusted for best lavalier operation. The 924 is ideal for home recording, paging, public address and amateur radio.

The Model 924 is easy to hold by hand or to use as a lavalier microphone because of its small size.



A— 500 cps C— 5,000 cps
B—1,500 cps D—10,000 cps
Polar Pattern

Model 727 and

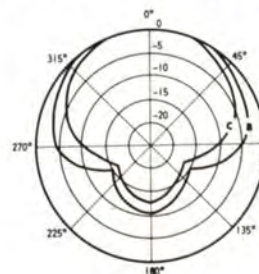


Model 727
LIST \$18.00

Model 727SR
(ILLUSTRATED)
LIST \$20.00

The Electro-Voice Models 727 and 727SR microphones are modestly priced ceramic nondirectional types designed for public address, call and paging systems, dictating machines, home recorders, radio amateurs and general communications. Their small, slim size makes them easy to handle and an attractive addition to any installation.

The Models 727 and 727SR are mounted in sturdy die-cast metal and plastic cases, designed for comfortable hand-held operation. Slip-in diecast desk stand is included for table-top use, plus a slip-in plastic 5/8"-27 stand adapter.



SCALE: 5 DECIBELS PER DIVISION
A—1,000 cps C—5,000 cps
B—2,000 cps

Polar Pattern

Nondirectional Crystal Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 920 or equivalent. The microphone shall be a crystal type with slightly rising frequency response from 60 to 7000 cps. The diaphragm shall be Duralumin and shall be treated to resist corrosion. It shall have a high impedance output.

The output level shall be -50 db. with 0 db. equalling 1 volt/dyne/cm². EIA sensitivity rating shall be -150 db. The crystal shall be protected against moisture.

The case shall be pressure diecast zinc. The microphone shall have a diameter of 2 $\frac{3}{8}$ inches, a length of 2 $\frac{1}{8}$ inches and a weight of 8 oz. Finish of microphone shall be satin chrome. An 18-ft. single conductor, shielded, synthetic rubber-jacketed cable shall be included. The microphone shall include a stand coupler with a $\frac{5}{8}$ inch -27 thread to permit use with a desk stand such as the Electro-Voice Model 423 A.

Specifications

FREQUENCY RESPONSE: Slightly rising from 60 to 7000 cps.
IMPEDANCE: Hi-Z (25,000 ohms). Microphone can be used with any modern amplifier or recorder employing high impedance input.
OUTPUT LEVEL: -50 db. (0 db. equals 1 volt/dyne/cm². EIA sensitivity rating: -150 db.
DIAPHRAGM: Duralumin. Treated to resist corrosion.
CRYSTAL: High capacity, protected against moisture
CASE: High-pressure diecast zinc
FINISH: Satin chromium
DIMENSIONS: Diameter: 2 $\frac{3}{8}$ in., Length: 2 $\frac{1}{8}$ in.
CABLE: 18 ft. single conductor, shielded, synthetic rubber-jacketed
NET WEIGHT: 8 oz.
STAND COUPLER: $\frac{5}{8}$ in. -27 thread
OPTIONAL ACCESSORIES: Electro-Voice Model 423 A microphone stand.

Nondirectional Lavalier Crystal Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 924 or equivalent. The microphone shall be a pressure, crystal type, with uniform frequency response from 60 to 8000 cps. The microphone shall be nondirectional. The microphone shall have a high impedance output that shall operate into a standard grid resistance of from .5 to 2 megohms. The high-impedance output level shall be -60 db. with 0 db. equalling 1 volt/dyne/cm². The EIA sensitivity rating shall be -160 db.

The case shall be of high-pressure die-cast zinc with a satin chrome finish. The microphone shall have a maximum net weight of 10 oz. including cable. An 18' single-conductor shielded synthetic rubber jacketed cable shall be provided on the microphone. A neck cord and clip assembly shall be provided.

Specifications

FREQUENCY RESPONSE: 60 to 8000 cps.
IMPEDANCE: High impedance
OUTPUT LEVEL: -60 db. (0 db. = 1 volt/dyne/cm²); EIA sensitivity rating, -160 db.
DIRECTIONAL CHARACTERISTICS: Nondirectional
CASE: Pressure die cast
FINISH: Satin chromium
ACCESSORIES INCLUDED: Neck Cord and Clip Assembly
DIMENSIONS: Diameter: 1 $\frac{1}{2}$ in. Length: 3 $\frac{1}{2}$ in.
NET WEIGHT: 10 oz. including cable
CABLE: 18 ft., single-conductor, shielded, rubber jacketed

727SR Nondirectional Ceramic Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 727(SR) or equivalent. The microphone shall be a pressure, ceramic type with a uniform frequency response from 60 to 8000 cps. The microphone shall be nondirectional becoming slightly directional at high frequencies. The microphone shall have a high-impedance output. The high-impedance output level shall be -55 db. with 0 db. equalling 1 volt/dyne/cm². The EIA sensitivity rating shall be -155 db. The case shall have a high-pressure diecast zinc front with plastic back. The microphone shall have a maximum net weight of 14 oz. including cable. An 8 $\frac{1}{2}$ ' single-conductor, shielded cable shall be provided.

(When Model 727SR is required, substitute the following for the last sentence in the specifications.)

An 8 $\frac{1}{2}$ ' three conductor cable (one shielded) plus a leaf type switch that removes short and closes relay circuit shall be provided.

Specifications

FREQUENCY RESPONSE: 60 to 8000 cps.
IMPEDANCE: High impedance.
OUTPUT LEVEL: -55 db. (0 db. = 1 volt/dyne/cm²); EIA sensitivity rating, -155 db.
DIRECTIONAL CHARACTERISTIC: Essentially nondirectional.
ON-OFF SWITCH: (727SR only) Leaf-type switch removes short circuit in "ON" position and closes relay circuit.
CASE: Pressure diecast front and plastic back.
FINISH: Metalustre grey front and medium grey back.
DIMENSIONS: Width: 1 $\frac{1}{2}$ inches, Depth: 1 $\frac{3}{8}$ inches, Length: 7 $\frac{3}{4}$ inches
NET WEIGHT: 14 ounces including cable
CABLE: 727: 8 $\frac{1}{2}$ ' single-conductor shielded. 727SR: 8 $\frac{1}{2}$ ' three conductor (one shielded).
ACCESSORIES INCLUDED: Desk stand and $\frac{5}{8}$ " -27 stand adapter.

Electro-Voice®

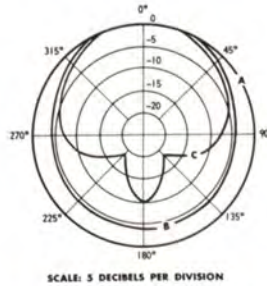
Model 715 and 715S



Model 715
ILLUSTRATED ON
MODEL 415 STAND
List \$13.00

Model 715S
List \$15.00

An all purpose microphone of modest cost, the Model 715 is ideal for use in conference rooms, for paging and call systems and home tape recordings. It uses an improved ceramic element for smooth response and has sufficient output for any modern amplifier. The sturdy diecast case protects the 715 from rough handling, and the ceramic element is unaffected by extremes of temperature and humidity. The 715 can be mounted on a floor or desk stand or hand held. The 715 and 715S are identical but the 715S has a press-to-talk SPST switch with a latching "on" position for continuous operation.



A—500 cps.
B—1,500 cps.
C—4,000 cps.

Polar Pattern

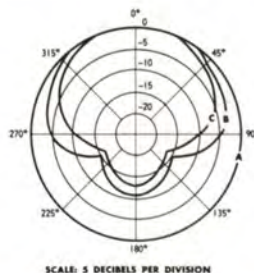
SCALE: 5 DECIBELS PER DIVISION



Model 718
List \$12.00

Model 718

The attractive styling of the Model 718 makes it an ideal replacement microphone for home type recorders or as a utility microphone in low cost public address applications. Designed for hand-held or table use, the 718 comes complete with a 5' cable and molded-on phono plug plus phone plug adapter. It is unaffected by high heat or humidity, and provides sufficient sensitivity for any modern amplifier input.



A—1,000 cps.
B—2,000 cps.
C—5,000 cps.

Polar Pattern

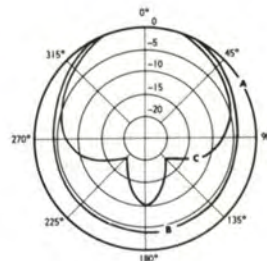
SCALE: 5 DECIBELS PER DIVISION



Model 712
List \$7.50

Model 712

This small, lightweight ceramic microphone is popular for home tape recording, amateur radio and P.A. systems where minimum cost and good quality must be maintained. Designed primarily for hand-held use, the attractive Styron case is easy to handle and very rugged.



SCALE: 5 DECIBELS PER DIVISION
A—500 cps.
B—1,500 cps.
C—4,000 cps.

Polar Pattern

Nondirectional Ceramic Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 715(S) or equivalent. The microphone shall be a pressure, ceramic type with a uniform frequency response from 60 to 7000 cps. The microphone shall be nondirectional becoming slightly directional at high frequencies. The microphone shall have a high-impedance output. The high-impedance output level shall be -55 db, with 0 db, equaling 1 volt/dyne/cm². The EIA Sensitivity rating shall be -155 db.

The case shall be of high-pressure diecast zinc with Metalustre grey finish. The microphone shall have a maximum net weight of 6 oz, including cable. A 5-ft. single-conductor shielded cable shall be provided.

(When Model 715S is required, add the following sentence to the Architects' and Engineers' Specifications.)

The Model 715S microphone or equivalent shall have an OFF-ON switch utilizing a leaf-type switch that short circuits the microphone output in the "OFF" position. It may be latched in the "ON" position for continuous operation.

Specifications

FREQUENCY RESPONSE: 60 to 7000 cps.

DIRECTIONAL CHARACTERISTICS: Nondirectional becoming directional with rise in frequency

ON-OFF SWITCH: (715S only) Push-to-talk switch shorts microphone output in "Off" position and may be latched in "On" position

IMPEDANCE: High impedance

OUTPUT LEVEL: -55 db. (0 db. = 1 volt/dyne/cm²). EIA sensitivity rating -155 db.

CASE: Pressure diecast zinc. AC-DC insulated

FINISH: Metalustre grey

DIMENSIONS: 3" high x 2³/₁₆" wide x 1" deep

NET WEIGHT: 6 oz.

CABLE: 5-ft. single-conductor, shielded

STAND COUPLER: 5/8" - 27 thread adapter provided

OPTIONAL ACCESSORIES: Model 415 Desk Stand

Nondirectional Ceramic Microphone

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 718 or equivalent. It shall be a pressure, ceramic type with a frequency response range of 60 to 6000 cps. The microphone shall be nondirectional becoming directional at high frequencies. The output shall be high impedance with an output level of -55 db. (0 db. = 1 volt/dyne/cm²). The EIA Sensitivity Rating shall be -155 db.

The case shall have a pressure die cast front and plastic back and shall be two-tone gray. The net weight shall be 8 oz. A 5-ft. cable with attached phono plug plus a phone plug adapter shall be provided.

Specifications

FREQUENCY RESPONSE: 60 to 6000 cps.

DIRECTIONAL CHARACTERISTICS: Nondirectional becoming directional with rise in frequency

IMPEDANCE: High impedance

OUTPUT LEVEL: -55 db. (0 db. = 1 volt/dyne/cm²) EIA Sensitivity rating -155 db.

CASE: Plastic and diecast zinc

FINISH: Two-tone gray

DIMENSIONS: 3³/₁₆" high x 1¹³/₁₆" wide x 1³/₄" deep

NET WEIGHT: 8 oz.

CABLE: 5-ft. single conductor, shielded with molded phone plug plus phone plug adapter

Nondirectional Ceramic Microphone

Architects' and Engineers' Specifications

The microphone shall be the Electro-Voice Model 712 or equivalent. It shall be a pressure, ceramic type with response from 70 to 7000 cps. The microphone shall be nondirectional becoming directional at high frequencies. The output shall be high impedance and the output level -55 db. (0 db. = 1 volt/dyne/cm²). The EIA Sensitivity rating shall be -155 db.

The case shall be gray Styron plastic and a 5-ft. single conductor shielded cable shall be provided. The net weight shall be 4 oz.

Specifications

FREQUENCY RESPONSE: 70 to 7000 cps.

DIRECTIONAL CHARACTERISTICS: Nondirectional becoming directional at high frequencies

IMPEDANCE: High Impedance

OUTPUT LEVEL: -55 db. (0 db. = 1 volt/dyne/cm²) EIA Sensitivity rating -155 db.

CASE: Gray Styron plastic

DIMENSIONS: 2¹/₄" wide x 1³/₈" deep x 3" high

NET WEIGHT: 4 oz. with cable

CABLE: 5-ft. single conductor, shielded



Commercial Airplanes



Trains



Ships



Skating Rinks



Auto and Motorboat Races*



Model 715SR
List \$17.50

MODEL 715 SR CERAMIC MOBILE MICROPHONE

Similar to the Model 715 described on page 18, the 715SR is specially designed to fulfill the rugged requirements of mobile applications at lowest possible cost. The case of pressure-cast zinc withstands the roughest handling, and the ceramic element is unaffected by extremes of humidity or temperature. The SPST switch is designed for relay operation. A handy hang-up bracket is included. A 5-ft. two conductor cable with one conductor shielded is provided. Response 60 to 7000 cps. Nondirectional. Output -55 db. at high impedance. Net weight 8 oz.



Model 600D
List \$47.50

Model 600 D Dynamic Mobile Microphone

Lightweight, hand-held and extra rugged, the 600D is designed for high articulation speech transmission under average noise conditions. Used indoors or outdoors, for mobile public address, police and marine services, industrial paging, etc. Response 100 to 7000 cps nondirectional. Output, -55 db. DPDT press-to-talk switch shorts output and can be used for relay control. Acoustalloy diaphragm. Size: 2" x 2 3/8" x 4". Impedance: 50 ohms or 250 ohms balanced to ground or Hi-Z. (Specify when ordering). 6-ft. coiled cord. Output conductors shielded (Hi-Z only) plus two unshielded conductors. Panel mounting bracket included. Net weight less cable, 8 oz.



MODEL 622 SKK
List \$78.00

MODEL 622 SKK DYNAMIC HANDSET

A dynamic, nondirectional handset, the Model 622 SKK meets the most rigid requirements of industrial paging, intercom and communication service. A rugged, shock-resistant bakelite case makes the Model 622 SKK ideal for mobile communication and outdoor use. Microphone response: 100 to 5,000 cps; output level: -55 db. (0 db. equals 1 mw/10 dynes/cm²). EIA Sensitivity Rating -147 db. Impedance: 250 ohms. Magnetic Receiver Response: 200 - 4000 cps. Impedance: 150 ohms. Non-Shorting switch controls microphone and relay. 6 ft. 5 conductor coiled cord (unshielded). Size: 8 1/2" long x 2 5/8" wide x 3" deep.



Model 622 TRSKK
List \$94.50

Model 622 TRSKK Transistor Handset

Same as above except includes a compact, two stage transistor amplifier built into the handset case. Designed to directly replace carbon handsets without changing circuitry. The 622 TRSKK features a dynamic element with reduced distortion, smoother response and high reliability for more dependable voice communications. The amplifier is stabilized to operate from +140°F down to freezing temperatures. Impedance: 150 ohms. Output level: -22 db. EIA sensitivity rating -117 db. Net Weight: 1 lb., 6 oz.



Model 600TR
List \$82.50

Model 600TR Transistor Mobile Microphone

Same as 600D plus a compact two-stage transistor amplifier built into the microphone case. Will directly replace carbon microphones with no changes in associated circuits. The dynamic element reduces distortion, gives smoother response and better articulation plus high reliability for dependable voice communications. The amplifier is stabilized for operation from freezing temperature up to 140°F. Impedance: 150 ohms (balanced to ground). Output level: -23 db. EIA Sensitivity: -117 db. Nondirectional. 4 conductor non-shielded coiled cord extends 6 feet. Panel mounting bracket included. Net weight 13 oz. FAA type certificate No. 3R42-1.

Model 805 Crystal Contact Microphone



List \$20.00

The Model 805 contact microphone is designed for guitar, banjo or other string instruments that have a sounding board. This small contact microphone reproduces electrically the response of such musical instruments. Uses high-impedance, sealed crystal. Chromium finish. It is supplied with a fifteen foot single conductor shielded cable and a spring clip for convenient mounting. It may be attached or removed quickly without the use of tools.



Model 210KK
List \$35.00

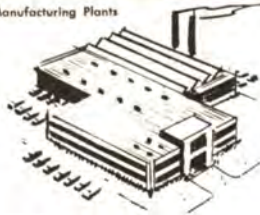
Model 210 KK Carbon Mobile Microphone

This rugged carbon microphone is excellent for voice communications under average noise conditions. Response is carefully designed for maximum intelligibility so essential to police, fire and emergency service applications. Held in the hand, with a push-button control, it can be put to effective use indoors and outdoors. Frequency response: 100 to 4,000 cps. Output, -50 db. EIA Sensitivity: -122 db. DPDT press-to-talk switch can be used for relay control. Four conductor coiled cord, non-shielded extends to 6 ft. Panel mounting bracket included. Size: 3 1/8 in., 2 3/8 in., 2 in. Weight: 11 ounces.

Electro-Voice® Differential Microphones

have a noise-cancelling pick-up pattern. Sound waves originating from a point more than a few inches away from the microphone enter both openings in the case at the same time and cancel each other. When the sound source is close to the microphone, sound waves do not cancel, resulting in clear speech and reduced noise. Differential microphones are ideal for use in areas with extremely high background noise.

Manufacturing Plants



Model
625 SKK
List
\$85.00

MODEL 625 SKK DYNAMIC DIFFERENTIAL HANDSET

This handset with noise cancelling microphone is designed for use where background noise is at a high level. It enables the user to speak in a normal voice. Other characteristics and specifications are similar to the Model 622 SKK. Supplied with 6 foot 5-conductor, unshielded coiled cord. DPST non-shorting switch will operate relay or other remote control in addition to turning on microphone. Press-to-talk button. Size 8½" x 3" x 2⅝". Net weight: 1 lb. 6 oz., including cable.

MODEL 625TRSCK HANDSET

Same as above except includes two stage built-in transistor amplifier. Will directly replace carbon handsets without change of circuitry. Dynamic microphone reduces distortion, smooths response and means high reliability for more dependable voice communications. Stabilized amplifier operates from + 140°F. to freezing temperatures. Impedance: 150 ohms. Output level: -22 db. EIA sensitivity rating: -117 db. Net weight, 1 lb. 6 oz. FAA type certificate No. 3R42-2.

Model
625 TRSCK
List
\$122.50



Model 602
List \$57.50

Model 602 Dynamic Differential Mobile Microphone

While similar to the Model 600D, the Model 602 is specially designed for close talking noise-cancelling applications where high articulation is vital. Especially suitable for marine, industrial and emergency communications, it utilizes the exclusive E-V Differential design. Frequency response is substantially flat from 100 to 7,000 cps. Rugged construction plus Acoustalloy diaphragm reduces maintenance problems. Output -55 db. at ¼". DPDT press-to-talk switch can be used for relay control. Specify 50, 250 ohms or Hi-Z impedance when ordering. Six-foot coiled cord. Output conductors shielded (Hi-Z only) plus 2 unshielded conductors provided plus panel mounting bracket.



Model
606
List
\$52.50

Model 606 Dynamic Differential Microphone

This close talking pressure-gradient microphone provides unexcelled noise-cancelling characteristics for industrial paging, sports events or anywhere where noise levels are high. It has excellent intelligibility, high level and pleasing appearance. Acoustalloy diaphragm. Microphone response 100 to 5,000 cps. Output, (at ¼") -55 db. Head at 22° fixed tilt. ⅝" -27 thread. Built in MC-1 connector. Satin chromium. 2" x 3¼" x 2½" including stud. Impedance: 150 ohms or Hi-Z. (Specify when ordering). Low impedances not balanced to ground. Eighteen foot shielded cable. Net weight 12 oz.



Model 602 TR
List \$93.00

Model 602 TR Transistor Microphone

Similar to the 600 TR but specially designed for close talking, noise cancelling applications, the 602TR is ideal in high ambient noise areas. It is a dynamic type, differential microphone for hand-held use incorporating the same built-in transistor amplifier as used in the 600TR. Speech is clear, crisp and distinct with much lower interfering noise. May be used to replace carbon microphone without change in circuitry. Net weight less cable, 13 ounces.



Model 205 KK
List \$45.00

Model 205 KK Carbon Differential Mobile Microphone

The Model 205KK is a single-button hand-held carbon differential microphone designed for maximum intelligibility under extreme noise. Articulation is 97% under quiet conditions and 88% under 115 db. ambient noise. Blast proof, shock-resistant. Output at ¼" - 50 db. Response from 100 to 4000 cps. Black phenolic case. DPDT press-to-talk switch can be used for relay control. Four conductor, unshielded coiled cord, extends to 6 ft. Size 2¼" x 2¼" x 4". Net weight less cable, 8 ounces.

MODEL 205 KKP LIST \$49.75

Same as 205KK but with PJ-068 plug attached.

MODEL 205 STCKK LIST \$56.50

FAA Type Approved certificate No. 1040 for commercial aircraft use. Specifications similar to Model 205KK.

MODEL 205 STCKKP LIST \$61.25

Same as 205 STCKK but with PJ-068 plug installed. FAA Type Approved certificate No. 1040.

Electro-Voice[®] Microphone Accessories

Model 418 and 419 Microphone Stands

These desk stands are styled to give a modern, pleasing appearance while supplying an appropriate base to hold the microphone to prevent tilting and toppling over.

Material: cast iron. Finish: gray. Dimensions: height, 2¹/₁₆ in.; width, 4⁷/₁₆ in.; length, 5¹/₂ in. Weight, 2 lb. 2 oz.

Model 418 . . . List \$10.00

The Model 418 is to be used with microphones having small-type studs such as E-V Models 611, 623, 630, 635, 636, 911 and 951.

Model 418S . . . List \$15.00

Same as above but includes DPDT lever type switch.

Model 419 . . . List \$10.00

The Model 419 is to be used with microphones having large-type studs such as E-V Models 644, 654, 664 and 665.

Model 419S . . . List \$15.00

Same as above but includes DPDT lever type switch.

Model 423-A Desk Stand . . . List \$5.00

The Model 423-A desk stand has a sturdy, smartly styled, round diecast base which rests firmly on rubber base buttons. Stand threads, 5/8 in. -27 thread. Material: Base, diecast zinc; Risers, steel tubing. Finish: satin chromium. Dimensions: Base height, 1 in.; diameter, 5 3/8 in. Stem Riser: choice of 3 in. or 5 in. Weight, 1 lb.

Model 428 Touch-To-Talk Stand . . . List \$17.50

The Electro-Voice microphone stand, Model 428 is designed for any standard microphone mount which has 5/8 in. -27 threads. Switch is a blade type, single-pole double-throw. By removing the aluminum shield, the switch terminals are readily accessible for soldering. Finished in satin chromium; gray plastic switch lever with locking button. Material: diecast zinc and plastic. Dimensions: height, 7 in.; base diameter, 5 1/8 in. Weight, 1 3/4 lb.

Model 425 Deluxe Floor Stand . . . List \$30.00

The Model 425 DeLuxe Floor Stand has a modern diecast base. A button at the top gives one-hand height control from 37 to 66 inches. Locks automatically on release. The shaft can be rotated without adjusting devices. Locking-type adjustable legs permit the stand to be placed flush against the wall. Stand threads, 5/8 -27 thread. Material: Base, diecast zinc; Riser, steel tubing. Finish: satin chromium. Dimensions: Base, three-leg spread 17 in., Rise, from 37 in. to 66 in. Weight, 7 1/2 lb.

Model 448 Swivel Boom Mount . . . List \$24.00

The Model 448 Microphone Desk Boom Mount is designed primarily for the Model 648 microphone, but may be used with any microphone having 5/8 in. -27 thread. (Microphones with 1-inch diameter may be mounted using Model 300 Clamp.) This unit is used in applications where desk mounting is desired, and will hold the microphone 11 7/8 inches off the mounting surface. The shaft extends 4 inches below the mounting surface and has an integral swivel allowing the microphone to be swung out of the way when desired. The base is permanently se-

cured by screws in the swivel flange with the MC-2M cable connector extending through the mounting surface allowing cable to be attached with ease. Material: steel. Finish: satin chromium. Cable connector: Amphenol MC-2M. Dimensions: diameter, 5/8 in.; length, 20 9/16 in. with 62° bend 4 9/16 in. from base. Weight, 1 lb. 5 oz.

345 Shock Mount . . . List \$15.00

This dual-type, external shock mount prevents reproduction of external shocks and stand vibrations. The Model 345 has a 5/8 in. -27 pipe thread adapter and can be easily attached or removed. Note: Microphone must be centrally balanced or the shock mount will not function properly. Material: steel and diecast zinc. Finish: satin chromium. Dimensions: diameter, 1 1/2 in.; length, 4 7/8 in. Weight, 10 oz. Accessories, 2 13/16 in. extension adapter.

Model 300 Detachable Microphone Clamp . . . List \$10.00

This lightweight adapter fits 647 or any cylindrical microphone with a 1-inch case diameter and provides positive means to mount the microphone on a stand. Easily installed without tools with a finger-operated clamp. Rubber insert prevents slippage on microphone. 1/2-inch pipe thread with adapter for 5/8 in. -27 thread supplied. Finish: TV gray and chromium. Dimensions: diameter, 1 1/8 in.; length, 4 9/16 in. Weight, 4 oz.

Model 335 Blast Filter . . . List \$5.50

This blast filter has an acoustically treated, scientifically curved grille which minimizes wind and breath blasts yet does not affect frequency response. Specifically designed for the E-V Models 635, 630 and 605 microphones. Material: copper and zinc. Finish: satin chromium. Dimensions: diameter, 2 5/16 in.; depth, 1 3/4 in. Weight: 2 oz.

Model 502A Matching Transformer . . . List \$17.50

The Model 502A is designed for use in series with a microphone line. The transformer windings have low distributed capacity and are amply shielded against inductive hum. Designed to match 50, 150, 250, and 500 ohm microphones to Hi-Z amplifier input. Output impedance, approximately 40,000 ohms to Hi-Z. Broadcast fidelity with response of 40-20,000 cps ± 1 db. Cable: single-conductor, shielded, 2 1/2 ft. long. Shielding: magnetic and electrostatic. Dimensions: diameter, 2 in.; length, 2 7/8 in. Weight, 1 lb.

Model 415 Desk Stand . . . List \$1.75

Sleek, attractive desk stand designed for use with E-V type 615 microphones. Material: die cast zinc. Finish: satin chromium. Dimensions: Length, 2 5/8 in.; width, 2 3/4 in.; height, 1 in. Weight, 4 oz.

Model 416 Stand . . . List \$5.00

This small black moulded rubber stand may be used with either the Model 646 or Model 647 microphones. Designed for use where permanent installation is needed or desired. Material: rubber. Dimensions: diameter, 3 3/8 in.; height, 1 in. Weight, 2 oz.





Electro-Voice®

This is Electro-Voice, where skilled engineers and artisans use the finest of laboratory and production equipment to produce a complete range of broadcast-quality microphones for public address and general purpose use. This is just one of four Electro-Voice plants devoted to the manufacture of highest quality electro-acoustic products. Also available from Electro-Voice are phonograph cartridges and needles, high fidelity loudspeakers and cabinetry, tachometers and marine products, laboratory instruments and radio amateur and Citizen's band radio devices.



Warranty

All Electro-Voice products are guaranteed against defects in material and workmanship. Your Electro-Voice distributor or field representative will assist in the return of microphones to the factory for adjustment, repair, or replacement. Returns to the factory may be made directly by the user for factory service . . . no authorization is required for such returns. A note describing the difficulty should accompany the unit and the cable should also be returned if possible. If requested, an estimate of repair charges will be submitted before repairs are made.

E-V microphone model numbers — follow the accompanying code for ease in recognizing types.

Model No.	Code
Series	Type
200	CARBON
300	ACCESSORIES
400	STANDS
500	TRANSFORMERS
600	DYNAMIC
700	CERAMIC
800	CONTACT
900	CRYSTAL

Calibration of Microphones

A laboratory calibration of frequency response on axis may be obtained for any Electro-Voice microphone by returning the unit to the factory. On directional microphones such as the 664, the curve run at 180° off-axis will also be supplied. A charge of \$10.00 is made for this service.

The Complete ELECTRO-VOICE line of Professional Microphones are described in Catalog No. 133

Individual Engineering Data Sheets are available for all Electro-Voice Commercial Sound Products.

INDEX AND GUIDE TO SELECTION

■—Good Quality, lowest cost ●—Better Quality, medium cost

APPLICATION	DIRECTIONAL CHARACTERISTICS MODEL NUMBERS CATALOG PAGE NOS.	SOUND SPOT	CARDIOID				NONDIRECTIONAL DYNAMIC							
		644	664	951	729	636	647	623	648	630	611	624	605	615
		3	4-5	4-5	6	7	8-9	8-9	10-11	10-11	10-11	12-13	12-13	12-13
PUBLIC ADDRESS														
GENERAL—Poor Acoustics		★	★	●	■									
—Good Acoustics		★	★	●	■	★	★	★	★	★	●		●	■
OUTDOOR—High Noise		★	★	●	■									
—Low Noise		★	★	●	■	★	★	★		★	●		●	■
STAGE—Large Area		★	★	●	■	★	★	★	★	★	●	●		
—Long Distance		★	★											
PULPIT OR ROSTRUM		★	★	●	■	★	★	★	★	★	●		●	■
LAVALIER USE							★					●		
PAGING OR ANNOUNCING		★	★	●	■	★	★	★	★	★	●		●	■
MOBILE OR HAND HELD					■		★							■
EXTREMELY HIGH NOISE														
RECORDING														
SEMI-PROFESSIONAL														
Poor Acoustics		★	★	●	■									
Good Acoustics		★	★	●		★	★	★	★	★		●		
HOME TAPE RECORDING			★	●	■						●	●	●	■
COMMUNICATIONS														
INDUSTRIAL														
Fixed		★	★		■	★	★	★	★	★	●		●	■
Mobile					■									
AIRCRAFT														
Ground Station			★		■	★	★	★	★	★	●		●	■
Airborne														
MARINE AMATEUR RADIO														
Fixed			★	●	■	★	★	★	★	★	●		●	■
Mobile														
SPECIAL APPLICATIONS														
SOUND LEVEL MEASUREMENT						★				★				
MUSICAL INSTRUMENT (Contact)														
AVAILABLE WITH SWITCH FOR HAND-HELD USE					X									
AVAILABLE IN GOLD FINISH		X				X								

ALL E-V MICROPHONES EXCEPT CRYSTALS
ARE ELIGIBLE FOR FCDA PURCHASES

OF ELECTRO-VOICE MICROPHONES

★—Highest Quality

NONDIRECTIONAL CRYSTAL OR CERAMIC								SPECIAL PURPOSE							DIFFERENTIAL							
911	926	920	924	727	715	718	712	715SR	622	622TR	600D	600TR	805	210KK	625	625TR	606	602	602TR	205	205STC	
14-15	14-15	16-17	16-17	16-17	18-19	18-19	18-19	20	20	20	20	20	20	20	21	21	21	21	21	21	21	
●	●	●		■	■	■											★					
				■	■	■																
●	●	●	●																			
●	●	●		■	■	■																
●	●	●	●	■	■	■	■	■														
				■	■	■											★					
●	●	●	●	■	■	■	■															
				■	■			■									★					
				■	■			■	★	★	★	★		●	★	★		★	★	●		
				■	■			■	★	★	★	★		●	★	★	★	★	★	●		
									★	★	★	★		●	★	★		★	★	●	●	
●	●	●		■	■	■	■	■									★					
								■	★	★	★	★		●	★	★		★	★	●		
		●											■									
				X	X			X	X	X	X	X		X	X	X		X	X	X	X	

E-V professional series microphones are ideal for many of the above applications where the highest standards of quality and performance must be met. They are fully described in professional microphone catalog number 133.

Electro-Voice® Speakers for Commercial Sound

A PRODUCT OF CREATIVE ENGINEERING

The same engineering leadership which has made Electro-Voice microphones and high fidelity products outstanding has now been applied to the field of public address speakers.

Research into basic audio techniques plus a re-examination of the requirements of better commercial sound has resulted in a new line of speakers for a wide variety of critical applications.

The problems of restricted area and wide angle coverage have been solved in new, more effective ways. Distortion has been lowered while frequency response has been extended. Excessively "peaked" response has been eliminated to reduce "feedback" problems and improve the intelligibility of speech and the pleasantness of music. Components have been designed for maximum flexibility as well as ease of installation or service.

GUIDE TO SELECTION OF ELECTRO-VOICE SPEAKERS

This guide can assist you in choosing the Electro-Voice speaker best suited to your application. The circled "Best Value" recommendation is the speaker normally found in each specific type of installation. Since requirements vary, this can only be a general guide — specific help is available from your E-V sound specialist or directly from our Commercial Sound Division.

Note that two basic categories are used . . . "Voice" and "Voice

and Music." When musical reproduction is only incidental, speakers in the "Voice" category can sometimes be used. Bass response of these speakers is limited. Sub categories include narrow, medium and wide-angle speakers or horns. Narrow angle units are preferred when coverage must be restricted to small areas or when the loudspeaker must be located far from the intended listener. Refer to individual speaker listings for details on the performance of each type.

APPLICATION	VOICE		VOICE AND MUSIC				
	Narrow Angle	Wide Angle	Narrow Angle	Medium Angle		Wide Angle	
	844	847	AC100	AR150	FR150	FC100/848	Musicaster
SCHOOLS							
Auditorium						★	⊗
Gymnasium				X	X	⊗	★
Swimming Pool				X		⊗	
Football Stadium			⊗	X	X	★	
Athletic Field			★	X	X	⊗	
INDUSTRIAL							
Factory—Moderate Noise	⊗	★	★	X	X	⊗	X
—High Noise	⊗	★	⊗	★	X	★	
Office	X	⊗		X	X	★	★
Warehouse	X	⊗	★	⊗	X	★	X
Transportation Terminals	X	⊗	★	X	X	⊗	★
Parking Areas			★	X	X	⊗	X
Industrial Yards	X	X	⊗	⊗	X	★	
SPORTS							
Roller Rinks					X	★	⊗
Ice Rinks			★			⊗	★
Grandstands and Race Tracks			⊗	X	X	★	★
Regattas			⊗	X	X	★	
Arenas and Coliseums			★	X	X	⊗	⊗
GENERAL							
Church				X	X	★	⊗
Church Tower Chimes			★	X	X	⊗	★
Mortuary						★	⊗
Garage	⊗	★		★	★		
Drive-In				X	X	★	⊗
Large Ballroom			X			★	⊗
Meeting Room	X	X				⊗	★
Intercom—Large Area*	⊗	⊗	★	X	X	★	
—Small Area*	⊗	★		X	X	★	
Restuarant		X				★	⊗
Tent Theaters						★	⊗
Band Shells						★	⊗
Carnivals	⊗	★		⊗	X		
Fairgrounds			⊗	X	X	⊗	★
Car-Top Mounting					⊗	⊗	
Police & Emergency Vehicles	⊗	★					
Street Dances			★	X	X	★	⊗

30, 40 and 50 watt drivers are available for FC100, AC100, FR150 and AR150 Horns. Choice will depend on maximum loudness and efficiency desired.

*45 ohm versions of recommended speakers available for use on 45-50 ohm intercom lines as speaker/microphone.

KEY TO RECOMMENDATIONS—⊗ ⊗ Best Value ★ Highest Quality X Economy

If You Didn't Get This From My Site,
Then It Was Stolen From...

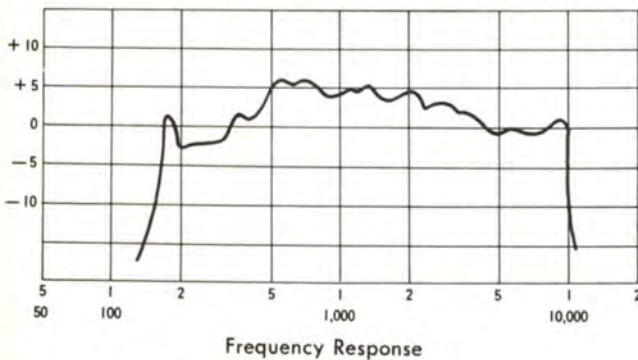
www.SteamPoweredRadio.Com

Electro-Voice® Complete Projectors for Voice and Music



**Model 848
Compound
Diffraction Projector**
List \$82.50

Model 848-45
List \$84.00



This wide-range, integrated horn and driver system uses a single driver unit with two coaxially mounted high and low frequency horns coupled to opposite sides of a single diaphragm. The bell of the 848, fabricated of fiberglass and polyester resin, provides an extremely strong, lightweight housing. It is basically a combination of the FC100 horn plus a 30 watt compound driver.

The 848 provides better than twice the polar distribution of ordinary re-entrant or multi-cellular reproducers of comparable size, with an increase in efficiency of three db.

Both horns of the 848 are designed to spread sound in the same manner that optical diffraction slits spread light. Therefore, the widest polar distribution in the horizontal plane is obtained when the long dimension of each horn is vertical. The most concentrated horizontal polar pattern is obtained with the long dimension of each horn horizontal. Where additional concentration above 1000 cps is desired, the HC1000 horn can be easily substituted for the small diffraction horn.

Specifications

FREQUENCY RESPONSE: 150 to 10,000 cps

SOUND PRESSURE LEVEL: 117 db. (at 4' with 30 watts input between 750 and 1250 cps)

EIA PRESSURE RATING: 52 db.

POWER HANDLING CAPACITY:

Program Material: 30 watts

Peak: 60 watts

NOMINAL IMPEDANCE: 16 ohms (for 45 ohms specify Model 848 - 45)

ACOUSTICAL CROSSOVER: 1000 cps

LOW-FREQUENCY HORN TAPER: 100 cycles

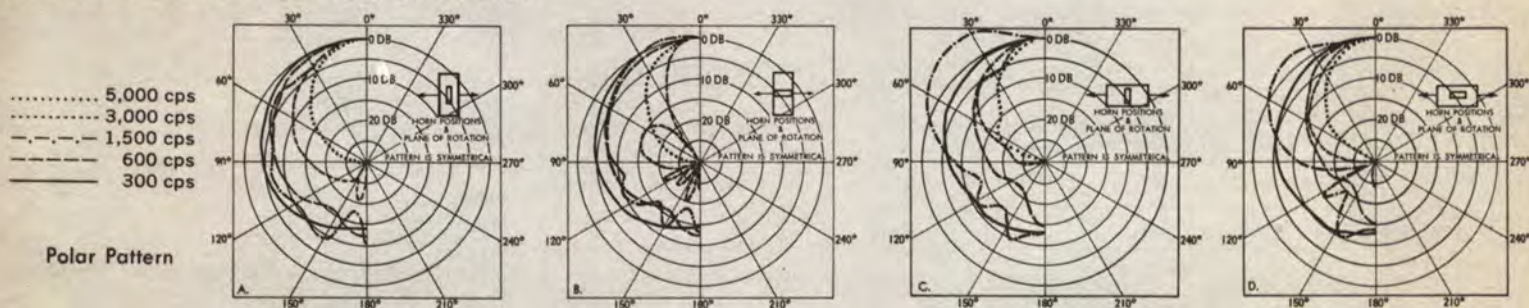
DISPERSION: 90° (horns mounted horizontally)
120° (horns mounted vertically)

MOUNTING: Universal "U" Bracket

SIZE: 10½ inches wide, 20½ inches high, 20 inches deep

WEIGHT: 13½ pounds net, 15 pounds shipping

FOUR POLAR PATTERNS AND HORN POSITIONS FOR EACH



Model RE 35 Range Extender

Range Extender mounts on 848 or FC-100 with DC30A to improve high frequency response and dispersion. 30 watt capacity. Response 3,500 — 18,000 cps. 16 ohms impedance. Complete with cross-over, mounting bracket. Needs only a screw driver for installation. Shipping weight 4½ pounds.

List
\$40.00

Model 879 Joining Kit

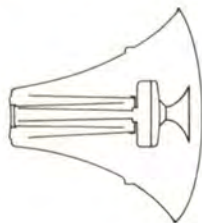
Use for joining two fiberglass horns (FC100, FR150, 848, 848LT) when "stacking" speakers in multiple arrays. Multiple arrays can increase bass response and control dispersion for more concentrated coverage when all speakers are directed to same area. Speakers can also be angled for wide area coverage. One joining kit required for each junction of two horns. Weight 1 pound.

List
\$2.75

Electro-Voice® Compound Horns ...Finest Sound at any Price



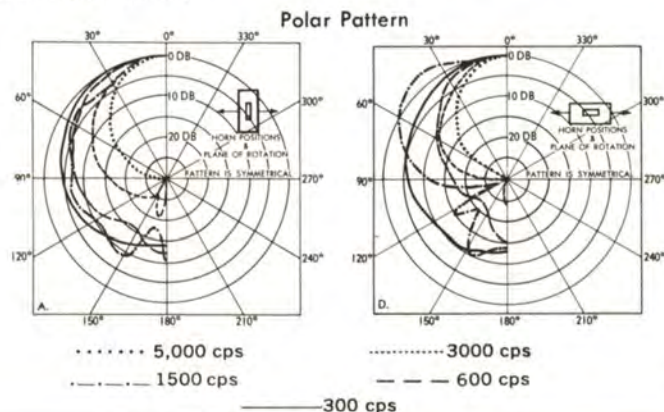
Model FC 100
List \$50.00



Large low frequency horn is connected to rear of driver. Small high frequency horn operates from front of driver. Each horn can be designed for best response without compromise.

Model FC 100 Compound Diffraction Horn

Exclusive E-V Compound Horns permit widest range at lowest distortion, plus complete directional control of both highs and lows. Identical to the horn sections of the famous CDP, the FC 100 Horn provides two diffraction horns to give uniform wide angle coverage at all frequencies. Each horn handles a specific portion of the range for smoothest response — less feedback. Flexible coverage control is offered by individual rotation of either horn or concentrating high frequency horn (HC 1000) can be substituted for small diffraction horn. Compound feature also reduces distortion for clearer speech, more pleasing music reproduction. Rugged outer fibreglas horn has color molded in for lasting beauty. Shipped complete with both diffraction horns, less driver. FC 100 requires E-V convertible driver.



Specifications

- LOW FREQUENCY HORN CUT-OFF: 100 cps
- TAPER: 100 cps
- AIR COLUMN LENGTH: 58"
- LOW FREQUENCY SOUND DISTRIBUTION: 90° x 120°
- HIGH FREQUENCY SOUND DISTRIBUTION: 90° x 120°. May be adjusted independently of low frequency horn.
- ACOUSTICAL CROSSOVER: 1000 cps
- MOUTH SIZE: 10½" x 20½"
- DEPTH, LESS DRIVER: 20"
- NET WEIGHT, LESS DRIVER: 10¾ pounds
- FINISH: Mesa Tan

For added directional control . . .



Model HC 1000
List \$10.00

Die cast concentrating horn replaces diffraction horn on Model FC 100 and converts to concentrated (30°) coverage above 1000 cps.



Model HD 1000
List Price \$6.00

Diffraction horn substitutes for concentrating horn on AC 100. Converts to wide angle (90° x 120°) coverage above 1000 cps.

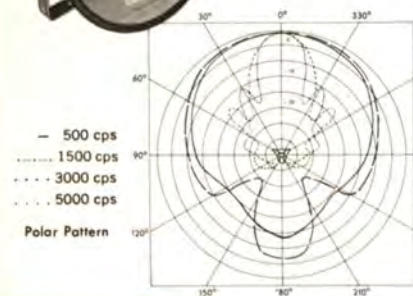
Model AC 100 Concentrating Compound Horn

List \$47.00

Has all the qualities and advantages of FC 100 except that it utilizes round horns for most concentrated coverage with greatest efficiency. Offers lowest distortion of voice and music available anywhere in a high efficiency public address horn. Compound horns mean no loss of highs for more effective noise penetration, longer reach and better articulation. Less amplifier power is required with AC 100. Shipped with both concentrating horns, less driver. AC 100 requires E-V convertible driver.

Specifications

- LOW-FREQUENCY HORN CUT-OFF: 100 cps
- TAPER: 100 cps
- AIR COLUMN LENGTH: 58"
- LOW FREQUENCY SOUND DISTRIBUTION: 80°
- HIGH FREQUENCY SOUND DISTRIBUTION: 30°
- ACOUSTICAL CROSSOVER: 1000 cps
- FINISH: Aluminum horn finished in tough Mesa tan baked enamel
- NET WEIGHT: 11 lbs. 6 ozs.



For 360° Applications Model RA 1 Radial Adapter List \$6.00

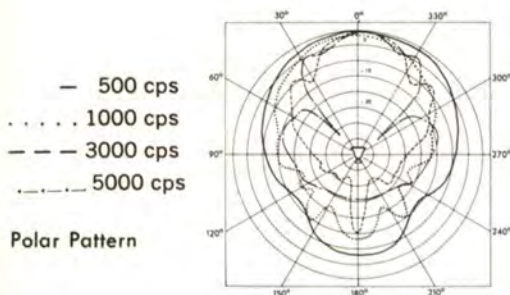


Convert any 848 projector or FC 100 horn for overhead mounting where 360° coverage is required. RA 1 eliminates "hot spot" below speaker without interfering with wide range response. No tools needed.

Electro-Voice® Reentrant Horns . . . Wide Range with Economy



Model AR 150
List \$34.00



Model AR 150 Ring Reflector Reentrant Horn

The Model AR 150 is a moderately priced horn featuring the exclusive new E-V ring reflector . . . the biggest improvement in reentrant horn design in 15 years. The dual ring reflector extends the useful high frequency range for greater volume, increased intelligibility and more natural sounding voice and music. Carefully designed exponential flare gives the AR 150 horn maximum penetration over wider area than conventional horns. Rubber damping ring eliminates resonances. Rugged spun aluminum bell, new aluminum die cast mounting plate plus precision one piece die cast reentrant tubes assure long lasting performance. Accepts E-V convertible drivers or any standard driver with 1 $\frac{3}{8}$ " — 18 thread. Finished in tough Mesa Tan baked enamel.

Specifications

LOW FREQUENCY CUT-OFF: 150 cps

TAPER RATE: 150 cps

AIR COLUMN LENGTH: 41 ins.

DISPERSION: 85°

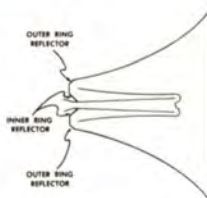
CONSTRUCTION: Spun Aluminum horn, one-piece die cast reentrant tubes, die cast mounting plate

MOUNTING: Steel "U" Bracket

FINISH: Mesa Tan Baked Enamel

SIZE: 21" diam. x 17" deep (less driver)

NET WEIGHT: 6 $\frac{1}{2}$ lbs.

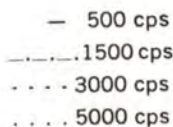


RING REFLECTOR PRINCIPLE

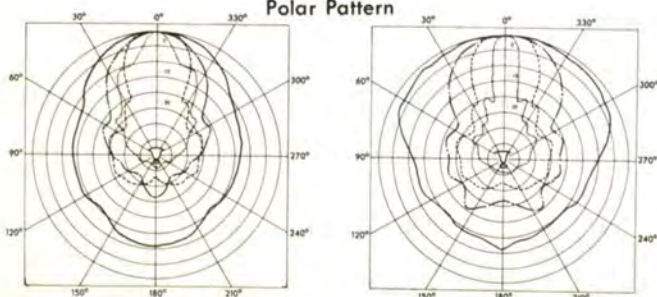
Conventional public address horns use smoothly rounded paths at both critical reentrant sections. This technique is satisfactory for small radius bends but only E-V uses the exclusive ring reflectors to increase output in the vital presence region by as much as 7 db. The result is clearer speech and better balanced music.



Model FR 150
List \$39.00



Polar Pattern



HORN HORIZONTAL

HORN VERTICAL

Model FR 150 Rectangular Reentrant Horn

A fine reentrant horn for car top installation or wherever a low silhouette is desired and where bass response cannot be sacrificed. The FR 150 stacks easily for multiple speaker installations. Where maximum economy is desired, this low cost medium angle horn provides good coverage and smooth response. Utilizes single E-V ring reflector. Rugged, long lasting fiberglass horn has Mesa Tan color molded in. Reentrant tubes are die cast for strength and precision. Adjustable mounting angle allows best coverage. Accepts E-V convertible drivers or any standard driver with 1 $\frac{3}{8}$ " — 18 thread.

Specifications

LOW FREQUENCY CUT-OFF: 150 cps

TAPER RATE: 150 cps

AIR COLUMN LENGTH: 45 ins.

HORIZONTAL DISPERSION:

Horn Vertical: 70°

Horn Horizontal: 100°

CONSTRUCTION: Molded fiberglass horn, die cast reentrant tubes and mounting plate

MOUNTING: Steel "U" Bracket (may be oriented vertically or horizontally)

FINISH: Mesa Tan Baked Enamel on metal parts, matching color molded into fiberglass horn

SIZE: (Less driver): 20 $\frac{1}{2}$ " high, 10 $\frac{1}{2}$ " wide, 21" deep

NET WEIGHT: 9 lbs. 8 ozs.

Convertible Drivers



Here for the first time are drivers that can be used interchangeably in either E-V compound horns or any reentrant horn. Used on either type of horn, the new Electro-Voice convertible drivers feature highest efficiency available. This increased efficiency plus increased power handling makes the 40 and 50 watt drivers uniquely useful where maximum power at minimum cost is essential. The high efficiency of all E-V convertible drivers is achieved without resorting to "peaked" response which may increase apparent loudness, but can also reduce intelligibility. Smooth response of these drivers insures most natural reproduction of voice and music for more satisfying quality with vastly reduced feedback problems and greatly increased tonal range. Double flux ceramic magnets provide long lasting high efficiency in entirely new low-loss magnetic circuits. Edgewise wound ribbon voice coils give 18% more energy than conventional round wire. The drivers are rugged and weatherproof; conversion to either reentrant or compound use can be made instantly in the field. Voice coils are also easily field replaceable, thus reducing maintenance to a minimum. E-V convertible drivers are available with 16 or 45 ohm voice coils or with built-in 70.7 volt line transformers.

E-V Drivers Give You These Basic Benefits



RELIABILITY

- Rugged Die Cast Housing
- Most Modern Design and Construction Techniques
- Weather Resistant Phenolic Diaphragm



EASE OF INSTALLATION

- Strain Relief for Neater Installation
- Convertible to Either Compound or Reentrant Horn



BETTER SOUND QUALITY

- Improved Loading Plug for Wider Range
- Reduced Feedback and Smooth Response From Ceramic Magnets
- Lower Distortion from Compound Design



HIGH EFFICIENCY

- Double Flux Ceramic Magnet
- Edgewise Wound Voice Coil
- Tailored Peak-free Response Curve

SPECIFICATIONS	16 OR 45 OHM DRIVERS			DRIVERS WITH 70.7 VOLT TRANSFORMERS		
	DC30A	DC40	DC50	DC30T	DC40T	DC50T
Frequency Responset†	150-10,000	140-11,000	140-11,000	150-10,000	140-11,000	140-11,000
Program Power Capacity	30	40	50	30	40	50
Sound Pressure Level†	FC100 Compound Horn 117 db.	120 db.	124 db.	117 db.	120 db.	124 db.
	AR150 Reentrant Horn 126 db.	129 db.	133 db.	126 db.	129 db.	133 db.
Voice Coil Impedance	16	16	16	16	16	16
Transformer Impedances, Ohms	.....	.....	.....	167, 333, 1000, 2000	125, 250, 500, 1000	100, 143, 200, 500
Transformer Power Taps, Watts	.....	.....	.....	30, 15, 5, 2½	40, 20, 10, 5	50, 35, 25, 10
Dimensions (overall)	5½" dia. 3" 1.	6¼" dia. 4¼" 1.	6¼" dia. 4¼" 1.	5½" dia. 5½" 1.	6¼" dia. 6" 1.	6¼" dia. 6" 1.
Net Weight	4¼ lbs.	6¼ lbs.	8 lbs.	5¼ lbs.	8¼ lbs.	9¼ lbs.
List Price	\$31.00	\$40.00	\$52.50	\$41.00	\$52.50	\$63.50
Same as above but with 45 ohm voice coil.	Model DC30A-45 \$32.50	Model DC40-45 \$41.50	Model DC50-45 \$54.00			

††Measured on-axis with FC100 horn.

†Measured at 4' on-axis with full rated power from 750-1250 cps.



DC30A



DC30T



DC40



DC40T



DC50



DC50T

Accessories for Electro-Voice Drivers

AD-1 Driver to horn adaptor. Allows use of E-V convertible driver on horns with 1½" -16 thread (W.E.-R.C.A.) for improved performance. Shipping weight 1 pound. List \$2.50.

AD-2 Horn to driver adaptor. Allows use of E-V reentrant horns with drivers having 1½" -16 thread (W.E.-R.C.A.) for improved performance. Shipping weight 1 pound. List \$3.00.

Diaphragm Replacement Kits

allow easy field maintenance or conversion of E-V Drivers.

DRIVER	8 OHM	16 OHM	45 OHM
828 or DC30 (Used on Model 848)	.....	8923	8427
DS30 (Used on Model 844)	8410	.....	8421
DC30A	.....	82087	8617
DC40	.....	82088	8618
DC50	.....	82089	8619
List Price	\$10.00	\$10.50	\$12.00

Replacement kits not available for DC30T, DC40T or DC50T.

Electro-Voice® Paging and Talk-Back Speakers



Model 847 CDP® Projector

- Wide Range
- Moderate Cost
- Low Distortion

This wide-range paging speaker uses a single driver unit with two coaxially mounted horns coupled to opposite sides of the single diaphragm. The bell of the 847, fabricated of fiberglass and polyester resin with the Mesa Tan color molded into the material, provides an extremely strong, weather-resistant light-weight housing.

Both horns of the Model 847 are designed on the optical slit principle. As a result, where the horn width is shorter than the wave length of the sound it passes, sound energy is widely dispersed in the direction of the short dimension.

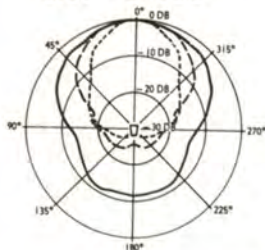
High frequency energy is not lost as a result of the compound horn design. In addition the peak-free frequency response characteristic reduces feedback and provides more natural voice and music reproduction. Limited bass range means amplifier energy can be restricted for most efficient operation.

Easy-off mounting bracket makes mounting simpler, quicker. In addition to the 847 for use in paging systems, the 847-45 provides a 45 ohm voice coil for installation in two-way intercommunication systems.

Specifications

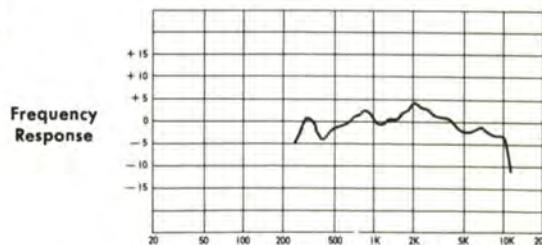
- FREQUENCY RESPONSE:** 250 to 10,000 cps
- SOUND PRESSURE LEVEL:** 114 db. at 4' on axis with 25 watt input between 750 and 1,250 cps
- EIA PRESSURE RATING:** 52 db.
- POWER HANDLING CAPACITY:** Program: 25 watts
- IMPEDANCE:** 16 ohms (for 45 ohms specify 847-45)
- DISPERSION:** 90° x 120°
- CROSSOVER:** 1500 cps
- LOW-FREQUENCY HORN TAPER:** 210 cycles
- MOUNTING:** Steel "U" Bracket. Three 3/16 in. holes in line on 1 1/2 in. centers
- SIZE:** 11 3/4 in. high, 7 3/4 in. wide, 10 7/16 in. deep
- NET WEIGHT:** 8 lbs.

List \$51.00
Model 847-45
List \$52.50



— 600 cps
- - - 5,000 cps
- · - · 3,000 cps

Polar Pattern



Model 844 Reentrant Projector

- Concentrated Range
- Low Cost

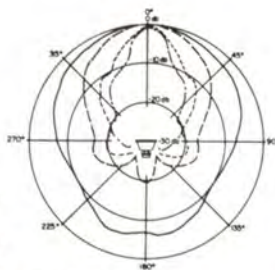
The Electro-Voice Model 844 Paging Projector is a compact, general-purpose speaker system featuring natural voice reproduction and high intelligibility. The rugged, diecast horn assembly and sturdy mounting bracket insure minimum maintenance problems even in the toughest installations. High efficiency and excellent power handling capacity are features of the removable 30-watt driver unit. Reentrant design of this system provides 90° dispersion with full-frequency response. The entire system is weatherproofed and tropicalized and the finish is attractive Mesa Tan baked enamel.

Specifications

- FREQUENCY RESPONSE:** 250 to 13,000 cps
- POWER HANDLING CAPACITY:** Program Material: 30 watts
- IMPEDANCE:** 8 ohms (for 45 ohms specify 844-45)
- MOUNTING:** Universal "U" Bracket
- DISPERSION:** 90°
- SOUND PRESSURE LEVEL:** 120 db. at 4' with 30 watts input
- SIZE:** 9 7/8" Diameter x 8 3/8" deep
- NET WEIGHT:** 5 lbs. 10 ozs.

Model 844
List \$36.50
Model 844-45
List \$38.00

— 600 cps
- - - 1,500 cps
- · - · 3,000 cps
- · - · 5,000 cps



Polar Pattern



Model AP-1 Pipe Stand Adapter for Models 847 and 844

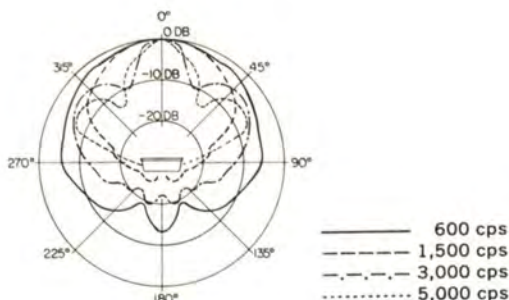
List \$2.50

Die cast adapter for mounting any E-V speaker "U" bracket to standard 1/2" pipe. Overall length 5 1/4". Accepts two 1/8" bolts on 3" to 4" centers. Shipping weight 1 pound.

Electro-Voice® Weatherproof Full Range Speakers



Musicaster® List \$90.00



Polar Pattern



Musicaster II List \$125.00

Musicasters for Realistic Music and Superior Voice Reproduction

The Electro-Voice Musicaster is a compact, wide-range, integrated loudspeaker system particularly suited to voice and music reproduction. Phenomenal bass response is achieved through optimum design of the integral folded-horn. High frequencies are smoothly and efficiently radiated from the exclusive Electro-Voice Radax dual-cone driver assembly. Rugged aluminum housing is one piece die casting.

All parts of the Musicaster are weatherproofed and fungusproofed for reliable operation under any conditions. Built-in feet are ideal for portable applications and the mounting bracket easily converts to a carrying handle for this light but powerful system. The speaker may also be permanently mounted in any position for best sound coverage.

In the Musicaster careful design has achieved superb musical balance without loss of clarity or intelligibility of speech.

The Musicaster is ideal for schools, churches, auditoriums, meeting halls, restaurants, super markets and offices, as well as a portable loudspeaker for outdoor music on patio terraces and in parks. At square dances, rallies, picnics and outdoor concerts the Electro-Voice Musicaster will perform reliably delivering wide-range music and crisp, clear speech.

Specifications

	MUSICASTER	MUSICASTER II
MECHANICAL CROSSOVER:	3500 cps	Same
ELECTRICAL CROSSOVER:	None	3500 cps
FREQUENCY RESPONSE:	60 to 13,000 cps	60 to 18,000 cps
DISPERSION:	120 degrees	Same
EIA PRESSURE RATING:	48 db	Same
SOUND PRESSURE LEVEL:	112 db. (750 to 1250 cps at 4' on axis with 30 watts input)	Same
POWER HANDLING CAPACITY:	30 watts Program Material	Same
NOMINAL IMPEDANCE:	8 ohms	Same
MOUNTING:	Universal "U" Bracket (integral die-cast feet for placement on any flat surface also provided)	Same
SIZE:	21½" H x 21½" W x 8½" D (not including bracket)	Same
WEIGHT:	31 lbs. net	33 lbs. net

Accessories for Musicasters

List \$4.50 **Model MB 1 Mounting Bracket**
 Surface mounting bracket allows mounting of any Musicaster flat against wall for neat unobtrusive installation. Replaces standard "U" bracket. Shipping weight 1 pound.

List \$37.50 **Model RE 36 Range Extender Kit**
 Range Extender kit converts standard Musicaster to Musicaster II. Includes driver, bezel, cross-over and wiring harness plus complete instructions. Shipping weight 4½ pounds.

Electro-Voice® Line Matching Transformers

TR SERIES TRANSFORMERS



MODEL TH HOUSING
Model TH Transformer Housing provides neat weatherproof mounting on any E-V transformer. Mount vertically or horizontally on any flat surface, 1/2" pipe or on horn bracket. Exclusive wattage indicator tells power setting at a glance. No soldering required with E-V transformers. Size: 4" high, 5" wide, 3 1/2" deep. Weight: 1 pound 11 ounces. List \$8.50

TR Series transformers are designed for effective use in any 70.7 volt line matching system. Use of 70.7 volt distribution reduces power losses, makes loudness adjustments easy and lowers cost. Conservatively designed the TR transformers feature wide frequency response, low distortion and flexible operation. Insertion loss is less than 1.0 db., can be used outdoors when mounted in Model TH Housing.

	TR5		TR15		TR30		TR50	
Frequency Response	35-20,000 cps		35-20,000 cps		35-20,000 cps		35-20,000 cps	
Insertion Loss	0.8 db.		0.9 db.		0.9 db.		0.8 db.	
Primary Taps	Watts	Ohms	Watts	Ohms	Watts	Ohms	Watts	Ohms
	5	1000	15	333	30	167	50	100
	2 1/2	2000	10	500	20	250	40	125
	1 1/4	4000	5	1000	10	500	25	200
	3/8	8000	2 1/2	2000	5	1000	15	333
Secondary Tap, Ohms	4, 8, 16		4, 8, 16		4, 8, 16		4, 8, 16	
Overall Size (H.W.D.)	1 1/16" x 2" x 1 5/16"		2 5/16" x 2 7/8" x 1 3/4"		2 5/16" x 2 7/8" x 1 3/4"		2 5/16" x 2 7/8" x 2 5/16"	
Mounting Hole Centers	1 3/4"		2 3/8"		2 3/8"		2 3/8"	
Net Weight	1 lb.		1 1/2 lb.		1 1/2 lb.		2 lb.	
List Price	\$5.00		\$6.00		\$7.00		\$9.00	



Model LS 12
List \$32.50

LS 12 Full Range 12" Speaker

An outstanding value for wall or ceiling mounted music and paging systems. These precision made 12" high fidelity speakers are economically priced yet give remarkably fine musical performance. Where the demand is for crisp wide range response plus high efficiency and low distortion, the LS-12 is the choice to make. Frequency response 40 to 13,000 cps (depending on enclosure). EIA sensitivity rating 43 db. Free space cone resonance 40-55 cps. Power handling capacity 20 watts, program, 40 watts peak. Impedance 8 ohms; mechanical cross-over 4500 cps. Total flux 64,600 maxwells. 12 1/4" diameter, 3 1/2" deep. Weight 5 1/2 pounds.



Model LS 8
List \$30.00

LS 8 Full Range 8" Speaker

The same remarkable construction features of the LS-12 are available in the LS-8 speaker where space is restricted. Frequency response 55 to 13,000 cps; EIA sensitivity rating 43 db. Free space cone resonance 55-70 cps. Power handling capacity 20 watts program, 40 watts peak. Impedance 8 ohms; mechanical cross-over 6000 cps. Total flux 64,500 maxwells. 8 3/8" diameter, 3 1/2" deep. Weight 4 1/2 pounds.



Speaker Mounting Baffles ...for wall or ceiling

Sturdy, attractive and easy to install the Model 509 and 510 Builders' Kits include all necessary parts for recessed mounting of any 8" or 12" speaker. Ideal for use with LS-8 and LS-12 speakers. These Builders' Kits are heavy gauge aluminum with a satin brushed finish. The simple lines and low silhouette allow the speaker installation to blend with any decor. These kits are specially designed to accommodate high fidelity speakers with their heavier frames. Kits include aluminum grille and trim ring, plaster ring, hardware and complete instructions.

Model 509, 8" Builders' Kit. Required hole size 8 1/2"; overall diameter 12 3/4"; depth (above surface) 5/8". Shipping weight 2 1/2 lbs. list price \$9.50

Model 510, 12" Builders' Kit. Required hole size 12 1/2", overall diameter 17"; depth (above surface) 5/8". Shipping weight 2 1/2 lbs. list price \$12.75

Where to Buy Electro-Voice Commercial Sound Products

E-V Microphones and speakers may be obtained from your nearest Electro-Voice franchised distributor. He stocks and displays these units for your convenience, insuring you prompt delivery and personalized service.

There are over 1,200 Electro-Voice franchised distributors throughout the United States and Canada, supervised directly by factory field representatives. They are ready to help you at any time with product information and advice on any commercial sound installation.

A complete list of the E-V franchised distributors in your area is available on request.

Detailed engineering data and application information is also available directly from the Commercial Sound Division, Electro-Voice, Inc., Buchanan, Michigan.

Index

Microphone	Page No.	Microphone	Page No.
Selecting your E-V Microphone Inside Front Cover, 24 and 25		Model 727, 727S	16, 17
E-V Dynamic Microphone Features	1, 2	Model 715, 715S	18, 19
Sound Spot Microphones Model 644	3	Model 718	18, 19
Cardioid Microphones		Model 712	18, 19
Model 664	4, 5	Special Purpose Microphones	
Model 951	4, 5	Model 715SR	20
Model 729	6	Model 622SCKK	20
Nondirectional Microphones		Model 622TRSKK	20
Model 636	7	Model 600D	20
Model 647	8, 9	Model 600TR	20
Model 623	8, 9	Model 805	20
Model 648	10, 11	Model 210KK	20
Model 630	10, 11	Differential Microphones	
Model 611	10, 11	Model 625SCKK	21
Model 624	12, 13	Model 625TRSKK	21
Model 605	12, 13	Model 606	21
Model 615	12, 13	Model 602	21
Model 911	14, 15	Model 602TR	21
Model 926	14, 15	Model 205KK	21
Model 920	16, 17	Model 205KKP	21
Model 924	16, 17	Model 205STCKK	21
		Model 205STCKKP	21

Commercial Sound Warranty

All Electro-Voice products are guaranteed against defects in material and workmanship. Your Electro-Voice distributor or field representative will assist in the return of any E-V product to the factory for warranty adjustment, repair, or replacement. Out of warranty returns to the factory may be made directly by the user . . . authorization is required only for warranty repairs.

Other Electro-Voice Products

Would you like more information about other Electro-Voice products?

We shall be happy to supply additional information about any of the following Electro-Voice product lines:

- Microphones for broadcast, TV and professional applications.
- High Fidelity components, speaker systems, enclosures, accessories, and "do it yourself" speaker enclosure kits.
- High Fidelity Phonograph cartridges.
- Power Point Phonograph needles and cartridges.
- RME Communications Equipment and Specialized Electronic Products.
- Marine Products and Automotive Tachometers.

Microphone	Page No.	Public Address	Page No.
Microphone Accessories	22	Paging and Talkback Speakers	
E-V Microphone Warranty	23	Pipe Stand Adapter Accessory	31
Microphone Calibration	23	Diffraction Model 847	31
E-V Microphone Code	23	Model 844	31
		Musicasters	32
		Accessories	
Public Address	Page No.	RE35 Range Extender	27
E-V Public Address Speaker Selection Chart	26	879 Joining Kit	27
		HC1000	28
Compound Horns and Projectors		HD1000	28
Diffraction Model 848	27	RA-1 Radial Adapter	28
Diffraction Model FC-100	28	MBI Mounting Bracket	32
Concentrating Model AC-100	28	RE36 Range Extender	32
Reentrant Horns		Transformers	Inside Back Cover
Model AR-150	29	Wolverine Speakers	Inside Back Cover
Model FR-150	29	Ceiling Baffles	Inside Back Cover
Convertible Drivers			
DC30A, DC40, DC50, DC30T,			
DC40T, DC50T	30		
Accessories	30		
Diaphragm Replacement Kit	30		

Electro-Voice®

Electro-Voice, Inc.
Buchanan, Michigan