

SHURE

MICROPHONES
AND MIXERS*
FOR
PUBLIC ADDRESS
AND TAPE
RECORDING



**and related circuitry products*

Selecting the Correct **SHURE** Microphone for

STEP I PICK-UP PATTERNS

WHAT IT IS

WHERE TO USE IT

UNIDIRECTIONAL



These microphones pick up sound mainly from the front, while suppressing sound and noise coming from the back. The most generally useful unidirectional pick-up pattern is the CARDIOID (meaning "heart-shaped"). This pattern will suppress rear sounds at least 70% while picking up front sound over a broad area. Sounds 120° to 180° off-axis are almost entirely suppressed.

In addition to the Cardioids (the Unidyne IV, Unidyne III, Unidyne II, Unidyne A, Unidyne B and the Unisphere Series of unidirectional microphones) other Shure unidirectional microphones are described as Super-Cardioid (Model 330).

The most commonly applied solution to feedback problems. Greatly simplifies planning of sound installations. With the rear of the microphone rejecting sound, the microphone can be placed so that sound projecting from the loudspeaker cannot re-enter the microphone to generate feedback. Performers can work much further away from unidirectional microphones than with omnidirectional microphones.

Effectively suppresses audience noises, coughing, shuffling feet, etc. Ideal for fixed installation before an individual performer or a small group. Pickup of large groups can be effected with multiple microphone installation.

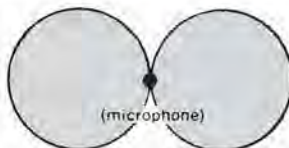
OMNIDIRECTIONAL



These microphones pick up sound more or less evenly from all directions. In effect, they are nondirectional. They can be hand-held, stand-mounted, or worn around the neck. This type includes the greatest number of microphones, together with the widest price range and response characteristics.

Good for general applications where feedback or audience noise is no great problem. Extremely versatile. Practically all ultra-slim "probe" type microphones are omnidirectional units—they are ideal for "walk-around" and interview situations. (Note: Shure also makes unidirectional "probes" (See page 4)

BIDIRECTIONAL



Pick up sound from front and back while suppressing sound from sides, top and bottom.

Ideally suited for use when two performers, or groups, are on opposite sides of microphone. Allows the same freedom of movement as unidirectional microphones, while solving difficult feedback problems such as rooms with "hard" ceilings or where loudspeakers are mounted over or to the side of the microphone.

STEP II FREQUENCY RESPONSE

The fidelity of reproduction afforded by the microphone depends on three factors of the frequency response:

1. Response Range. In general, the more extended the frequency response of

the microphone is, the more faithful the reproduction will be.

2. Smoothness. A high fidelity microphone is made so that no conspicuous abrupt peaks or valleys of output occur at any frequency. This results in an essentially smooth frequency response curve.

3. Flatness. A flat frequency response curve is one showing output remaining at approximately the same level throughout the frequency range. This means that the microphone responds

equally well at any frequency, an essential of high fidelity reproduction.

While the microphone with the widest range, smoothest and flattest frequency response curve will give the highest fidelity, it is not necessarily the best microphone for every application. [For example, a shaped (peaked) response is often devised to achieve added "presence" for microphones used in paging and communications systems.] Frequency response required for various applications is summarized below:

RESPONSE REQUIREMENTS

Use	Response Range	Response Character	Possible Microphones
Recording, broadcasting, highest quality public address for music and voice	50-15,000 Hz	Flat Smooth	Ribbon Dynamic
High quality public address for voice and music	70-10,000 Hz	Flat or slightly rising No prominent peaks	Ribbon Dynamic Some crystals or ceramics
Indoor paging systems and public-address systems for voice use	200-5,000 Hz	Slightly rising No prominent peaks	above plus Some Controlled Magnetics
Outdoor paging systems or systems in noisy locations. For Voice use when maximum intelligibility required.	300-3,500 Hz	Rising A peak in the 2000 to 3500 Hz region is often desirable	Controlled Magnetic Dynamic Carbon Some Ceramics

Public Address Applications

STEP III KINDS OF MICROPHONES

WHAT IT IS

WHERE TO USE IT

SHURE SERIES NO. 200 CERAMIC

Similar to crystal microphone in design but uses man-made ceramic element. Economical, superior to crystal for outdoor use. Unaffected by severe temperature and humidity changes. High impedance.

Wherever price is an important factor. Shure makes omnidirectional and unidirectional ceramic microphones—all are economical, rugged, attractively styled.

SHURE SERIES NO. 300 RIBBON

Virtually uniform frequency response. Definitely among the very best available. Extremely rugged for normal use indoors. Adjustable impedance.

Wherever quality of response is the first consideration in broadcasting, professional recording, or public address, look to Shure Ribbon microphones (unidirectional and bidirectional). Excellent for music. Not recommended for outdoor use.

SHURE SERIES NO. 400 CONTROLLED MAGNETIC

Balanced armature . . . rugged, stable, high output. Originally developed for the military to combine the advantages of the carbon and dynamic microphone . . . with none of the disadvantages—such as the need for external power supply in a carbon. Has the ability to directly supply any impedance, without transformer. Modestly priced, extremely dependable performance.

Indoors, outdoors—wherever rugged performance must be coupled with modest price and suitable response. Ideal for paging, language labs, portable P.A. systems. Omnidirectional only.

SHURE SERIES NO. 500 DYNAMIC

Moving-coil microphone, available in a wide range of prices and types. The better dynamic units are among the very best microphones for frequency response. Smooth response (up to 20,000 Hz).

The dependable unit where exceptional performance, ruggedness and reliability are required, such as broadcasting and better quality Public Address. Superior in frequency response to ceramic, crystal, carbon, and Controlled Magnetic units. Unidirectional, omnidirectional.

SHURE SERIES NO. 700 CRYSTAL

Good quality at a low price. Response is somewhat limited (normally about 10,000 Hz maximum). Special sealed crystals used in Shure units mean you can use them where humidity is high or outdoors (except in direct sun over prolonged periods). High Impedance.

Crystal units are primarily used where price is a limiting factor. Very high in output.

STEP IV PRICE

While Shure microphones are available in a wide price range, it is well to keep in mind that they are the lowest cost single item in the average system—and that their function is critical! In truth, your system can be no better than the microphone that originally converts the sound waves into electrical impulses. In general, unidirectional cardioid microphones are the most expensive (as a category); however, some fine quality omnidirectional and bidirectional microphones can cost as much as unidirectionals. Where economy is the major factor, we suggest that you look to crystal, ceramic or "Controlled Magnetic" units. Where quality is first and foremost, we recommend ribbons or dynamics.

MICROPHONES FOR TAPE RECORDING

UPGRADE YOUR SYSTEM

In all probability, the weakest link between you and good, professional sounding live tapes is the microphone you're using. Virtually without exception, the microphones supplied with tape recorders—even relatively expensive models—are significantly below the performance and capabilities of the tape recorder itself. Further, with a good unidirectional microphone (such as the Shure Unidynes and Unispheres) you can control objectional background noise, room reverberations, and echoes. Voices and instruments will sound far more natural with less overloading of the tape, "fuzziness," and other distortions.

WHICH MICROPHONE TO USE

Without exception, every microphone in this brochure can be used with a tape recorder. (NOTE: Refer to your tape recorder instruction manual as to the microphone impedance [High or Low] your tape recorder requires.) The finest microphones are the Dynamic and Ribbon type microphones. Unidirectional (or CARDIOID) microphones pick up sound from the front only and are highly recommended because they tend to suppress background noise. We recommend Flat, Smooth wide-range frequency response microphones in the 50-15,000 Hz range. See text at left.

FOR STEREO RECORDING

Shure makes many specially matched pair stereo microphones at no extra cost. They are identical to standard microphones except they are matched to plus or minus 1 db in level, and 1½ db in frequency response.

See page 16.



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PATENT NOTICE: Shure microphones may be manufactured under one or more of the following U.S. Patents: 3,132,713; 3,240,883; D-171,055; D-178,018; D-194,151; D-194,749; and D-198,850.

FIRST IN PUBLIC-ADDRESS AND TAPE RECORDING MICROPHONES

Recognizing that the quality of reproduction a public address or tape recording system provides is absolutely limited by the quality of sound put into it by the microphone, Shure, for over a quarter century has provided the highest quality in microphones.

For Public Address Systems: Shure microphones have consistently been selected by sound engineers and audio specialists for installations where quality of reproduction or difficult acoustics required a superior microphone for applications as diverse as theaters, nightclubs, auditoriums, music halls, schools, churches, meeting halls, gymnasiums, legislative or judicial chambers, or any other indoor or outdoor application.

For Tape Recording: The Shure microphones in this catalog greatly exceed the performance specifications of the microphone supplied with your tape recorder. Many models are in use by professional recording engineers. Specially matched pairs of microphones for stereo recording are available at no extra cost.

Shure microphones are rugged—may be depended upon to deliver consistent performance for years without deviation from their original standards. Shure microphone accessories also provide additional versatility and practical value. This catalog contains information on Shure products designed to give the utmost performance for both public-address and tape recording use. Write for other catalogs covering Communications, Paging, Dispatching, Amateur Radio and CB microphones.



UNIDYNE[®] Cardioid Dynamic Microphones

SHURE

UNIDYNE IV Microphones MODELS 548 • 548S • 549

The premier member of the world-famed Unidyne family of microphones. An ultra high quality, super-rugged microphone with an unusually effective cardioid pickup pattern. Unusually smooth, wide-range response for voice and music. Has all the superb feedback and "boom" suppressing characteristics of the Unidyne III (below), combined with exceptionally rugged construction. Easily serviced in the field. Specially cushioned, reinforced cartridge. Cannon type connectors.

Model 548 Unidyne IV: For stand or hand usage. Includes A25B swivel adapter. **List Price: \$105.00**

Model 548S Unidyne IV: Mounted on a lifetime swivel that also contains On-Off switch. **List Price: \$110.00**

Model 549 Unidyne IV: Professional, stage version of Unidyne IV. Special vibration-isolation shock-mount to insulate against vibration and mechanical shocks. Special "storage" packaging . . . ideal for performers who carry their own unit to clubs and auditoriums. Less cable. Combination impedance selection-on-off switch. **List Price: \$158.00**

SPECIFICATIONS

Frequency Response: 40 to 15,000 Hz.

Impedance and Output Levels: Models 548, 548S Dual. Low —57 db (0 db = 1 milliwatt per 10 microbars); .131 millivolts/microbar. High —55db (0 db = 1 volt per microbar); 1.76 millivolts/microbar.

Model 549—dual (50 ohms) —56 db (0 db = 1

milliwatt per 10 microbars); .067 millivolts/microbar. M (250 ohms) —56 db (0 db = 1 milliwatt per 10 microbars); 149 millivolts/microbar.

Cable: Models 548, 548S: 15-foot, two conductor shielded with Cannon XLR-3-11C Connector on microphone end. Model 549: Less cable.



UNIDYNE III Microphones MODELS 545 • 545S • 545L • 544 • 546 • 547

Recommended for use in any location where feedback prevents good sound reproduction.

Small and strikingly handsome, the acoustical design of the Unidyne III Microphones approaches the theoretical ideal of the uniform cardioid pickup pattern. Reproduces the human voice with remarkable fidelity. A favorite choice for singers and entertainers. Low frequency characteristics eliminate boominess, making them especially good for pickup of drums and bass instruments.

Model 545 Unidyne III: For hand or stand usage. Includes an A25B Swivel adapter. **List Price: \$89.00**

Model 545S Unidyne III: Mounted on a lifetime swivel that also contains the On-Off switch. **List Price: \$94.00**

Model 545L Unidyne III: Designed for lavalier use. Lavalier cord included. Can also be mounted on a flexible gooseneck. **List Price: \$74.00**

Model 544 Unidyne III: The basic microphone for "gooseneck" mounting. **List Price: \$84.00**
To obtain microphones complete with "goosenecks," order Models 544-G6 (\$87.00), or 544-G12 (\$88.00), or 544-G18 (\$89.00), for 6-inch, 12-inch, or 18-inch goosenecks.

Model 546 Unidyne III: Features a special live-rubber, vibration-isolating shock mount. Recommended for high quality public address systems and tape recording—especially where floor or stage is "shaky." **List Price: \$142.00**

Model 547 Unidyne III: Stage version of Model 546. Includes storage case. Less cable. **List Price: \$142.00**

SPECIFICATIONS

Frequency Response: All models except 546 & 547—50 to 15,000 Hz. Model 546, 547—40 to 15,000 Hz.

Impedance and Output Level:

Models 545, 545S, 544: Dual. Model 545L: Low. Low —57db (0 db = 1 milliwatt per 10 microbars); .141 millivolts/microbar. High —55 db (0 db = 1 volt per microbar); 1.760 millivolts/microbar.

Model 546, 547—Dual: L (50 ohms) —56 db (0 db = 1 milliwatt per 10 microbars); .067 millivolts/microbar. M (250 ohms) —56 db (0 db =

1 milliwatt per 10 microbars); .149 millivolts/microbar.

Cable:

Model 545, 545S: 15-foot, 3-conductor shielded with an Amphenol MC4M Type Plug connector.

Model 545L: Attached 20-foot, 2-conductor shielded.

Model 544: Attached 7-foot, 3-conductor shielded.

Model 546: 20-foot, 2-conductor shielded with a Cannon XL-3-11 Type Connector.

Model 547: Less cable.



SHUREfamous **UNIDYNE[®]** and **UNISPHERE[®]****UNIDYNE II Series****MODELS 55S • 55SW • 556S**

Famed Throughout the World for Ruggedness and Reliability.

The Unidynes are the largest selling microphones throughout the world—used consistently by famed celebrities for those important events where the faithfulness of sound reproduction is critical. Model 55S Unidyne II is highly recommended for fine quality public-address, theater-stage sound systems, recording and remote broadcasting, and low-gain tape recording.

Model 556S Unidyne II is specially constructed and tested to meet the requirements of the broadcast and television studio, and is held within close tolerances in frequency response and directivity. The Model 556S is provided with vibration-isolation unit of live rubber construction in the stand connector. Includes multi-impedance switch for high, medium or low impedance.

Model 55S Unidyne II: Without On-Off Switch. List Price: \$87.00

Model 55SW Unidyne II: With On-Off Switch. List Price: \$89.00

Model 556S Unidyne II: Features a special live-rubber, vibration-isolating shock mount. List Price: \$142.00

SPECIFICATIONS

**Model
55SW**

Frequency Response: Models 55S and 55SW—50 to 15,000 Hz.

Model 556S—40 to 15,000 Hz.

Impedance and Output Level:

Models 55S and 55SW: Low (30 to 50 ohms) —55.5 db (0 db = 1 milliwatt per 10 microbars); .071 millivolts/microbar. Medium (150 to 250 ohms) —56.5 db (0 db = 1 milliwatt per 10 microbars); .141 millivolts/microbar. High —55.5 db (0 db = 1 volt per microbar); 1.68 millivolts/microbar.

Model 556S: Low (30 to 50 ohms) —56.5 db (0 db

= 1 milliwatt per 10 microbars); .067 millivolts/microbar. Medium (150 to 250 ohms) —57.5 db (0 db = 1 milliwatt per 10 microbars); .130 millivolts/microbar. High —56 db (0 db = 1 volt per microbar); 1.58 millivolts/microbar.

Cable:

Models 55S and 55SW: 15-foot, 2-conductor shielded with an Amphenol MC3M Type Connector.

Model 556S: 20 foot, 2-conductor shielded with a Cannon XL3-11 Type Connector.

**Model
556S**

UNIDYNE A Microphones**MODELS 580SA • 580SB**

The Unidyne A Series of microphones offers unidirectional problem-solving ability at a moderate cost with a highly effective cardioid pickup pattern—permits microphones to be located unusually close to loudspeakers. Solves feedback and boominess problems in low-budget sound systems. Built-in On-Off switch. Versatile: can be used on a stand, or in the hand, indoors or out. Includes A25B Swivel Adapter (5/8" stand thread). The case is satin chrome with stainless steel grille.

Model 580SA Unidyne A: High impedance. List Price: \$62.00

Model 580SB Unidyne A: Low impedance. List Price: \$62.00

SPECIFICATIONS

Frequency Response: 50 to 13,000 Hz.

Impedance and Output Level:

Model 580SA: High —56.5 db (0 db = 1 volt per microbar); 1.48 millivolts/microbar.

Model 580SB: Low (150 to 250 ohm) —57 db (0 db

= 1 milliwatt per 10 microbars); .105 millivolts/microbar.

Cable:

Model 580SA: Non-detachable 15-foot, one-conductor shielded.

Model 580SB: Non-detachable 15-foot, two-conductor shielded.

**Model
580SB**

**Model
580SA**

UNIDYNE B Microphones**MODELS 515SA • 515SB**

Lowest cost Unidyne, ever. Has the feedback suppression and uniform, symmetrical pick-up pattern features that have made Unidynes world famous. An excellent choice where budget is the prime consideration. Can be used on stand, or in hand. Built-in On-Off switch. Includes A25B swivel adapter.

Model 515SA Unidyne B: High Impedance. List Price: \$42.00

Model 515SB Unidyne B: Low Impedance. List Price: \$42.00

SPECIFICATIONS

Frequency Response: 80 to 13,000 Hz.

Impedance and Output Level: Model 515SA: High —58 db (0 db = 1 volt per microbar); 1.25 millivolts/microbar. Model 515SB: Low (25 to 200

ohm) —59 db (0 db = 1 milliwatt per 10 microbars); .089 millivolts/microbar.

Cable: Model 515SA: Non-detachable 15-foot, one-conductor shielded. Model 515SB: Non-detachable 15-foot, two conductor shield.

**Model
515SA &
515SB**

family of Cardioid Dynamic Microphones

SHURE

UNISPHERE I Microphones **MODELS 565 • 565S • 566**

Now! You can get all the superb feedback-control and uniform cardioid pickup pattern features that have made the Unidyne family of microphones world-renowned for solving difficult public-address problems—with the added problem-solving ability achieved through special filter assemblies that effectively control explosive breath sounds ("POP") and minimize wind noise in outdoor locations (eliminating the need for windscreens). The Unisphere I provides excellent reproduction of voice and music—can be effectively used outdoors and indoors.

Model 565 Unisphere I: For stand or hand usage. Includes an A25B swivel adapter. **List Price: \$100.00**

Model 565S Unisphere I: On-Off switch included as part of the swivel connector assembly. **List Price: \$105.00**

Model 566 Unisphere I: Features a built-in vibration-isolation shock mount. **List Price: \$147.00**

SPECIFICATIONS

Frequency Response: Models 565 and 565S—50 to 15,000 Hz. Model 566—40 to 15,000 Hz.

Impedance and Output Level:

Models 565 and 565S: Dual: Low —57 db (0 db = 1 milliwatt per 10 microbars); .141 millivolts/microbar. High —54.5 db (0 db = 1 volt per microbar); 1.88 millivolts/microbar.

Model 566 Dual: Low (30 to 50 ohms) —55 db (0 db = 1 milliwatt per 10 microbars); .075 millivolts/microbar.

Medium (250 ohms) —55 db (0 db = 1 milliwatt per 10 microbars); .158 millivolts/microbars.

Cable:

Model 565 and 565S: 15-foot, three-conductor shielded with Amphenol MC4M Type Connector. Model 566: 18-foot, two-conductor shielded with Cannon XL-3-11 Type Connector.



UNISPHERE A Microphones **MODELS 585SA • 585SB • 585SAV • 585SBV**

The Unisphere A Series of Microphones are economical unidirectional dynamic microphones featuring special filters that provide protection from wind and "pop" (explosive breath sounds). They also eliminate annoying loudspeaker "squeal" caused by feedback. These models are particularly suitable for use in locations where omnidirectional microphones may not operate properly because of poor acoustics or where wind creates a problem. The Model 585 Series comes complete with shock-mounted cartridge, On-Off switch, detachable cable, and a Model A25B swivel adapter.

The Model 585SAV and 585SBV are two of the most ingenious microphones ever designed because the volume control on the microphone case enables the user to change the loudness of the P.A. system at the microphone location. Ideal for applications where the amplifier controls are inaccessible or where the speaker or singer wants to control his own volume for dramatic effects.

Model 585SA Unisphere A: High impedance. **List Price: \$68.00**

Model 585SB Unisphere A: Low impedance. **List Price: \$68.00**

Model 585SAV Unisphere A: With adjustable volume control; High impedance. **List Price: \$76.00**

Model 585SBV Unisphere A: With adjustable volume control; Low impedance. **List Price: \$76.00**

SPECIFICATIONS

Frequency Response: 50 to 13,000 Hz.

Impedance and Output Level:

Models 585SA and 585SAV: High —56.5 db (0 db = 1 volt per microbar); 1.48 millivolts/microbar.

Models 585SB and 585SBV: Low —56.5 db (0 db = 1 milliwatt per 10 microbars); .105 millivolts/microbar.

Cable:

Models 585SA and 585SAV: 15-foot, one-conductor, shielded with an Amphenol MC1F Type Connector.

Models 585SB and 585SBV: 15-foot, two-conductor shielded with an Amphenol MC2M type Connector.



UNISPHERE B Microphones **MODELS 588SA • 588SB**

Maximum feature dynamic microphones at minimum cost! True cardioid pickup pattern for feedback control; superior "pop" rejection; shock-mounted cartridge to reduce handling noises; On-Off switch; trouble-free Cannon connector—all for only \$60! Includes Model A25B swivel adapter and long-life 15-foot cable.

Model 588SA Unisphere B: High impedance. **List Price: \$60.00**

Model 588SB Unisphere B: Low impedance. **List Price: \$60.00**

SPECIFICATIONS

Frequency Response: 80 to 13,000 Hz.

.085 millivolts/microbar.

Impedance and Output Level: Model 588SA: High—59 db (0 db = 1 volt per microbar); 1.11 millivolts/microbar. Model 588SB: Low (25 to 200 ohms) —59.5 db (0 db = 1 milliwatt per 10 microbars);

Cable: Model 588SA: 15-foot, one-conductor shielded, with Cannon XLR-3-11C connector on microphone end. Model 588SB: 15-foot, two-conductor shielded, with Cannon XLR-3-11C connector on microphone end.



SHURE

Omnidirectional Dynamic Microphones

Vocal Sphere **MODEL 579SB**

A superb sounding omnidirectional microphone that delivers extremely natural, lifelike voice reproduction for vocalists or speakers. Effective built-in wind and "pop" filters reduce breath noises, and the isolated cartridge mount reduces handling noises. Built-in On-Off switch with locking switch plate included to lock in "On" position. Includes Model A57S swivel adapter and long-life 20-foot cable.

Model 579SB Vocal Sphere: Low impedance. **List Price: \$75.00**

SPECIFICATIONS

Frequency Response: 50 to 15,000 Hz.

Impedance and Output Level: Low (25 to 200 ohms)
—58.5 db (0 db = 1 milliwatt per 10 microbars); 100 millivolts/microbar.

Cable: 20-foot, two-conductor shielded, rubber-jacketed with Cannon XLR-3-11C connector at microphone end.

MODELS 578 • 578S Omnidyne Ultra-Slim Probes

Strikingly modern ultra-slim 1 3/4 inch diameter design. Inconspicuous because of slender shape. Smooth, natural response without change in pickup pattern or sensitivity from 50 to 17,000 Hz. Built-in wire mesh "pop" filter reduces breath noise. Extremely rugged construction. Use indoors and outdoors. Satin chrome steel case provides magnetic shielding as well as good looks. Model 578 includes a special slip-in swivel stand adapter for stand or hand-held use; it also has a built-in "On-Off" switch with locking switch plate included to lock in "On" position. Model 578S mounted on swivel switch assembly with "On-Off" switch as well as attached Cannon XL-3-11 type cable connector.

Model 578 Omnidyne: For hand or stand use. **List Price: \$87.00**

Model 578S Omnidyne: With attached swivel assembly. **List Price: \$95.00**

SPECIFICATIONS

Frequency Response: 50 to 17,000 Hz.

Impedance and Output Level: Dual.
Low —60 db (0 db = 1 milliwatt per 10 microbars); .100 millivolts/microbar.
High —59 db (0 db = 1 volt per microbar); 1.11 millivolts/microbar.

Cable:

Model 578: Non-detachable 15-foot three-conductor shielded.

Model 578S: Detachable 15-foot two-conductor shielded.

MODEL 576 Omnidyne Dynamic

A superb professional-quality dynamic probe microphone (with striking slim design and 3/4" diameter) designed for television, radio-TV broadcasting and recording studios. Features smooth, natural, wide-range response from 40 to 20,000 Hz. for authentic pickup of voice or music. The Model 576 is an ideal hand-held microphone because of its unique "feel" and "balance." Rugged steel case provides effective magnetic shielding as well as good looks. Finished in nonreflecting gray with stainless steel grille.

Model 576: Probe Dynamic. **List Price: \$184.00**

SPECIFICATIONS

Frequency Response: 40 to 20,000 Hz.

Impedance and Output Level: Dual.
50 ohms —60 db (0 db = 1 milliwatt per 10 microbars); .050 millivolts/microbar.

150 ohms —60 db (0 db = 1 milliwatt per 10 microbars); .094 millivolts/microbar.

Cable:
25-foot three-conductor shielded broadcast cable.

MODEL 571 Omnidyne Miniature Microphone

This extremely small microphone is suitable for hand-held and stand use. Features smooth peak-free response from 50 to 10,000 Hz. for voice applications where a small, inconspicuous microphone should be used. Use in hand, on stand, hang over stage, conceal in studio and other broadcast, motion picture, theatrical and public-address applications. A Model A57R Swivel Adapter is included.

List Price: \$100.00

SPECIFICATIONS

Frequency Response: 50 to 10,000 Hz.

Impedance and Output Level:
Low —61.0 db (0 db = 1 milliwatt per 10 micro-

bars); .079 millivolts/microbar.

Cable:
Non-detachable 30-foot, two-conductor shielded.

MODEL 572G Omnidyne Gooseneck Microphone

Features the same response and size characteristics of Model 571, plus the added feature of permanent mounting on new small-diameter, ultra-quiet gooseneck. Comes complete with the 12-inch gooseneck and mounting flange. Ideal for permanent mounting on lecterns, paging and dispatching stations, in language laboratories and other applications where a permanently mounted quality microphone is required. The gooseneck is of the new ultra-quiet type that reduces noise caused by adjusting the microphone.

List Price: \$115.00

SPECIFICATIONS

Frequency Response: 50 to 10,000 Hz.

Impedance and Output Level:
Low. —61.0 db (0 db = 1 milliwatt per 10 micro-

bars); .079 millivolts/microbar.

Cable:
Non-detachable 5-foot, two-conductor shielded.

and Dynamic Lavalier Microphones

SHURE

Dynamic Lavalier Microphones

MODELS 570 • 570S

These professional lavalier microphones are designed for use in television and for lectures—feature special “shaped” response for superior lavalier performance and reduction of pickup of clothing and cable noise. Designed for inconspicuous use with “Flex-Grip” lavalier assembly. These microphones are the most versatile available because the “Flex-Grip” design holds the microphone firmly, yet permits easy and quick removal. The lavalier clip opens right or left or can be removed. The case is nonreflecting gray metal with a stainless steel grille.

Model 570: Without “On-Off” switch. **List Price: \$100.00**

Model 570S: With “On-Off” switch. **List Price: \$110.00**

SPECIFICATIONS

Frequency Response: 50 to 12,000 Hz.

bars); .085 millivolts/microbar.

Impedance and Output Level:

Low —60.5 db (0 db = 1 milliwatt per 10 micro-

Cable:

30-foot non-detachable, two-conductor shielded.



Model 570

Model 570S

MODEL 560

A dual impedance, dynamic microphone with a specially tailored response specifically designed for virtually every lavalier application. This is a good, general-purpose lavalier microphone at a very modest price. The compact and lightweight modern black satin all-metal case has a stainless steel grille. Impedance can be quickly changed from High to Low by simply moving pin jacks. The clip-grip lavalier assembly holds the microphone securely to the wearer. **List Price: \$45.00**

SPECIFICATIONS

Frequency Response: 40 to 10,000 Hz.

Low —55.5 db (0 db = 1 milliwatt per 10 micro-bars); .149 millivolt/microbar.

Impedance and Output Level: Dual.

High —56.5 db (0 db = 1 volt per microbar); 1.48 millivolts/microbar.

Cable:

18-foot, non-detachable, two-conductor shielded.



Model 560

Dynamic Gooseneck **MODEL 561**

A compact, high quality, tamper-proof dynamic microphone with an attached cable and standard 5/8 inch —27 thread for direct mounting on either a flexible gooseneck or a fixed pipe. The extremely rugged, dynamic cartridge is easily field replaced. This microphone features excellent voice response for language lab systems, paging applications, base-station communications and talk-back and cuing from professional control-room installations. Goose-neck must be ordered separately. **List Price: \$34.00**

SPECIFICATIONS

Frequency Response: 40 to 10,000 Hz.

bars); 1.31 millivolts/microbar.

Impedance and Output Level:

Low —56.0 db (0 db = 1 milliwatt per 10 micro-

Cable:

4-foot non-detachable, two-conductor shielded.



Model 561

Probe Dynamic **MODEL 550S**

A rugged, high quality omnidirectional dynamic microphone designed for use in top-quality sound reinforcement applications. It features smooth, wide-range response from 50-15,000 Hz. and is excellent for pickup of voice and music. Provides freedom from “pop” (explosive breath sounds). The performance and appearance characteristics make the “Probe-Dynamic” a wise choice for use in meeting rooms, auditoriums, for tape recording or wherever a quality omnidirectional microphone is required, and moderate cost is an important consideration. Includes swivel and “On-Off” switch. **List Price: \$72.00**

SPECIFICATIONS

Frequency Response: 50 to 15,000 Hz.

High —57.5 db (0 db = 1 volt per microbar); 1.32 millivolts/microbar.

Impedance and Output Level: Dual.

50-250 ohms —57.0 (0 db = 1 milliwatt per 10 microbars); .118 millivolts/microbar.

Cable:

15-foot, two-conductor shielded.



Model 550S

MODELS 533SA • 533SB • 533SAV Spher-O-Dyne

An omnidirectional microphone of unusual quality for such a moderate cost. Built-in wind, breath, and pop filters make it ideal for close-to-the-mouth applications, minimizing annoying, explosive breath sounds. The Spher-O-Dynes feature excellent reproduction of voice and music, combined with a well-balanced "hand-ability" for virtually unlimited applications such as interview situations, singing groups, general-purpose public-address, tape recording, etc. Response is uniform from 40 to 11,000 Hz. There is a built-in "On-Off" Switch, as well as an adjustable swivel adapter for stand use.

Model 533SAV has a volume control on the microphone case that enables the user to change the loudness of the P.A. system at the microphone location. Ideal for applications where amplifier controls are inaccessible, or where the speaker or singer wants to control his own volume for dramatic effects.

Model 533SA Spher-O-Dyne: High impedance. **List Price: \$53.00**

Model 533SB Spher-O-Dyne: Low impedance. **List Price: \$53.00**

Model 533SAV Spher-O-Dyne: With adjustable volume control, high impedance. **List Price: \$60.00**

SPECIFICATIONS

Frequency Response: 40 to 11,000 Hz.

Impedance and Output Level:

Model 533SA and 533SAV: High Impedance —55.0 db (0 db = 1 volt per microbar) 1.76 millivolts/microbar.

Model 533SB: Low Impedance —55.5 db (0 db =

1 milliwatt per 10 microbars) .149 millivolts/microbar.

Cable:

Model 533SA and 533SAV—15-foot one-conductor shielded.

Model 533SB—15-foot two-conductor shielded.

MODELS 51 • 51S Sonodyne

A favorite for schools and other public-address applications where ruggedness and high output are desirable features. Excellent for use with tape recorders requiring microphones with high output. Multi-impedance switch gives choice of Low, Medium, or High Impedance. Lifetime positive-lock swivel.

Model 51 Sonodyne: Without "On-Off" Switch. **List Price: \$52.00**

Model 51S Sonodyne: With "On-Off" Switch. **List Price: \$54.00**

SPECIFICATIONS

Frequency Response: 60 to 10,000 Hz.

Impedance and Output Level:

Low: 30-50 ohm impedance —51.0 db (0 db = 1 milliwatt per 10 microbars); .118 millivolts/microbar.

Medium: 150-250 ohms impedance —51.0 db (0 db

= 1 milliwatt per 10 microbars); .265 millivolts/microbar.

High: —48.5 db (0 db = 1 volt per microbar); 2.51 millivolts/microbar.

Cable:

15-foot, two-conductor shielded.

MODELS 540 • 540S Sonodyne II

A compact, versatile, modern omnidirectional microphone with a high output dynamic element, at a moderate cost. The "Sonodyne II" features wide-range response with adjustable frequency response which allows the user to tailor the microphone to the application.

Model 540 Sonodyne II: Without "On-Off" Switch. **List Price: \$50.00**

Model 540S Sonodyne II: With "On-Off" Switch. **List Price: \$52.00**

SPECIFICATIONS

Frequency Response: 50 to 13,000 Hz.

Impedance and Output Level: Dual.

50-250 ohm impedance: —56.0 db (0 db = 1 milliwatt per 10 microbars); .149 millivolts/microbar.

High: —53.5 db (0 db = 1 volt per microbar); 2.13 millivolts/microbar.

Cable:

15-foot two-conductor shielded.

MODELS 575S • 575SB • 275S**Versadyne and Versaplex**

A low-cost series of microphones featuring smart, modern, lightweight construction. Their smooth, wide-range response of 40 to 15,000 Hz. (Model 275S, 40 to 12,000 Hz.) is ideal for tape recording, general public address, as well as many other applications. Built-in filters reduce voice "pop." Slide-to-talk locking switch, and a lavalier cord and stand adapter are included.

Model 575S Versadyne Dynamic Microphone: High impedance. **List Price: \$25.00**

Model 575SB Versadyne Dynamic Microphone: Low impedance. **List Price: \$22.00**

Model 275S Versaplex Ceramic Microphone: High impedance. **List Price: \$16.00**

SPECIFICATIONS

Frequency Response: 575S and 575SB—40 to 15,000 Hz. 275S—40 to 12,000 Hz.

Impedance and Output Level:

Model 575S: High —56 db (0 db = 1 volt per microbar); 1.58 millivolts/microbar.

Model 575SB: Low —57.5 db (0 db = 1 milliwatt per 10 microbars); .171 millivolts/microbar.

Model 275S: High —59.5 db (0 db = 1 volt per microbar); 1.050 millivolts/microbar.

Cable:

Attached 7-foot, one-conductor shielded.

Studio Ribbon Microphones

SHURE

The characteristically wide-range response of the ribbon element has made it the most widely used type of microphone for broadcasting and professional recording. Shure engineers have designed remarkable ruggedness into Shure ribbon microphones, making them an excellent dependable choice for any indoor application where highest quality response is required. (Shure ribbon microphones actually have been used "to pound nails," and subjected to severe drop tests—without affecting the performance characteristics.)

Uni-Ron Unidirectional **MODEL 330**

Highly recommended for motion-picture studios, TV studios, radio stations, professional recording, and all other uses where quality requirements are of the highest. Model 330 has a true super cardioid, unidirectional pickup pattern which greatly reduces the pickup of random noise and solves feedback problems. The features that make the "330" so outstanding in performance, so dependable in operation, are the patented, world-famous "Uniphase" system; the true super cardioid pickup pattern; a ribbon transducer which provides extended smooth response of 30-15,000 Hz.; a multi-impedance switch; a lifetime swivel; and a vibration-isolation unit mounted in live rubber. **List Price: \$126.00**

SPECIFICATIONS

Frequency Response: 30 to 15,000 Hz.

Impedance and Output Level:

50 ohm Impedance: -60 db (0 db = 1 milliwatt per 10 microbars); .049 millivolts/microbar.

150 ohm Impedance: -58.5 db (0 db = 1 milli-

watt per 10 microbars); .089 millivolts/microbar.

250 ohm Impedance: -58.5 db (0 db = 1 milli-

watt per 10 microbars); .117 millivolts/microbar.

Cable:

20-foot, two-conductor shielded broadcast type.

Studio Gradient **MODEL 300**

The Model 300 Studio Gradient is a bidirectional microphone which provides sound pickup at the front and rear of the microphone, but greatly reduces pickup at the sides. Can be placed at a much greater distance from the performer than is possible with omnidirectional microphones. Features are a readily accessible Voice-Music switch, a vibration-isolation unit mounted in live rubber, and a multi-impedance switch. The frequency response (production uniformity guaranteed to $\pm 2\frac{1}{2}$ db), is 40 to 15,000 Hz. **List Price: \$158.00**

SPECIFICATIONS

Frequency Response: 40 to 15,000 Hz.

Impedance and Output Level:

30-50 ohms: -60.5 db (0 db = 1 milliwatt per

10 microbars); .043 millivolts/microbar.

150-250 ohms: -59 db (0 db = 1 milliwatt per

10 microbars); .105 millivolts/microbar.

High -57.5 db (0 db = 1 volt per microbar); 1.32 millivolts/microbar.

Cable:

20-foot, two-conductor shielded broadcast type.

Gradient **MODELS 315 • 315S**

Features frequency response of 50 to 12,000 Hz., which reproduces voice and music in a clear, natural tonal quality in auditoriums, night clubs, schools and churches. Bidirectional "Figure 8" pickup pattern extends over a broad frequency range—permits the sound system to be operated at a level almost 6 db higher than is possible with nondirectional (omnidirectional) microphones. Greatly reduces reverberation and the pickup of random noises—filters out the "FFF"-type noises.

Model 315 Gradient: Without "On-Off" Switch. **List Price: \$94.00**

Model 315S Gradient: With "On-Off" Switch. **List Price: \$96.00**

SPECIFICATIONS

Frequency Response: 50 to 12,000 Hz.

Impedance and Output Level:

30-50 ohm Impedance: -62 db (0 db = 1 milli-

watt per 10 microbars); .035 millivolts/microbar.

150-250 ohm Impedance: -61 db (0 db = 1

milliwatt per 10 microbars); .089 millivolts/micro-

bar.

High -58.5 db (0 db = 1 volt per microbar); 1.15 millivolts/microbar.

Cable:

15-foot, two-conductor shielded broadcast type.



**Model
330**



**Model
300**



**Model
315S**

Unidirectional Ceramic Cardioid Microphones

Uniplex **MODELS 245 • 245S**

This budget-priced series of ceramic microphones incorporate the same "Uniphase" system found in higher priced Shure unidirectional microphones. Lightweight, rugged and versatile, they can be used as a hand-held or stand-mounted unit.

Model 245 Uniplex: Without "On-Off" Switch. **List Price: \$37.00**

Model 245S Uniplex: With "On-Off" Switch. **List Price: \$39.00**

SPECIFICATIONS

Frequency Response: 50 to 7,000 Hz.

Impedance and Output Level: High

-59 db (0 db = 1 volt per microbar); 1.100 milli-

volts/microbar.

Cable: 15-foot, single conductor shielded.



**Model
245S**

Low Cost General Purpose Microphones

The COMMANDO Series (Controlled Magnetic)

MODELS 415 • 420 • 425 • 430

The Commando Series represent a significant achievement in providing quality performance at nominal cost—incorporating Shure's rugged, patented Controlled Magnetic cartridge in a dramatic-looking, versatile series of microphones. Suitable for indoor or outdoor use, these microphones feature high output, smooth response, extreme ruggedness and ability to withstand severe moisture and temperature conditions. Model 415 is high impedance only. Other models are dual impedance, with high or low impedance selection by simple pin-jack changing method.

Model 415 Commando: High impedance only. **List Price: \$29.00**

Model 420 Commando: Designed for lavalier use. **List Price: \$32.00**

Model 425 Commando: Designed for gooseneck mounting. **List Price: \$32.00**

Model 430 Commando: For hand or stand use. Detachable cable. **List Price: \$40.00**

SPECIFICATIONS

Frequency Response: 60 to 10,000 Hz.

Impedance and Output Level:

Model 415 is High Impedance. Models 420, 425, and 430 are dual.

High: -52 db (0 db = 1 volt per microbar); 2.510 millivolts/microbar.

Low: -52 db (0 db = 1 milliwatt per 10 microbars); .225 millivolts/microbar.

Cable:

Model 415—7-foot nondetachable single-conductor shielded.

Model 420—20-foot nondetachable two-conductor shielded.

Model 425—7-foot nondetachable two-conductor shielded.

Model 430—15-foot two-conductor shielded.



MODELS 215 • 715 Starlite (Ceramic and Crystal)

The Starlite is an attractively designed economy microphone for voice reproduction. Can be held in the hand, or used on a desk with built-in stand. Semi-directional, high impedance. Case is impact-resistant polystyrene. **Model 215 Starlite, List Price: \$8.00—Model 715 Starlite, List Price: \$9.00**

SPECIFICATIONS

Frequency Response:

Model 215 Ceramic, 50 to 8,000 Hz.

Model 715 Crystal, 50 to 10,000 Hz.

Impedance and Output Level: High.

Model 215: -56.5 db (0 = 1 volt per microbar);

1.480 millivolts/microbar.

Model 715: -50 db (0 db = 1 volt per microbar);

3.150 millivolts/microbar.

Cable:

5-foot fabric covered single-conductor shielded.



MODELS 777 • 777S Slim-X

This rugged omnidirectional microphone weighs only 6 ounces and features a "Metal Seal" crystal for long operating life under adverse conditions of heat and humidity. Ideal for use by lecturers, announcers, instructors. Model 777S has an "On-Off" switch. A lavalier cord and stand adapter is included with both models.

Model 777: Without "On-Off" Switch. **List Price: \$27.00**

Model 777S: With "On-Off" Switch. **List Price: \$29.00**

SPECIFICATIONS

Frequency Response: 60 to 10,000 Hz.

Impedance and Output Level:

High: -62 db (0 db = 1 volt per microbar); .790

millivolts/microbar.

Cable:

7-foot detachable single-conductor shielded.



MODELS 510C • 510S • 710A • 710S

Hercules and Rex

Low in cost, these high impedance microphones are ideal for home recording, amateur radio, and budget public-address applications, and are designed for use in the hand as well as secure placement on desk or table. In addition, they include stand adapters having 3/8 inch —27 thread which fit the conventional floor or table stands. Models 510S and 710S feature an "On-Off" switch.

The "Hercules" Models 510C and 510S are rugged Controlled Magnetic types, while the "Rex" Models 710A and 710S have crystal elements. **List Prices: Model 510C \$18.00; Model 510S \$20.00; Model 710A \$13.00; Model 710S \$15.00**

SPECIFICATIONS

Frequency Response:

Models 510C and 510S—100 to 7,000 Hz.

Models 710A and 710S—60 to 9,000 Hz.

Impedance and Output Level: High.

Models 510C and 510S: -52.5 db (0 db = 1 volt

per microbar); 2.38 millivolts/microbar.

Models 710A and 710S: -50 db (0 db = 1 volt per microbar); 3.150 millivolts/microbar.

Cable:

7-foot single-conductor shielded.



Model 510C

Microphone Accessories

SHURE

MICROPHONE STANDS FOR EVERY APPLICATION

Model S33B Modern Desk Stand. Black finish. For use with Microphone Models 330, 415, 430, 533, 545, 546, 548, 556S, 566, 571, 576, 578, 579, 580, 585, and 588. **List Price: \$16.00**

Model S38B Round Stand. Black finish. For use with Models 245, 275, 415, 430, 515, 533, 545, 546, 548, 565, 566, 575, 579, 580, 585, 588, and the 777 series. **List Price: \$5.00**

Model S39A Vibration-Isolation Stand. For all applications where vibration is a problem. Fits all Shure microphones. **List Price: \$26.00**



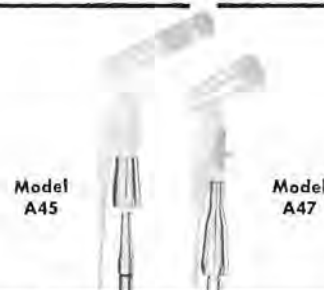
QUICK DISCONNECT ISOLATION UNITS

Designed for use with microphones normally mounted on desk or floor stands but which are periodically removed from stand for hand-held or carry-around use. The molded rubber insert isolates the microphone from mechanical vibration.

Model A45. Designed for microphones incorporating an isolation assembly such as Models 330, 546, 556, and all others using an A25B Swivel Adapter. Satin Aluminum finish. **List Price: \$13.00**

Model A45B. Same as A45, but Black finish. **List Price: \$13.00**

Model A47. Designed for microphones with connectors such as Models 55S, 545S, 565S, etc., or nearly all microphones with a standard $\frac{3}{8}$ " -27 thread. **List Price: \$13.00**



MICROPHONE SWITCHES

Easily attached to any cable connector type microphone. On-Off press-to-talk switches.

Model A83B: Rotary type On-Off Switch. **List Price: \$12.00**

Model A84B: Momentary press-to-talk On-Off Switch. **List Price: \$12.00**



MICROPHONE WINDSCREEN MODEL A2WS

Designed to effectively minimize wind noise in outdoor locations and control explosive breath sounds in any location. For Models 544, 545, 545S, 545L, 546, 547, 576, and 578. **List Price: \$7.00**



CABLE TYPE TRANSFORMER MODEL A95A

A high quality transformer which makes it possible to connect a low impedance microphone to a high impedance amplifier input. Solves problem of excessive high frequency loss and objectionable hum when long lengths of cable are used.

Model A95A. Cannon XL-3-12 type input and Amphenol MCIM type output plugs installed. Mating connectors supplied. **List Price: \$19.00**

Model A95P. Cannon XL-3-12 type input with mating connector supplied. High impedance output terminates in permanently attached phone plug with locking ring. **List Price: \$21.00**



MICROPHONE REPLACEMENT CARTRIDGES

Model No.	Description	List Price
R15	Dynamic for Unidyne B Models 515SA, 515SB.	\$18.00
R33	Dynamic for Spher-O-Dyne Models 533SA, 533SB, 533SAV.	21.00
R45	Dynamic for Unidyne III Models 544, 545, 545S, 546, 547.	39.00
R48	Dynamic for Unidyne IV Models 548, 548S, 549.	42.00
R50	Dynamic for Models 540 (series III), 540S (series III), 560, 561, 575S, 575SB, 579SB.	16.00
R55	Dynamic for Unidyne II Models 55S, 55SW.	32.00
R58	Dynamic for Models 580SA, 580SB.	24.00
R65	Dynamic for Unisphere I Models 565, 565S, 566.	42.00
R85	Dynamic for Unisphere A Models 585SA, 585SB, 585SAV, 585SBV.	26.00



SWIVEL ADAPTERS

Model A25B. (Black) To be used with Models 415, 430, 515, 545, 548, 565, 580, 585, and 588 microphones —For use with standard desk or floor stand.

List Price: \$6.00

Model A57S. Slip-in Swivel Adapter for Models 570, 576, 578 and 579. $\frac{3}{4}$ " diameter Dynamic Microphones —For use with standard desk or floor stand.

List Price: \$7.00

Model A57R. Slip-in Swivel Adapter for Model 571.

List Price: \$7.00



Model A25B

SHURE

Microphone Mixers

Standard • Professional • Reverberation

MODELS M68 • M68FC • M68P • M68RM



Model M68 Mixer

Shure Microphone Mixers are a practical, efficient and economical way of increasing the efficiency, usefulness and flexibility of public-address and paging systems, or tape recorders using more than one microphone or other sound source. (One prime example: extra microphones can be placed in the audience for question and answer sessions.) These new mixers are unique in that they satisfy the requirements of most sound system installations and serious tape recording enthusiasts, while being light enough to be portable, simple to operate and modest in cost. Each microphone (or other sound source) can be independently balanced for volume without affecting any of the other inputs. In addition to independent volume controls, a master volume control simultaneously controls the gain of all inputs. The M68 can therefore be used as a conveniently-at-hand sound system volume control in situations where the regular amplifier is located some distance away.

Type: Transistorized

Frequency Response: 30 to 20,000 Hz.

Power Consumption: 3 watts.

Microphone Inputs: Accept Dynamic or Ribbon microphones (not recommended for crystal or ceramic microphones), either high or low impedance (balanced or unbalanced) (Model M68P High Impedance only). Input impedance for each microphone is selected by a slide switch. You can use one type or model microphone, or mix several types and impedances.

Auxiliary Input: High level—accepts tape recorder, phonograph or tuner signal.

Model M68 Mixer. Input connections are MALE Cannon XL-3-14 type. (Uses XL-3-11C type Mate.) **List Price: \$131.00**

Model M68FC Mixer. Input connections are FEMALE Cannon XL-3-13 type. (Uses XL-3-12C type Mate.) **List Price: \$142.00**

Model M68-2 Mixer. Same as M68, but for 105-130 Volts AC, 50/60 Hz or 210-240 Volts AC, 50/60 Hz. 2 Conductor Cable. **List Price: \$134.00**

Model M68-2E Mixer. Same as M68-2 except for 210-240 Volts AC-50/60 Hz only with 3 Conductor Cable. **List Price: \$134.00**

Model M68FC-2E Mixer. Same as M68FC, but for 210-240 Volts AC, 50/60 Hz. with 3 Conductor Cable. **List Price: \$144.00**

Model M68P Mixer. Input connections are phone plug (Hi-Impedance only). 105-130 Volts AC 50/60 Hz. **List Price: \$105.00**

Model M68P - 2E. Same as M68P, but for 210-240 Volts AC, 50/60 Hz, with 3 Conductor Cable. **List Price: \$108.00**

REVERBERATION MIXERS

Model M68RM. 4-channel Reverberation Mixer. Female Cannon Type connectors. 105-130 Volts AC, 50/60 Hz. **List Price: \$180.00**

Model M68RM-2E. Same as M68RM but for 210-240 Volts AC, 50/60 Hz. 3 Conductor Cable. **List Price: \$185.00**

SPECIFICATIONS FOR ABOVE MIXERS

Controls: Four individual Microphone Volume Controls to raise or lower the level of sound from each microphone, or to cut microphones in and out at will. Auxiliary Input Volume Control controls sound level of tape recorder, phonograph, or tuner. Master Volume Control simultaneously adjusts the volume of all five inputs. Also, On-Off switch and Pilot Light.

Outputs: Two outputs: one provides high or low impedance output for connection to the microphone input of a sound system amplifier or tape recorder. Impedance is selected by switch. The other provides a high impedance, high level output designed primarily to feed a power amplifier or tape recorder requiring 0.5 to 2 volts.

Case Dimensions: 2 5/8" high, 11 3/4" wide, 5 1/4" deep. (M68RM 7 1/4" deep).

UL and CSA Approval. On models M68, M68FC, M68P, and M68RM only.

MODEL M67 Professional Microphone Mixer



A compact, lightweight and economical microphone mixer/remote amplifier specifically designed for professional recording and sound reinforcement studio and remote broadcasting. Provides four low-impedance balanced microphone inputs and one line input. The excellent performance and versatility of the M67 make it ideal for use as a complete, compact console for studio, remote, or original installation use—and as an "add-on" mixer for expanding existing facilities and providing additional microphone inputs with tape recorders and VTR's. Built-in tone oscillator provides calibration signal to balance signal levels.

The M67 features line and microphone level outputs; an illuminated VU meter calibrated for +4 and +10 dbm out; extremely low noise and RF susceptibility; wide, flat frequency response; two-level headphone monitor jack. AC or battery operation (see battery pack and other accessories on following page). Noiseless automatic switchover to battery if AC line fails.

Model M67. For 105-130 Volts AC, 50/60 Hz. **List Price: \$257.00**

Model M67-2E. For 210-240 Volts AC, 50/60 Hz with 3 Conductor Cable. **List Price: \$263.00**



M67 SPECIFICATIONS

Frequency Response: ± 2 db from 20 to 20,000 Hz.

Gain: 90 db; 150 ohm microphone into 600 ohm line.

Equivalent Input Noise: —125 dbv, 20 to 20,000 Hz;
—129 dbv, 300 to 20,000 Hz.

Hum and Noise: —125 dbv maximum Equivalent input hum and noise, 20 to 20,000 Hz, at 90 db gain; —129 dbv maximum noise 300-20,000 Hz, at 90 db gain.

Distortion: Under 1% from 20 to 20,000 Hz, at +10 dbm output, 0.5% typical.

Power Consumption: 3 watts.

Inputs: Four low-impedance microphones; one line, bridging or 600 ohms.
Outputs and Levels: 600 ohm line output, +18 dbm max; lo-impedance microphone output, —44 dbv max, Headphone output for 600-2000 ohm headphones.

Size and Weight: 2 5/8" x 11 3/4" x 7 1/2"; 4 lbs., 3 oz.

Operating Temperature: 0° to 135° F.

UL and CSA Approval: on Model M67 only.

Audio Control Center, Level Controller, Accessories

SHURE



A new concept in economical, total control of audio response. Can be used to equalize sound systems, correct room acoustics, reduce feedback, provide special sound effects, reduce stage and stand noise—or for tape recording. Ideal as a low-cost audio controller when teamed-up with M68 series or M67 mixers... gives you more inputs, output modes, and response control than any other system on the market.

Efficient, continuously variable high-pass and low-pass 6 db-per-octave filters, plus separate bass and treble controls, can be combined for virtually

MODEL M63 Audio Control Center



unlimited response characteristics as a resultant of "hinge" effect of bass and treble controls, and "slope" effect of high and low filters.

Ballistically correct VU meter for true VU readings. 5 outputs: high impedance high level, high impedance mic level, low impedance mic level, 600-ohm balanced line, headphone. 2 inputs, accept signals from microphone, mixer, tape recorder, or tuner. UL approved for use in Commercial applications. Only 11 $\frac{3}{8}$ " x 6" x 2 $\frac{1}{4}$ ", 3 Lbs. 2 oz. **Write for complete specifications.**
List Price: \$150.00

MODEL M62 LEVEL-LOC Audio Level Controller



- PREVENTS "CLOSE-UP" BLASTING
- PREVENTS FADEOUT CAUSED BY "BOBBING & WEAVING" AMATEUR SPEAKERS
- PREVENTS "ROLLER-COASTER" SOUND LEVEL CAUSED BY DIFFERENT VOICES
- PREVENTS EAR-SPLITTING FEEDBACK BUILD-UP

With the Level-Loc Distance Selector Switch, you create a 6", 12", or 18" diameter "Sound Control Zone" in front of the microphone. Outside the Sound Control Zone, the microphone acts normally—but when a speaker gets within this zone, his voice level is evenly modulated so that close-up blasting and "roller-coaster" sound is eliminated. A separate "On-Off" switch enables you to bypass the Level-Loc when desirable.

The Level-Loc keeps electrical output from a microphone constant, even though the input signal varies considerably. It is a transistorized, variable-gain amplifier which cannot increase the strength of a signal, but when very large signals are applied, it can reduce this signal virtually instantly by as much as 100 times **without significant distortion!** Can be powered by self contained battery. M68 mixers, or auxiliary D.C. power supply.
List Price: \$95.00

SPECIFICATIONS

Frequency Response: Flat 20 to 20,000 Hz. \pm 2 db.

Input impedance: High—100 K ohms; Low—500 ohms.

Output Impedance: High—less than 500 ohms; Low—less than 10 ohms.

Compression Action: 40 db change in input level gives approximately 6 db change in output level.

Distortion: 3% maximum.

Size and Weight: 2 $\frac{3}{8}$ " x 11 $\frac{3}{8}$ " x 5 $\frac{1}{4}$ " 2 lbs., 2 oz.

Accessories for M68 Series, M67 Mixers, M63 Audio Master, M62 Level-Loc



AC68 Attache Carrying Case—Handsome slim-line vinyl leatherette attache case holds mixer, microphones, cables. 3 $\frac{3}{8}$ " x 18 $\frac{3}{8}$ " x 11 $\frac{1}{8}$ ". Fits M68 Series, M63 and M62. **List Price: \$39.00**

AC60 Carrying Case: For M63, M67, M62 or M68 Series. **List Price: \$39.00**

A68B Battery Power Supply—Eliminates need for 115 V., A.C. hookup. Supplied less U20 type (30 V., D.C.) battery. Use with M68 Series. **List Price: \$11.00**

A67B Battery Power Supply for M67 Mixer or M63 Audio Master. May be used as sole power source. On the M67 it may also be used as standby during AC operations providing noiseless switch-over in case of AC failure. **List Price: \$22.00**

A68C Output Cable Kit—enables you to connect any of the electronic products above to virtually any P.A. system or amplifier. Includes cables and adapters for Hubbel, Amphenol MC1 type and standard phone plug inputs. **List Price: \$26.00**

A68P Phono Preamp—Converts the Auxiliary input channel to a magnetic or ceramic phono-graph input. Built-in scratch filter has On-Off switch. Takes its power directly from the mixer. Use with M68 Series. May be used with the M67



by replacing the Phono Plug with a Male 3 pin Cannon Type Connector. **List Price: \$26.00**

A68S Stacking Kit—Enables you to conveniently interconnect and stack 2 Units—with 2 M68's you get 8 microphone inputs and 1 Auxiliary input. With 2 kits you can stack three Units—say 2 M68's and 1 M63. A single master volume control handles the entire matrix. Includes brackets, interconnecting cable. Fits M68 series, M67, M62, M63. **List Price: \$5.00**

A68SC Interconnecting Cable Only—Enables you to interconnect mixers as above, but without stacking brackets. Use with M68 Series, M63 and M67. **List Price: \$1.25**

A68L Locking Panel—Fastens over controls, locks in place with padlock (provided). Prevents tampering. Fits all products above. **List Price: \$9.00**

Mount It In A Standard Rack Panel.

A68R Rack Panel Kit—Standard 19" x 3 $\frac{1}{2}$ " audio equipment rack panel for use with the M68. Gray Hammertone finish. Fits all products above. **List Price: \$13.00**

GOLD MICROPHONES

Feature Gold finish on metal cases and grille. Specifications are identical to standard models.

Model No.	Description	Specifications To Be Found On:	List Price	Model No.	Description	Specifications To Be Found On:	List Price
545S Gold	Unidyne III	Page 5	\$104.00	55SW Gold	Unidyne II	Page 6	\$ 99.00
545 Gold	Unidyne III	Page 5	99.00	565 Gold	Unisphere I	Page 7	110.00
545L Gold	Unidyne III	Page 5	84.00	585SA Gold	Unisphere A	Page 7	78.00
555 Gold	Unidyne II	Page 6	97.00	550S Gold	Probe	Page 9	82.00

MICROPHONES WITH ATTACHED PLUGS

Identical in specifications to standard models, but with the added feature of a special prewired plug and connector assembly which can be used as an MC1F, an MC1M, or a phone plug.

Model No.	Description	Specifications To Be Found On:	List Price	Model No.	Description	Specifications To Be Found On:	List Price
545SC	Unidyne III	Page 5	\$ 96.00	578C	Omnidyne	Page 8	\$ 89.00
545C	Unidyne III	Page 5	91.00	560C	Lavalier	Page 9	47.00
555WC	Unidyne II	Page 6	91.00	550SC	Probe-Dynamic	Page 9	74.00
580SAC	Unidyne A	Page 6	64.00	540SC	Sonodyne II	Page 10	54.00
5155AC	Unidyne B	Page 6	44.00	51SC	Sonodyne	Page 10	56.00
565C	Unisphere I	Page 7	102.00	533SAC	Spher-O-Dyne	Page 10	55.00
5655C	Unisphere I	Page 7	107.00	533SAVC	Spher-O-Dyne	Page 10	62.00
585SAC	Unisphere A	Page 7	70.00	575SC	Versadyne	Page 10	27.00
585SAVC	Unisphere A	Page 7	78.00	2755C	Versoplex	Page 10	18.00
588SAC	Unisphere B	Page 7	62.00	2455C	Uniplex	Page 11	41.00

MATCHED PAIR MICROPHONES

For stereo recording, matched pair microphones are available at no additional cost. These microphones are identical to standard microphones except they are matched to a plus or minus 1 db in level and 1% db in frequency response.

Model No.	Description	Specifications To Be Found On:	List Price Per Pair	Model No.	Description	Specifications To Be Found On:	List Price Per Pair
548M	Unidyne IV	Page 5	\$210.00	580SBM	Unidyne A	Page 6	\$124.00
5485M	Unidyne IV	Page 5	220.00	566M	Unisphere I	Page 7	294.00
546M	Unidyne III	Page 5	284.00	565M	Unisphere I	Page 7	200.00
5455M	Unidyne III	Page 5	188.00	5655M	Unisphere I	Page 7	210.00
5455M Gold	Unidyne III	Page 5	208.00	585SAM	Unisphere A	Page 7	136.00
545M	Unidyne III	Page 5	178.00	576M	Omnidyne	Page 8	368.00
545M Gold	Unidyne III	Page 5	198.00	578M	Omnidyne	Page 8	174.00
544M	Unidyne III	Page 5	168.00	5785M	Omnidyne	Page 8	190.00
544M-G6	Unidyne III	Page 5	174.00	5505M	Probe-Dynamic	Page 9	144.00
544M-G12	Unidyne III	Page 5	176.00	5505M Gold	Probe-Dynamic	Page 9	164.00
544M-G18	Unidyne III	Page 5	178.00	330M	Uni-Ron	Page 11	252.00
555M	Unidyne II	Page 6	174.00	300M	Studio Gradient	Page 11	316.00
555WM	Unidyne II	Page 6	178.00	315M	Gradient	Page 11	188.00
5565M	Unidyne II	Page 6	284.00	3155M	Gradient	Page 11	192.00
580SA-MP	Unidyne A*	Page 6	124.00				

*With plugs attached to fit most tape recorders.

MICROPHONE CASES



These black plastic impact-proof microphone carrying cases are ideal for carrying the microphone, cable and accessories from place to place, conveniently and safely. The foam inserts hold the contents securely.

Model No.	Designed to Fit	List Price
AC54	Model 545, 548 Type Microphones	\$11.00
AC54S	Model 545S, 548S Type Microphones	11.00
AC55	Model 55S, 55SW Type Microphones	11.00
AC56	Model 56S, 58S, 533, 588 Type Microphones	11.00
AC56S	Model 565S Type Microphones	11.00
AC57	Model 576, 578 Type Microphones	11.00
AC58	Model 51S, 580 Type Microphones	11.00