SHURE®

THE SOUND OF THE PROFESSIONALS®... WORLDWIDE



Microphone and Circuitry Products

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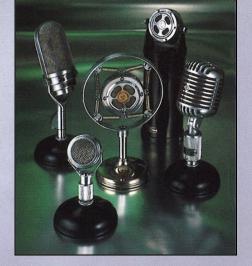
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SHURE

hat does "Shure" mean to you?

If you have an active interest in any sector of the audio world, chances are you respond favorably to the word "Shure." Whether you're involved with musical performance, recording, sound reinforcement, broadcasting, or film/video production, "Shure" represents clear, natural sound reproduction, practical design features, and complete dependability.

There's a good reason why the word "Shure" means so much to so many. Since we started in business back in 1925, we have never strayed from our emphasis on quality, a commitment we believe to be unsurpassed by any other company.

To us, quality is not an empty catchword in advertising copy. It's a very specific concept with very specific definitions. In our Total Quality Program, the **Pursuit of Excellence**, we are committed to continuously evaluating and improving every process in our company. Among other things, Shure quality means innovation and thoroughness in design, uniformity and consistency in manufacturing, precision and accuracy in performance, and ruggedness and reliability in "real world" usage.

About that ruggedness: when we talk of Shure quality, we can back it up with the most stringent quality assurance testing program in the business. Before it can bear the Shure name, a microphone must be able to withstand extended exposure to extremes in temperature (-20°F to 165°F) and humidity (100% at room temperature, 93% at 100°F), ultraviolet rays, salt spray, alcohol, sand, water, violent vibrations, shipping tests, "drop tests" (repeated drops from six feet onto hardwood floors), and ten torturous days of repeated cycling between simulated arctic and tropical environments. If a microphone doesn't work after all this, it's not a Shure.

This kind of dedication to outstanding sound and reliability has made Shure "The Sound of the Professionals"... Worldwide" for decades. Shure microphones are used virtually everywhere—on stages, lecterns, remote broadcast locations, and production sets all over the world.

This catalog will introduce you to a great many products that share "Shure quality." In these pages you'll find the industry's widest variety of microphones for all applications.

You'll also find our acclaimed "FP" Series and "M" Series circuitry products, plus such Shure "specialty audio" products as the Audiomaster® Sound Reinforcement System, the Shure Automatic Microphone System, and Shure Wireless Microphone Systems. Specifications and technical information can be found in the gatefold section at the end of the catalog.

We hope you'll find this catalog to be useful and informative. We're confident that the products presented here will provide you with years of the best possible service, no matter what your involvement with audio may be. After all, we believe in our commitment to quality the same way you believe in yours.

y xoge

James H. Kogen PRESIDENT



SM5

The unsurpassed first choice of professional performers around the globe, the SM58 is a genuine world standard and a true audio legend. Although the "58" is often imitated in appearance, its lively, intelligible, powerful sound and rugged reliability have never been duplicated. Makes rock, r&b, pop, and country vocals sound their best.

SM58-LC (less cable) SM58-CN (with cable)

SM58S-LC (with switch, less cable)

565

UNISPHERE I* 565 Series models are the world's most relied-upon microphones for sound reinforcement applications, providing excellent voice reproduction on lecterns, stages, and in church and school applications. Dual-impedance available with or without on/off switch.

5650-tC (less cable) 56550-CN (with on/off switch and cable) 56550-tC (with on/off switch, less cable)

Back in the 1930s, Shure

literally invented the unidirectional dynamic vocal microphone. Now, some
60 years later, Shure dynamics are the most widely-used, widely-recognized, and widely-copied microphones in the world—and for good reason. Shure's much-imitated rising presence characteristic provides the distinctive "Shure sound," giving voices the ability to "cut through" the background and deliver crisp, detailed performance with maximum power and punch. The unidirectional polar patterns stay exceptionally uniform at all frequencies, providing unmatched gain-before-feedback capability. All models feature a built-in spherical windscreen/pop filter for noise-free use. And their roadworthy

ruggedness is legendary.
Shure dynamic vocal microphones have truly left a distinctive stamp on the sound of contemporary music. And there's a model for every budget.

SM78

A compact and stylish alternative to the SM58, the SM78 combines the great "Shure sound" with an attractive, low-gloss, ebony finish and lighter weight. A great choice for jazz and pop singers.

SM78EB-LC (less cable)



SM48

Perfect for singers on the way up. Includes many of the outstanding performance features of the SM58—with similar appearance, sound, and ruggedness—at a very affordable price.

SM48-LC (less cable) SM48S-LC (with switch, less cable)



The time-proven versatility and economy champ for general sound reinforcement. Switch selectable dual-impedance design, with locking or/off switch.

588SD-LC (less cable)

587SB

Excellent sound and an attractive price make the 587 a popular choice for a variety of applications, including musical performance, sound reinforcement, and recording With locking or/off switch.

587SB-LC (less cable)



A perfect choice for vocal applications where cost is a major consideration but quality can't be compromised. Includes on/off switch, built-in wind and pop filter. Smooth response with slight presence rise and low-end rolloff makes it excellent for speaking voices as well as singers. Cardioid pattern. Battery or phantom power





SM96

Top performance features at a moderate price. Especially well-suited for high-quality home recording applications Three-stage wind/pop filter; battery or phantom power: cardioid pattern

SM96-LC (less cable)



Lou Reed

For vocalists who want extra brightness and punch from a microphone, the SM85's pronounced presence boost makes it an extremely popular choice, especially for TV and video production. Uniform cardioid polar pattern; 3-stage wind/pop filter; phantom power only.

SM85-LC (less cable)

SM87

The condenser choice of the world's top entertainers, the SM87 features a smooth frequency response that's specially tailored for warm, rich vocal reproduction. Supercardioid polar pattern means maximum volume without feedback, plus excellent rejection of unwanted sounds. Three-stage wind/pop filter minimizes breath noise. Phantom power only.

SM87-LC (less cable)



Clarity, depth, precision and detail are the hallmarks of great condenser microphones. And an increasing number of vocalists are demanding the superbly natural sound quality only a Shure condenser can deliver.

The models shown here all represent significant breakthroughs in condenser microphone design. Shure was the first to overcome the fragility traditionally associated with condenser microphones—Shure condensers can handle every bit of the abuse that goes with extended touring. The exclusive 3-point elastomer space-frame shock mounts mean minimal handling noise. And Shure's advanced circuitry and unidirectional transducer designs are recognized by sound engineers everywhere.



When miking musical instruments and lecterns, professionals turn to Shure. They know that Shure microphones provide precise definition of instrumental timbres, accurate reproduction of speaking voices, uniform unidirectional polar responses, heavy-duty shock mounting, and total reliability.

Shure's wide variety of cardioid dynamic microphones are industry "workhorses" for both live and studio applications. And Shure's flat-response, probe-style condensers (page 5) combine remarkable engineering with excellent value.

SM77

A compact alternative to the SM57 with a non-reflective ebony finish and sparkling sound. An excellent choice for miking instrument amplifiers.

SM77EB-LC (less cable)

545

The 545 UNIDYNE® III's remarkably faithful response makes it a favorite choice for instrument pickup, lecterns, speakers, and entertainers. Dual-impedance for use with most sound equipment. Available with or without locking or/off switch.

545D-LC (less cable)
545SD-CN (with on/off switch and cable)
545SD-LC (with on/off switch, less cable)
545SH-LC (with on/off switch abuilt-in swivel mount)
545L (lavalier version with attached cable)

SM59

For applications that demand a flat frequency response, the SM59 is ideal. Patented mechano-pneumatic shock mount minimizes stand and handling noise. Smooth, natural reproduction of higher pitched voices and instruments.

SM59-LC (less cable)





515

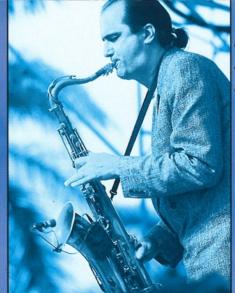
A low-cost, all-purpose performer. Two versions are available to meet a variety of sound reinforcement applications. Each includes a lockable on/off switch.

515SB (low-impedance, attached cable) 515SD-LC (dual-impedance, less cable) Shure's smallest handheld dynamic microphone is less than five inches long and weighs only four ounces, but it's a big performer in every way. Flat, uncolored response with a low-end rolloff to prevent boominess. Excellent wherever an unobtrusive cardioid microphone is a must—in council chambers, in conference rooms, on lecterns.

SM62-LC (less cable)

5





Michael Brecker

SM81 The crowning achievement of Shure microphone engineers, the unidirectional SM81 is one of the world's great studio microphones, providing the ultimate in precise, detailed sound reproduction. Excellent for miking all acoustic instruments, both in live performance and in the recording studio. A superior choice for choir and overhead cymbal miking. The SM81's ruler-flat response may be tailored with a built-in low-end rolloff switch. Built-in 10 dB attenuator. Phantom power only.

SM81-LC (less cable)
R104A Omnidirectional cartridge for SM81

SM94 A moderately-priced unidirectional microphone of exceptional quality. Perfect for recording, instrument and choir pickup on stage, and digital sampling. Well-suited for reproduction of stringed instruments, woodwinds and cymbals. Battery or phantom power.

SM94-LC (less cable)

849 The first microphone to make a "studio quality" unidirectional condenser available to users on a budget. A versatile performer that captures acoustic instruments and ensembles with excellent richness and detail. Or/off switch; battery or phantom power.

849-LC (less cable)

MINIATURE CONDENSERS

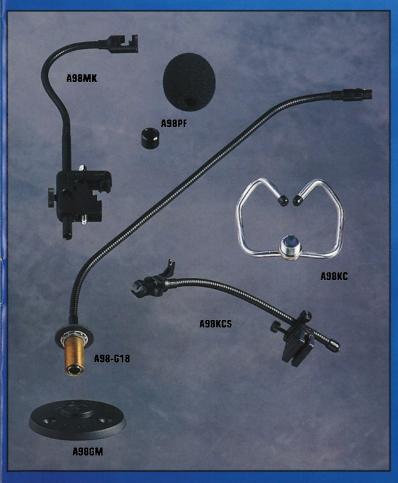
SM98A The SM98A is more than the world's finest miniature musical instrument microphone. It's a complete system with accessories that make it ideal for a wide range of applications. The SM98A displays an extremely uniform cardioid pickup pattern, a wide-range frequency response, and the ability to handle sound pressure levels up to 155 dB! It's an excellent choice for miking drums horns, and other acoustic instruments. Supplied with preamplifier, universal swivel adapter. A98SPM Supercardioid Polar Modifier (which quickly and easily changes the SM98A's polar pattern from cardioid to supercardioid), and foam windscreen. Phantom power only.

SM98A Accessories include the A98KCS (which mounts the SM98A to the belt of most bress or wind instruments), A98KC "Keen Clamps" (for mounting the SM98A on wind instruments), A98MK Drum Mount Kit (for mounting the SM98A on drums), A98 G18 18-Inch Gooseneck, A98GM Gooseneck Mounting Flange, and A98PF Pop Filter and Locking Collar Kit.

SM99 A miniature gooseneck-mount microphone for use on lecterns, pulpits, conference tables—anywhere a high-quality, unobtrusive gooseneck microphone is needed. The tight supercardioid pattern discriminates against sounds coming from the sides and rear of the microphone, resulting in plenty of volume *without* feedback, even in multiple microphone installations. Phantom power only

SM99-SE Side-exit cable.







microflex-



Taylor Dayne



The new Beta Series is the culmination of the most extensive microphone research and development project ever undertaken at Shure, resulting in significant advances in dynamic transducer design and microphone performance. These microphones offer outstanding sound quality with extraordinary gain-before-feedback, and they have been optimized within all measurable parameters, including frequency and polar response, sensitivity, handling noise, and, of course, legendary Shure ruggedness and reliability.

Series Wireless receivers, and exacting production standards are observed to ensure that all performance levels achieved by the L2/Beta 58 match those of its cabled counterpart. Except for its "Beta blue" finish, the transmitter portion of the L2/Beta 58 is equivalent to the Shure L2/58 and L2/96 Handheld Wireless Transmitters (opposite page).

The Beta Series microphones are the first to combine a true supercardioid polar pattern with the extra-hot output of a neodymium magnet. Many other microphones are claimed to have supercardioid or hypercardioid patterns, but actually maintain these patterns only at certain frequencies. The Beta pattern stays uniform at all usable frequencies, eliminating the peaky off-axis response that increases monitor feedback and adds coloration to the sound.

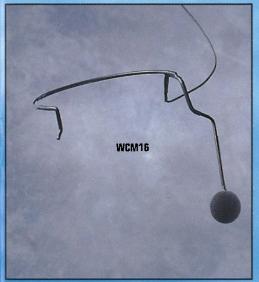
In addition, an advanced shock isolation system minimizes handling and stand noise, extra-rugged steel grilles resist denting for increased cartridge protection, and a humbucking coil is used to reduce lighting and power interference by over 20 dB.

The dependable result is high-output performance featuring the famous "Shure sound"—without feedback!













Shure L Series Wireless Microphone Systems are highly reliable and packed with professional features, yet their price makes them affordable even to users on a budget.

RECEIVERS

L4 Diversity Receiver Two independent RF sections and exclusive MARCADTM circuitry combine the two signals when both are usable, providing improved signal-to-noise ratio and outstending reception. Rack mounting hardware is supplied.

L3 Receiver The economical L3 incorporates a host of professional features for excellent performance and unmatched value. Removable, insulated ¼-wave whip antenna. Rack mountable with accessory kit.

Step-up 1/2 wave antenna and remote cable kit are available for both receivers.

L SERIES ACCESSORIES

WA300 Instrument Cable
WA310 Microphone Cable
WA330 TA4F Connector
WA360 Remote Audio Mute Switch
WA370 Swivel Adapter
WA380 V:-Wave Antenna
WA390 Rack Mount Kit
WA400 Antenna Distribution System
WA410 Output Cable
WA420 Antenna Cable
WA440 Antenna Rack Mount Kit
(See page 19 under Wireless Accessories for specifications.)

ADDITIONAL WIRELESS MICROPHONES

WCM16* Hypercardioid, head worn.
WL83 Premium omnidirectional lavalier.
WL84 Premium supercardioid lavalier.
WM98 Cardioid, miniature instrument.

TRANSMITTERS

L Series handheld transmitters feature outstanding audio quality, durable, lightweight, and compact construction, enclosed loop antennas, and easily interchangeable heads.

L2/58 Same performance as cabled SM58 (pg. 2). **L2/96** Same performance as cabled SM96 (pg. 3).

L11 Body-Pack Transmitter The L11's circuitry design and special shielding provide trouble-free performance with remarkable freedom from interference. The standard 4-pin TA4F connector lets you use the L11 for a variety of applications. Several wireless microphone choices are available, plus special adapter cables to permit use with electronic musical instruments and conventional microphones. Includes separate audio mute switch and battery indicator.

839W Lavalier Microphone A reliable, unobtrusive wireless lavalier microphone with excellent sound. Tie-bar mounting accessory, windscreen.

*A product of Countryman Associates.

SM89 A highly directional professional "shotgun" condenser microphone, specially designed for location film and TV production, theater sound reinforcement, and spot news coverage. The SM89 is the first shotgun microphone to overcome the problem of off-axis coloration. Thanks to its exclusive Accu-Port™ interference tube system—which eliminates the peaks and dips caused by the comb-filter characteristics of most shotgun mics—and its fine-tuned **SM89** frequency response, off-axis sound is much easier to control. Aircraft aluminum housing makes the SM89 30 to 40% lighter than other models and extremely easy to handle. The A89SM accessory shock mount virtually eliminates vibration pickup. All in all, the SM89 is the most natural sounding easy-to-use "shotgun" available. Carrying case included. (Standard RK257WS foam windscreen and optional A89SM accessory shock mount pictured below.) SM7 A fixture in studios around the world, the SM7 "smooth and silky" unidirectional SM7 is famous for making voices and other sources sound their best. Extremely popular for radio and television VP88 This single-point MS stereo condenser work, especially voice-over recording. Unique microphone is unique in its ability to capture all of graphic tailoring switches (for presence boost the realism and drama of "being there" while being and low-end rolloff) permit the choice of four able to withstand the punishment of daily use in different response curves. Yoke assembly

allows exact positioning. Acclaimed as one of

the finest dynamic microphones in use today

rigorous production environments.

The VP88 incorporates a forward-facing cardioid Mid capsule, a perpendicular bidirectional Side capsule and a built-in stereo matrix to provide wide, natural, uncolored response for optimal stereo imaging. Yet it is 100% mono compatible

Three switch-selectable levels of stereo effect control the degree of stereo "spread" and ambience pickup. A fourth switch position provides Mid and Side outputs directly. Also switch-selectable are phantom or 6-volt internal battery power and lowfrequency rolloff.

Mounting options are diverse with the use of various standard and optional accessories.

Suitable for use when smooth, extended response and excellent stereo imaging are required from a single microphone, such as in video production, electronic news gathering, sporting events coverage, sound reinforcement, live music recording, stereo sampling, drum overhead and ambient studio miking

VP88 ACCESSORIES

A88ZM Rycote Pistol Grip Suspension Shock Mount

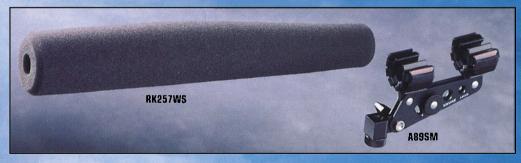
An effective shock mount/microphone suspension assembly and a form-fitted handle provide maximum comfort and stable mechanical isolation

A88ZP Rycote Zeppelin Windshield Completely surrounds the VP88 to create a dead air space around the microphone while diffusing threatening winds from the outside. The lightweight shield does not affect microphone response and mounts easily on the A88ZM.

A88WC Rycote Wool Cover Wind Muff Increases the effectiveness of the Zeppelin Windshield in high wind environments with no audible effect.

A88WJ Rycote Windjammer Furry surface provides maximum wind noise protection. For complete diffusion of very high winds, use the Windjammer and the Wool Cover Wind Muff.

A88SM Microphone Isolation Mount (See page 19 under Mounts and Adapters.) C110 25-Foot Microphone Extension Cable (See page 19 under Mic Cable Selection Guide.)









The Goodman Theater, Chicago

Surface-mount microphones have become increasingly popular because of their enhanced sensitivity and low-profile appearance. They can solve application problems requiring distant pickup, such as on a stage floor or in the center of a conference table. When surface miking is called for, Shure offers a complete range of models to choose from. Shure surface-mount microphones are frequently requested, because we build them without forgetting that exacting audio performance is your foremost consideration.

SM18 A favorite in churches and meeting rooms, the SM18 dynamic is low in cost, good-sounding, and amazingly unobtrusive. Brown foam casing blends with wood grain surfaces. (White foam available through Shure Service Department.)

SM18B-CN (brown, attached cable)

819 For applications where price is a consideration, the unidirectional 819 condenser offers an excellent, economical alternative to the SM91A. Wide-range frequency response, super durability. Great for general sound reinforcement applications in churches, schools, on stages, etc. Single 9-volt battery or phantom power.

809 (not shown) The omnidirectional version of the 819. Same extraordinary features and performance. Useful when large area must be covered by one microphone and feedback is not a problem.

SM91A The world's first unidirectional surface-mount microphone has yet to be surpassed, thanks to the SM91A's exceptional condenser transducer element and excellent preamplification system. A world-class microphone that's rugged enough for any application. Ideal for TV settings, news conferences, dramatic productions, stages ... wherever inconspicuous microphone placement is desired. Also excellent for miking kick drums and acoustic pianos. Preamp includes switchable low-cut filter and 10dB gain. Phantom power only.

SM90A (not shown) An omnidirectional version of

SM102 A highly sensitive miniature unidirectional condenser designed for distant pickup. Flat, extended frequency response provides highly natural audio quality with minimum off-axis coloration. Available in black or white to minimize visibility, with a flexible gooseneck for precise positioning when suspended from overhead. In-line cylindrical preamplifier features low-cut and 10dB gain switches. Ideal for overhead miking of choirs dramatic productions, musical ensembles and solo instruments—indoors or out. Siender 30-foot attached cable: windscreen supplied.

SM102B Black finish, in-line cylindrical preamplifier with mounting bracket.

SM102W White finish, preamp as above SM102PB Black finish, wall plate preamplifier fits in standard electrical box.

SM102PW White finish, preamp as above.

Broadcasting, sound reinforcement, film and video production ... Shure has a high-performance lavalier microphone for every requirement. Shure lavalier microphones are engineered for maximum voice intelligibility, unobtrusive appearance, dependability, and complete serviceability.

SM83 Shure's professional omnidirectional condenser lavalier microphone features an electronically shaped frequency response dip at 730 Hz that minimizes the "chest resonance" phenomenon. Innovative patented accessories for unobtrusive mounting are provided, including a 4-way tie bar, double-mic tie bar, two multi-purpose mounting blocks, and foam windscreen. Side-exit cable minimizes handling noise and is easy to conceal. Compact, lightweight belt-pack preamp operates on standard 9-volt battery or phantom power.

SM84 The great features, performance, and accessories of the SM83, yet with a supercardioid polar pattern. Provides excellent rejection of unwanted sounds and minimizes PA system feedback.

839 A low-priced alternative to the SM83. Lavalier microphone with excellent sound and reliability. Low distortion and RF susceptibility. Windscreen, 4-way tie bar mount. Omnidirectional. Battery or phantom power.

570S This versatile performer can serve as either a lavalier or a small hand-held microphone. Widely used by lecturers, moderators, panelists, and clergy. Omnidirectional, dynamic; includes or/off switch, lanyard-style lavalier assembly, and 30-foot cable supplied without connector.

SM11 For those who need a dynamic lavalier microphone, the SM11 is the smallest model available. Shure ruggedness and dependability in a microphone no longer than a paper clip. Comes with tie tack and tie bar mounting accessories. Omnidirectional.

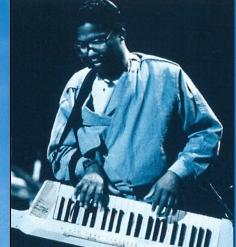
SM11-CN (with attached cable) **RK279** Mounting kit to adapt the SM11 to instrument miking applications.











Herbie Hancock

When it comes to head-worn microphones, Shure offers a wide selection with superior sound and user comfort. From broadcasting to sound reinforcement to computer voice recognition, Shure head-worn microphones are consistent hands-free performers ... and the professionals' choice. All models include cables and removable foam windscreens.

SM2 A professional headset with a close-talking dynamic cardioid microphone and dual-ear headphones for mono or stereo operation. Microphone element designed for excellent rejection of noise and unwanted sounds, Ideal for TV radio, film, video, and other applications. Large pillow-soft ear pads for external noise isolation, double-braced, covered metal headband for security; cable supplied without connectors.

512 The great SM10A microphone element mounted on a lightweight headband with a single "open air" sarphone monitor. Easy to adjust Excellent for economy-minded performers who like to twist and turn: also ideal for voice recognition applications.

SM10A The favorite of singing drummers, keyboardists, and guitarists who want complete freedom of movement on stage. Adjustable close-talking dynamic microphone element provides excellent isolation and minimal feedback problems.

SM10A-CN (with attached cable)

SM12A Same features and performance as the the SM10A, but with one earphone monitor.

SM12A-CN (with attached cable)



When pickup of sound from all directions or freedom from proximity effect is desirable—and feedback is not a problem—an omnidirectional microphone is an excellent choice. Shure omnis are unmatched in versatility and performance.

\$M631. An extra long (9 ½%), streamlined handle makes the \$M63L an exceptional microphone for interviews and electronic newsgathering, wherever extra "reach" is needed. Effective wind and pop filter, durable VERAFLEX* grille. Extra-high output—up to 6 dB higher than comparable competitive dynamic microphones.

SM63L-LC (less cable)

SM63 Same as SM63L but more compact (handle is 31/2" shorter). Rugged and lightweight.

SM63-LC (less cable)

VP64 A sleek, ergonomic design and an extra-high energy noedymium magnet make the VP64 the perfect choice for electronic news gathering and video production. The upper midrange presence rise adds clarity to speech, while the low-end rolloff minimizes boominess and background noise. Handsome oncamera appearance, consistent audio quality on or off axis, high output, low noise, effective shock isolation and extremely rugged construction. Windscreen and swivel adapter supplied.

579SB A slim, rugged, natural sounding omnithat's ideal for all kinds of applications, especially recordings that take advantage of natural room reverberation. Great for recording board meetings and conferences. Includes lockable or/off switch.

579SB-LC (less cable)

Shure products are famous for becoming standards of the audio industry, and the longevity of some models has caused them to be known as classics. The current versions of these classic models still meet today's demanding performance requirements.

55SH Series II A technically contemporary microphone with a classic appearance, the 55SH Series II is perfect for performers who want the look and feel of the '50s and '60s. The same appearance as Shure's famous 55 Series UNIDYNE* II microphones, but with the latest in dynamic transducers inside.

520D A legend in the music business, the 520D "Green Bullet" is the only authentic choice of blues harmonica players who want the funky, down-home sound associated with Little Walter, Sonny Boy Williamson, Walter Horton, Sugar Blue, and other "Chicago-style" harp masters. Dual-impedance; supplied without connector.

President Harry S. Truman







The Shure Automatic Microphone System consists of dedicated microphones and mixers that function exclusively together. AMS solves the many problems of multi-microphone applications. It is used in thousands of systems worldwide such as those found in boardrooms, legislative chambers, senates, city halls, conference rooms, courtrooms, churches, broadcast studios, and the fast-growing interactive classroom environment.

Shure's patented Automatic Microphone System provides unique direction-sensitive gating by continually "reading" and comparing the separate audio signals provided by two matched unidirectional capsules placed back-to-back in each AMS microphone. AMS microphones are activated only when addressed within a 120° acceptance angle. No threshold or sensitivity adjustments are necessary.

The AMS 4000/8000 incorporates a full complement of logic terminals to provide functions such as LED indicators, mute switches, loudspeaker attenuation, chairman override, etc.

AMS mixers can be linked together to control up to 200 AMS microphones.

MICROPHONES

AMS26 Probe style, dark bronze.

AMS24 15" gooseneck mic with attached 20' cable

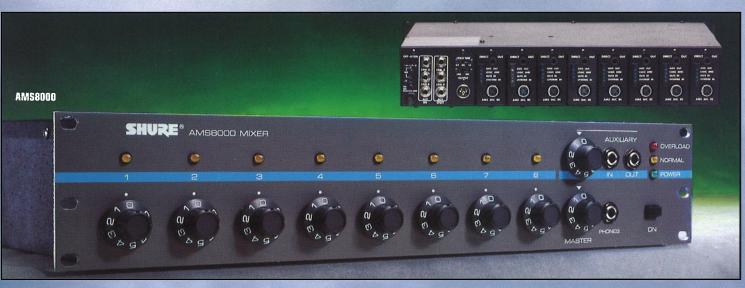
AMS28 For hanging mount or lavalier use.

AMS22 Low profile, attached 20' cable/connector

CIRCUITRY

AMS4000/8000 Four or eight channel versions, respectively, of AMS mixer. AMS4000 can be expanded to provide up to eight channels. 120/240 Vac. Rack mountable.

AMS880 (not pictured) Video Switcher Interface. Tells a video switcher which camera to call up based on which AMS microphone is activated.





FP410 The world's first portable automatic mixer By automatically keeping unused microphones turned down, the FP410 dramatically improves audio quality and provides a "seamless" mix. Minimizing the number of open microphones provides greater gain before feedback, reduces the pickup of ambient noise and reverberation, and virtually eliminates comb filtering effects. Shure IntelliMix the patented operational concept behind the FP410 is manifested in three key features FP410 circuitry the Noise-Adaptive Threshold activates any standard microphone for speech but not for constant room noise, such as air conditioning; MaxBus limits the number of activated microphones to one per talker; and Last Microphone Lock-On keeps the most recently activated microphone open until a newly activated microphone takes its place. Features include: four transformer-balanced mic/ line inputs; removable AC power cord; 48V phantom power; link jacks (with supplied cable) for interconnecting additional FP410 Mixers (a maximum of 25 for 100 total inputs); Auto/Manual Mode operation switch; input level LED indicators; Tape Out jack; two tranformer-balanced XLR mic/line outputs: low-cut filters; 1 kHz tone oscillator; adjustable peak limiter with LED indicator; switchable Peak or VU meter; 1/4" and mini-plug headphone jacks; and Monitor In jack to connect an external source to the headphone amplifier. Primary applications include video production, corporate television, radio and TV broadcast, and field production. Also useful for convention facilities, hotels, AV rental houses and permanent sound installations. One rack space high, accessory rack ears supplied. Battery (two standard 9-volt) or 120/240 Vac power.

FP42 All the features and ruggedness that have made Shure mixers industry standards ... plus full stereo capability. The FP42 is perfect for stereo mixdown in video editing suites. Four XLR transformer-balanced mic/line inputs and two outputs (one for each stereo channel). Pull-pot cuing on all inputs provides channel previewing (so important in sports remotes). Three standard 9-volt battery or 120/240 Vac power. Rack mountable with A16R.

FP51 The FP51 rides gain automatically, assuring consistent signal output. It combines a 4-in, 1-out mixer with a high-quality compressor featuring a gated memory that provides an adjustable 40 dB compression range (compression ratio of approximately 10:1 in normal operating range). Features: XLR transformer-balanced mic/line inputs and outputs, phantom power, 1 kHz tone oscillator, pull-pot cuing on all inputs, '/4" and mini (3.5 mm) headphone jacks with level control, low-cut filters for each channel, and an illuminated dual-range VU meter that indicates output level, dB compression, or battery condition, 120/240 Vac or battery (three standard 9-volt) power. Rack mountable with A16R.





R 0 FESSI O N A L C R C U 0 U C

The circuitry products in the Shure FP (Field Production) Series are industry standards for their problem-solving, feature-packed designs and extreme ruggedness. Built specifically for broadcast and Field Production applications, Shure "FP" products are synonymous with convenience and reliability to audio technicians worldwide.

Shure "M" Series circuitry products are compact, durable, reliable, and functional. It's no surprise that they've become standards for broadcast, sound reinforcement, paging, and audio/visual applications.





FP31 The world standard in field production, the FP31 Audio Mixer packs an amazing number of features into an exceptionally compact package includes three XLR transformer-balanced mic/line inputs and two outputs, VU meter, timed meter lamp, peak LED overload/limiter indicator, adjustable limiter, tone oscillator, mini and ¼" headphone jacks, phantom and A-B (T) power, tapeout mini jack, and more. Built-in slate tone and microphone make it easy to mark takes. Battery powered (two standard 9-volt; three standard 9-volt batteries required for A-B power).

FP32 A stereo version of the Shure FP31 Audio Mixer, with a center-detented stereo pan pot for each input channel plus a concentric clutched stereo master gain control. Includes all FP31 features, plus a monitor input for the headphone circuit

FP16A A 1-input, 6-output portable audio distribution amplifier for routing multiple audio feeds. Ideal as a portable press bridge. Includes: XLR transformer-balanced input and outputs (each switchable for microphone or line level operation), phantom power, link jacks for connecting additional FP16A units or outboard devices, screwdriver-adjustable gain controls. Battery (three standard 9-volt) or 120/240 Vac power. Rack mountable with A16B

FP11 The FP11 Mic-to-Line amplifier provides up to 84 dB of additional gain in fourteen 6 dB steps for boosting microphone and auxiliary level devices to line level. This compact amplifier includes: a transformer-balanced XLR input and output; switchable peak limiter, peak/limiter LED indicator; aux level mini-phone jack input; balanced line-level binding post output; and removable belt clip. Powered by standard 9-volt battery.

FP12 A 1-input, 2-output headphone bridging amplifier, the FP12 is a must for remote broadcasts, audio troubleshooting, and boom operators. When operated in-line, it can provide headphone feeds from any type of audio input without interrupting the input signal. Includes both XLR and ¼ in/out connectors and both ¼ and min (3.5 mm) headphone jacks. Features Mic/Line input switch, Hi-Z/Lo-Z headphone switch, headphone level control. battery test jacks, and removable belt clip. Takes standard 9-volt battery. Extremely high output makes the FP12 great for high noise situations and for use as a simple intercom.



M267 The most popular field production mixer ever. The industry standard M267 mixer incorporates a switchable limiter, phantom power, LED peak indicator, built-in battery pack, headphone jack and level control, battery check function, tone oscillator, mic/line switches on each input and output, low-cut switches, mix bus jack, and much more. Four XLR transformer-balanced inputs; an XLR output and a binding post output; battery (three standard 9-volt) or 120/240 Vac power. Rack mountable with A268R.

M268 A compact, lightweight, 5-input mixer for use in PA/paging applications. It's also widely used by performers as an add-on mixer for input expansion (such as drum or keyboard sub-mixes). Includes four transformer-balanced low-impedance microphone inputs and four high-impedance '/4" phone jack inputs, plus a high-level auxiliary input. Also features phantom power, mix bus, mic level transformer-balanced output and aux level unbalanced output. 120/240 Vac power. Rack mountable with A268R.

M68A/M68FCA Practical, efficient, and low in cost, the M68 Series is perfect for all applications requiring an economical microphone mixer. Four microphone channels, each switchable for high-impedance or low-impedance microphones. Also features aux level input channel, master volume control, aux level and microphone level outputs. Excellent for paging, tape recording, A/V work, and other applications. 120/240 Vac power. Rack mountable with A68R. M68A features male XLR input connectors. M68FCA incorporates female XLR connectors.

PROLOGUE® 200M An economical, portable mixer with four low-impedance microphone inputs Input 4 is switch-selectable to accommodate either a low-impedance microphone or an auxiliary level source, such as a tape recorder. One balanced, low-impedance microphone-level output and one auxiliary phono jack output can be used simultaneously. Two mixers can be connected together for more inputs. Stackable with Prologue 210 Amplifier for convenient operation. Available in 120 or 240 Vac versions.

PROLOGUE® 210A Ten watts continuous power into 4 ohms. One balanced low-impedance input with female XLR connector accepts a microphone directly or the output of a Prologue 200 Mixer when multiple inputs are required. Two auxiliary level phono jack inputs may be used simultaneously with the microphone input. or to link multiple 210 Amplifiers together. Two '/-" speaker jacks will operate two 8-ohm speakers simultaneously. Available in 120 or 240 Vac versions.

















Shure "Problem Solvers" are famous for making audio technicians' lives much simpler. "Problem Solvers" include a wide variety of compact "in-line" microphone attenuators, equalizers, transformers, adapters, and other devices.

M64A A compact stereo preamplifier which solves a variety of preamplification and equalization problems. The 3-position slide switch selects standard RIAA equalization (PHONO) or NAB equalization for tape heads (TAPE). In the flat position, the M64A can be used as a microphone preamplifier or a low-gain buffer amplifier where long cable lengths are necessary. Ideal for interfacing phonographs with PA systems. 120/240 Vac.

PS1A A 20 Vdc power supply that provides phantom power for one or two condenser microphones. 120/240 Vac.

50AC Telephone Acoustic Coupler Designed to feed audio information to or from a telephone handset. Useful in recorded interview broadcast applications when a tape recorder cannot be "hard wired" to a telephone line. Can be used as a microphone or speaker for recording or playback. Dynamic transducer with a 300 to 3,000 Hz frequency resoonse.

A120S Accessory In-Line Switch May be used to add an On/Off, Push-To-Talk, Cough Button, or Transmitter Relay Keying function to a microphone or any other device.

A15AS Switchable Microphone Attenuator Prevents preamp overload in applications where very strong signals are applied to a microphone input. Provides 15, 20, or 25 dB attenuation.

A15BT Bridging Transformer Matches balanced or unbalanced devices of different impedances. (33 kilohm primary, 500 or 7,500 ohm secondary.)

A15HP High Pass Filter Provides a low-frequency cutoff to reduce unwanted low-frequency noise.

A15LA Line Adapter Provides 50 dB attenuation, allowing a balanced line-level source to be connected to a balanced microphone input.

A15LP Low Pass Filter Provides a high-frequency cutoff to reduce objectionable high-frequency noises.

A15PA Presence Adapter Adds presence to vocals or instruments in recording, broadcasting, and PA applications.

A15PRS Switchable Phase Reverser Provides instant switch selection of normal or reversed phase of a balanced line without modification of equipment.

A15RS Response Shaper Provides sibilance filtering (removes presence peak) for recording broadcasting, and PA applications.

A15TG Tone Generator Produces a continuous 700 Hz mic-level signal capable of driving low-impedance balanced lines. Extremely useful in setting up and troubleshooting audio equipment. Battery operated.

A85F Low- to High-Impedance Matching Transformer Low-impedance connector: 3-pin XLR female. High-impedance connector: standard 7-inch phone plug.

A95UF Low- to High-Impedance Matching

Transformer Low-impedance connector: 3-pin XLR female. High-impedance connector: Amphenol MC1M-type connector with mating standard '/4-inch jack and phone plug adapters.

A95U Same as A95UF, but with 3-pin XLR male low-impedance connector.

A97A Low- to Medium-Impedance Matching Transformer Low-Impedance connector: 3-pin XLR male. Medium-Impedance connector: Amphenol MC1M-type connector with mating standard 1/4-inch jack and phone plug adapters.

A97F Low- to Medium-Impedance Transformer with Miniplug Output Connector Allows standard balanced low-impedance microphones to be connected to miniplug audio inputs found on most camcorders or small tape recorders.

A58WS WINDSCREENS

Fit all Shure "ball-type" microphones.

A58WS-OR Orange. A58WS-RD Red. **A58WS** Gray A58WS-BK Black. A58WS-WH White. A58WS-BL Blue. A58WS-BR Brown A58WS-GN Green. A58WS-YL Yellow

A2WS WINDSCREENS

Locking feature. For use with Models 545, SM57, and SM77.

A2WS Gray. **A2WS-BK** Black

A81G FILTER GRILLE

For Model SM81

Additional Windscreen models listed on page 19.











STANDS AND ADAPTERS

A55M "Shock Stopper"TM Isolation Mount/Swivel Adapter A breakthrough in noise isolation. Reduces mechanical and vibration noise by more than 20 dB. Fits Models SM48, SM57, SM58, SM77, SM78, 515, 545, 565, 587, and 588

A55HM "Shock Stopper" ** Isolation Mount/Swivel Adapter (Half-Mount Version) Permits instant insertion or removal of microphone on stage. Fits same models as A55M

A53M "Shock Stopper" Isolation Mount/Swivel Adapter Fits models SM59, SM62, SM63, SM63L SM81, SM85, and SM87

A53HM "Shock Stopper"TM Isolation Mount/Swivel Adapter (Half-Mount Version) (not pictured) Same as A55HM, except fits Models SM59, SM62, SM63, SM63L, SM81, SM85, SM87, SM94, SM96, 849, and 869

A25B Swivel Adapter Black. Designed for use with Models SM48, SM57, SM58, SM77, SM78, 515, 545, 565, 587, and 588.

A25C Swivel Adapter (not pictured) designed for use with Models SM94, SM96, B49, and B69.

A271 Triple Microphone Mount Fits models SM57, SM77, and 545 and accepts three microphones.

A57E Swivel Adapter Black Fits Models SM85

SM87, SM89, and AMS26 A57D Swivel Adapter Same as A57E, but Champagne color. Designed for use with Models

SM59, SM62, SM63, SM63L, and SM81 S37A Desk Stand Modern, low-profile design. Non-reflective, textured gray finish (2 1/6" x 4 % x 6 1/2").

S39A Vibration Isolation Stand For tables, desks, fecterns, etc. Provides the ultimate in isolation of microphone from mechanical vibration.

A27M Stereo Microphone Adapter Permits mounting of two microphones on one stand for recording, with complete flexibility in positioning. Accepts all Shure microphone mounts and adapters.

A452 Z-Bracket Small, lightweight alternative to standard microphone stand and boom combination Can be positioned on top or underneath any speaker cabinet or guitar amplifier. Includes % "-27 threaded connector





MICROPHONE CABLE SELECTION GUIDE

The models listed in this guide represent just some of the many cables available from Shure. These cables provide high durability and are shielded for use with low- or high-impedance microphones.

These debies provide high darasmic and are smerided to deservation of high importance military and are smerided to deservation.									
Model	Microphone Connector	Equipment Connector	Cable Type	Cable Length	Cable Conductors				
C15A	3-Pin XLR female	1/4" Phone Plug	Hi-Flex	15 Feet (4.6 m)	1				
C20B	3-Pin XLR female	1/4" Phone Plug	Hi-Flex	20 Feet (6.1 m)	1				
C20D	3-Pin XLR female	none	Heavy Gauge	20 Feet (6.1 m)	2				
C20H	3-Pin XLR female	3-Pin XLR male	Heavy Gauge	20 Feet (6.1 m)	2				
C25B	3-Pin XLR female-Black	3-Pin XLR male Heavy Gauge		25 Feet (7.6 m)	2				
C25E	3-Pin XLR female-Black	3-Pin XLR male	Triple-Flex**	25 Feet (7.6 m)	2				
C25F	3-Pin XLR female	3-Pin XLR male	Triple-Flex**	25 Feet (7.6 m)	2				
C25J*	3-Pin XLR female	3-Pin XLR male	Hi-Flex	25 Feet (7.6 m)	2				
C110	5-Pin XLR female	5-Pin XLR male	Triple-Flex ^{®**}	25 Feet (7.6 m)	4				

^{*}Also available in 50-foot (15m) and 100-foot (30m) lengths (C50J and C100J).

ADDITIONAL ACCESSORIES

AMS ACCESSORIES

A2406 Black metal adapter. Threads onto AMS24 gooseneck and provides an XLR male connector. **A26X** 3° black extension tube for table stand. **RKC188** Input channel expansion kit for AMS4000. **RKC189** Ribbon cable provides four additional channel board connectors for AMS4000 expansion **RKC190** XLR in/XLR out interface. Allows a wireless receiver or any line-level signal to be connected to an AMS input. **90RW1371** Mounting Flange for AMS24.

WIRELESS ACCESSORIES

WA300 Instrument cable. Connects L11 Body-Pack Transmitter to a guitar or other instrument. Cable is 4 ft. with a ¼ phone plug and Switchcraft TA4F connector.

WA310 Microphone cable. Connects L11 Body-Pack Transmitter to a dynamic or battery-powered condenser microphone for unbalanced operation. Cable is 4ft, with a 3-pin XLR female connector and Switchcraft TA4F connector.

WA330 Connector (Switchcraft TA4F 4-pin miniature connector). Adapts small-diameter microphone cable to L11 transmitter.

WA360 Remote audio mute switch adds an external momentary or locking audio on-off capability

WA370 Świvel Adapter for L Series and other handheld transmitters. Standard ⁵/e^{*}-27 thread. WA380 ^{*}/e^{*}-wave antenna for use with L3 or L4 Receivers. (WA380A for frequencies from 169-185 MHz; WA380B for 185-200 MHz; WA380C for 200-216 MHz.)

WA390 Single or double rack mount kit for L3 13/4* high.

WA400 Antenna distribution system utilizes only two antennas for the operation of four diversity receivers.

WA410 Output cable. 6-foot output cable for L3. 1/4" phone plug on receiver end; 3-pin XLR male professional connector on other end. Unbalanced. WA420 Antenna cable. Cable kit for remote placement of WA380 Antenna with L3 or L4 Receivers. Includes 20-foot RF extension cable with UHF type plugs, adapter for mating with the WA380, and a wall-mounting bracket.

BOOMS AND FLOOR STANDS

BB-77 Baby Boom A 31" chrome-plated, adjustable boom arm. Fits Model MS-10C Floor Stand. **MS-10C Floor Stand** Quickly and easily adjusts from 35" to 64" high

\$15 Tripod Floor Stand Extra-tall, rugged and stable, yet portable and lightweight. Five telescoping sections. Stand may be used at any height between 31/2 and 14 ft. Excellent for use with VP8B.

CIRCUITRY MOUNTING KITS

A16R Rack panel for FP16A, FP42, and FP51 A68R-BL Rack panel for M68A, M68FCA. Black finish.

A268R Rack panel for M267 and and M268. Black finish

RKC169 Bracket kit, adapts A68R to fit M267 and M268.

GOOSENECKS

GGA 6" flexible with side vent.

G12 12" flexible

G12-CN 12" flexible with 3-pin XLR female professional audio connector.

G18 18" flexible

G18-CN 18" flexible with 3-pin XLR female professional audio connector.

90B1120A 12" lightweight.

GOOSENECK MOUNTING FLANGES

A12 Mounting Flange Standard 5/6"-27 external thread, mounts to flat surface.

A13HD Mounting Flange Heavy-duty flange designed to provide increased stability. Standard ⁵/₆"–27 external thread.

LAVALIER MOUNTING HARDWARE

A51L Plastic. Fits Model 570S

A571 Rubber, Fits Models 570S and AMS28. **RK240SB Single Mount Tie Ber** (package of four) Fits Models SM83, SM84, WL83, WL84, B39, and 839W.

RK241DB Dual Mount Tie Bar (package of four) Fits Models SM83, SM84, WL83, WL84, 839, and 839W.

MOUNTS AND ADAPTERS

A25M Dual Microphone Mount Designed for use with Models SM58, SM78, S15, 565, and 588, and with Models SM57, SM77, and 545 when using A2WS windscreens.

A26X Desk Stand Extension Stem pipe for AMS26 microphone. Black, threaded on both ends.

A88SM Microphone Isolation Mount For use with VP88. Utilizes dual shock isolators and a cable locking design to eliminate noise associated with stands, booms, fishpoles and cable movement. Six mounting options include %"-27, 3%"-16, 5%"-18 threaded adapters for stands and booms; locking "foot" and '/4'-20 screw-type adapter for cameras; and a pistol grip adapter plate.

A89SM Shock Mount Holder For use with SM89 Shotgun. Also fits Model SM81.

C0-1 Stand Adapter Black. Screw-in type clamp for mounting second microphone on floor stand or for mounting a microphone directly to a desk or table.

WINDSCREENS

A1WS For 515 Series.

A3WS Fits Models SM94 and 849

A61WS Fits Model SM62

A81WS Specially designed for Model SM81. Large, multiple-layer design for use in high wind environments.

A85WS For SM85, SM87, SM96, and L2/96.

RK184WS Fits Models SM2, SM10A, and SM12A. RK204F For SM18B (Brown).

RK229WS Fits Models SM63, SM63L, AMS24,

and AMS26

RK242WS Fits Models SMB3, WL83, 839, and

839W.

RK257WS For Model SM89 49A66A For SM98A. 90A2089 For SM7. 90B4016 For SM99. 90RX1371 For 512.

^{**}Triple-Flex cable features greatly extended flex life, superior hum shielding, and premium connectors.

Microphone Model Number	Cable	Cartridge	Screen & Grille Assembly	Swivel Adapter	Windscreen	Misc. Accessories ④
55SH Series II	1	R115	-	-		_
512		R93 (Microphone) R143 (Receiver)	_	_	90RX1371*	A120S
515SB	70A2057	R15	RK54G	A25B*	A1WS	
515SD	1	R15	RK254G	A25B*	A1WS	_
520D	70A2047	R44D	_	_		_
545D	1	R45	RK244G	A25B*	A2WS	A26M, A55M
545L	70A2004	R45L	RK244G	A25B	A2WS	A26M, 94C282*
545SD	1	R45	RK244G	A25B*	A2WS	A26M, A55M, A55HM
545SH	1	R45	RK244G		A2WS	
565D	1	R65	RS65	A25B*	A58WS @	A26M, A55M, A55HM
565SD	1	R65	RS65	A25B*	A58WS @	A26M
570S	70A2 9 5	R70	RK91G	A57E		A57L*
579SB	1)	R50	RK221G (Champagne)	A57D*	A58WS @	
587SB	1	R136	RK252G	A25B*	A58WS @	A26M, A55M, A55HM
588SD	1	R15	RK253G (Champagne)	A25B*	A58WS @	A26M, A55M, A55HM
809		R130		_		PS1A
819		R129	_	_	_	PS1A
839	90A3875	R133		-	RK242WS* 3	PS1A, RK240SB ③
839W	90A4015	90DT2600		_	RK242WS* ③	RK240SB ③
849	1	R138	4474.24	A25C*	A3WS	PS1A, A53M, A53HM
869	1)	R137	RK256G	A25C*	A58WS @	PS1A, A53M, A53HM
AMS22	90CH2600	90CJ2600 ®	_			 ,
AMS24	_	_	90BZ2600		49C55*	90RW1371*
AMS26	C25E	90CK2600 ®	90CS2600	A57E*	RK229WS*	A26X
AMS28		90CL2600 ®				A57L
SM2	C108	R93 (Microphone) R135 (Receiver)			RK184WS*	
SM7	C25E	99A673	90A3004B		90A2089	
SM10A		R93			RK184WS*	A120S
SM11	C91	R99			_	A120S
SM12A		R93 (Microphone) R94 (Receiver)			RK184WS*	A120S
SM18B	90B3111	990669	 ,		RK204F	_
SM48	1	R136	RK248G	A25B*	A58WS @	A26M, A55M, A55HM
SM57	1	R57	RK244G	A25B*	A2WS	A26M, A55M, A55HM

- ① See Cable Selection Guide on Page 19.
- ② A58WS Windscreens are available in an assortment of colors.
- ③ Kit contains four.
- See Accessories on Pages 17, 18 and 19.
- ⑤ Includes transducer and amplifier.
- 6 Includes transducer, amplifier and cable.
- Indicates accessory cannot be used with product.
- * Furnished accessory.

Microphone Model Number	Cable	Cartridge	Screen & Grille Assembly	Swivel Adapter	Windscreen	Misc. Accessories ④
SM58	①	R59	RK143G	A258*	A58WS @	A26M, A55M, A55HM
SM59	①	90A2418	90CD2600	A57D*	A59WS-BR	A53M, A53HM
SM62	①	90A3007	_	A57D*	A58WS @	A53M, A53HM
SM63	C25F	90A2902	90DK2600	A57D*	RK229WS*	A53M, A53HM
SM63L	C25F	9082902	90DK2600	A57D*	RK229WS*	A53M, A53HM
SM77	C25E	R140	RK244G	A25B*	A2WS	A26M, A55M, A55HM
SM78	C25E	R141	RK210G	A25B*	A58WS @	A26M, A55M, A55HM
SM81	C25F	R104	90BU2600	A57D*	90002600	50AC, PS1A
SM83	C106	R127	_	_	RK242WS* ^③	PS1A, RK240SB ③, RK241DB ③
SM84	C109	R146		***************************************	RK261WS* ③	PS1A, RK240SB ③, RK241DB ③
SM85	C25E	R112	RK214G	A57E*	A85WS	A53M, A53HM, PS1A
SM87	C25E	R128	RK243G	A57E*	A85WS	A53M, PS1A
SM89	C25E	R144		A57E	RK257WS*	A89SM, PS1A
SM90A	C107	R130		_		PS1A
SM91A	C107	R129	_	_	_	PS1A
SM94	1	R138	RK249G	A25C*	A3WS	A53HM, PS1A
SM96	①	R137	RK243G	A25C*	A3WS	A53HM, PS1A
SM98A	C107	R134		RK245*	49A66A*	A98MK, A98G-18, A98PF, A98KC, A98SKCS, A98GM, PS1A
SM99	_	99A878	_	_	9084016*	A25C, A57E, PS1A
SM102B	_	90GM2600	_	_	49A102*	80B489, PS1A
SM102W	_	90GN2600	_	_	49B102*	80A489, PS1A
VP64	C25E	99A911	90GH2600	A57E*	49C55*	A53M, A53HM
VP88	90A4148*	_	90B1424A	9084046*	90A4163*	80A463**
WL83	90A4015	90CG2600		_	RK242WS* 3	RK240SB* ③
WL84	90A4015	90DM2600	_	_	RK261WS* ③	RK240SB* ③
WM98	90A4039	R134	_	RK245*	49A66A*	A98PF, A98KC Series, A98SPM

- 1 See Cable Selection Guide on Page 19.
- A58WS Windscreens are available in an assortment of colors.
- Kit contains four.
- See Accessories on Pages 17, 18 and 19.
- Indicates accessory cannot be used with product.
- Furnished accessory.
- See page 8 for complete line of VP88 Accessories.

NEED MORE INFORMATION?

Technical data sheets are available for most Shure products. They provide such information as detailed specifications, technical descriptions, product features, impedance change instructions, optional power conversions, circuit diagrams, wiring considerations, descriptions of controls, connectors and indicators, as well as a list of optional accessories and replacement parts.

Selection guides that recommend the most appropriate Shure microphones for various applications are also available. These include: **AL693** Microphone Selection Guide — Broadcast Applications AL702 Microphone Selection Guide — Sound Reinforcement and

Recording Applications **AL707** Microphone Techniques For Music

AL969 Guide to Better Audio

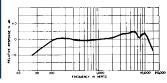
Data sheets and application guides may be obtained free of charge by contacting: Shure Brothers, Inc., Consumer Relations Department, 222 Hartrey Avenue, Evanston, IL 60202-3696, (708) 866-2560. When ordering please indicate the product model number(s) for data sheets and the "AL" number for selection guides.

PAGE

SM58

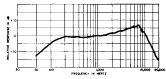
Type: Dynamic Frequency Response: 50 to 15,000 Hz

Polar Pattern: Cardioid funidirectional)
Impedance: 150 ohms (310 ohms actual)
Output Level: (at 1,000 Hz)
Open Circuit Voltage* -75.5 dB (0.17 mV)
Power Level** -56.0 dB



SM48

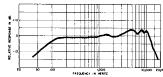
Type: Dynamic Type: Uynamic
Frequency Response: 55 to 14,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance: 150 ohms (270 ohms actual)
Output Level: (at 1,000 Hz)
Open Circuit Voltage* -77.5 dB (0.13 mV)
Power Level** -59 dB



SM78

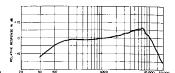
Type: Ovnamic

Type: Uynamic
Frequency Response: 50 to 15,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance: 150 ohms (250 ohms actual)
Output Level: (at 1,000 Hz)
Open Circuit Voltage* -77.5 dB (0.13 mV)
Power Level** -57.5 dB



587SB

Type: Dynamic Type: Uynamuc
Frequency Response: 55 to 14,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance: 150 ohms (270 ohms actual)
Output Level: (at 1,000 Hz)
Open Circuit Voltage* -77.5 dB (0.13 mV)
Power Level** -59 dB



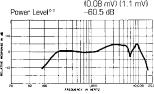
588SD

Type: Dynamic

rype: Dynamic Frequency Response: 80 to 13,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: Lo-Z: 150 ohms (180 ohms actual) Hi-Z: "High"

Output Level: (at 1,000 Hz)

Lo-Z Hi-Z -82.0 dB -59.5 dB (0.08 mV) (1.1 mV) Open Circuit Voltage* -60.5 dB



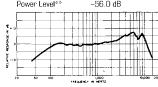
565D and 565SD

Type: Dynamic reper Dynamic
Frequency Response: 50 to 15,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance: Lo-Z: 150 ohms (180 ohms actual)
Hi-Z: "High"

When Lee H. (co. 4,000 U.S.)

Output Level: (at 1,000 Hz)

Lo-Z Hi-Z -76.0 dB -54.0 dB Open Circuit Voltage* (0.16 mV) (2.0 mV) -56.0 dB Power Level**



869

Type: Condenser type: Concenser Frequency Response: 70 to 16,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 600 ohms Output Level: (at 1,000 Hz) Open Circuit Voltage* -78 dB (0.13 mV)

SM85

Type: Condenser

type: Condenser:
Frequency Response: 50 to 15,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance: 150 ohms (85 ohms actual)
Unput Level: (at 1,000 Hz)
Open Circuit Voltage³ –74 dB (0.2 mV)

SM87

Type: Condenser

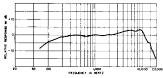
rype: Concenser Frequency Response: 50 to 18,000 Hz Polar Pattern: Supercardioid (unidirectional) Impedance: 150 ohms (85 ohms actual) Output Level: (at 1,000 Hz) Open Circuit Voltage* -74 dB (0.2 mV)

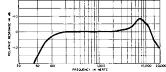
SM96

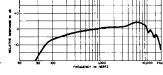
Type: Condenser vype: Concenser Frequency Response: 70 to 16,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (200 ohms actual) Output Level: lat 1,000 Hz) Open Circuit Voltage* -74 dB (0,2 m

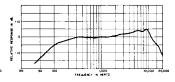
(0.2 mV)

(phantom) (0.18 mV) -75 dB (battery)









SM57

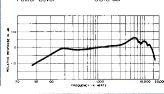
PAGE

4

PAGE

Type: Dynamic

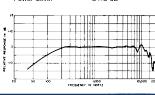
requency Response: 40 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (310 ohms actual) Output Level: (at 1,000 Hz)
Open Circuit Voltage* -75.5 dB (0.17 mV)
Power Level** -56.0 dB



SM59

Type: Dynamic Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (160 ohms actual) Output Level: (at 1,000 Hz) Open Circuit Voltage* -83 dB (.07 m Power Level** -61.0 dB

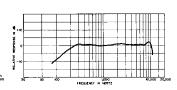
(.07 mV)



SM62

Type: Dynamic rype: Dynamic Frequency Response: 100 to 10,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (180 ohms actual)

Output Level: (et 1,000 Hz)
Open Circuit Voltage* -81.5 dB (.08 mV)
Power Level** -60.0 dB

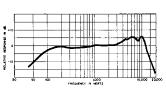


SM77

Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ahms (250 ohms actual) Output Level: (at 1,000 Hz)

Open Circuit Voltage* -77.5 dB (0.13 mV)

Power Level** -57.5 dB



545D and 545SD

Type: Dynamic lype: Uynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: Lo-Z: 150 ohms (275 ohms actual) Hz: "High" Output Level: (at 1,000 Hz)

Lo-Z Hi-Z Open Circuit Voltage* -78.0 dB -55.0 dB (0.13 mV)(1.76 mV) Power Level** -58.5 dB

545SH

Type: Dynamic

Frequency Response: 50 to 15,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance: Lo. Z: 150 ohms (250 ohms actual)

Output Level: (at 1,000 Hz)

La-Z Open Circuit Voltage* --76.0 dB -54.0 dB (0.16 mV) (2.0 mV) Power Level** -56.0 dB

5451

Type: Dynamic

lype: Uynamic
Prequency Response: 50 to 15,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance: 150 ohms (250 ohms actual)
Output Level: (at 1,000 Hz)
Open Circuit Voltage* -77.5 dB (0.13 mV)
Power Level** -57.5 dB

515SB and 515SD

Type: Dynamic Frequency Response: 80 to 13,000 Hz Polar Pattern: Cardioid (unidirectional)

515SB

Impedance: 150 ohms (170 ohms actual)
Output Level: (at 1,000 Hz)

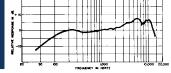
Open Circuit Voltage* -82.5 dB (.074 mV)
Power Level** -61.0 dB

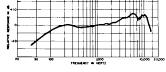
51550

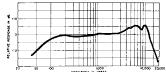
Impedance: Lo-Z: 150 ohms (170 ohms actual) Hi-Z: "High"

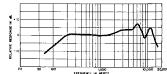
Output Level: (at 1,000 Hz)

Lo-Z Open Circuit Voltage* -82.5 dB -59.0 dB (.074 mV) (1.1 mV) Power Level** -61.0 dB







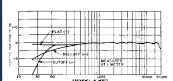


SM81

Type: Condenser

rype: curiusniser Frequency Response: 20 to 20,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (85 ohms actual) Output Level: (at 1,000 Hz) Open Circuit Volltage* -65 dB (0.5f Power Level*

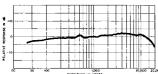
-65 dB -40.5 dB (0.56 mV) Power Level*3



SM94 Type: Condenser

rype: Condenser Frequency Response: 40 to 16,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (200 ohms actual) Output Level: (at 1.000 Hz)

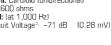
Open Circuit Voltages -69 dB (0.35 mV) (phantom) (D 32 mV) -70 dB (battery)



849

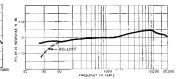
Type: Condenser Frequency Response: 40 to 16,000 Hz Polar Pattern: Cardioid (unidirectional)
Impedance: 600 ohms

Output Level: (at 1,000 Hz) Open Circuit Voltage^s



SM98A

Type: Condenser Type: Condenser Frequency Response: 40 to 20,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (90 ohms actual) Output Leval: (at 1,000 Hz) Open Circuit Voltage* -80.0 dB (0.10 mV)



SM99

AGES

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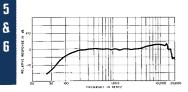
P

A G E

A G E

Type: Condenser Frequency Response: 80 to 20,000 Hz Polar Pattern: Supercardioid (unidirectional) Impedance: 150 ohms (90 ohms actual) Output Level: (at 1,000 Hz)

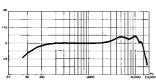
Open Circuit Voltage* -73.0 dB (0.22 mV)



BETA 58°

Type: Dynamic lype: Uynamic
Frequency Response: 50 to 16,000 Hz
Polar Pattern: Supercardioid (unidirectional)
Impedance: 150 ohms (290 ohms actual)
Output Level: (at 1,000 Hz)
Open Circuit Voltage* —71.0 d8 (0.28 mV)
Power Level* 51 5 d8

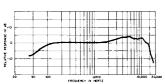
-51.5 dB



BETA 57®

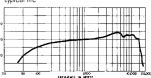
Type: Dynamic type: Uynamic
Frequency Response: 50 to 16,000 Hz
Polar Pattern: Supercardioid funidirectional
Impedance: 150 ohms (290 ohms actual)
Output Level: (at 1,000 Hz)
Open Circuit Voltage* --71,5 dB (0.27 mV)
Power Level* --52 dB

-52 dB



L2/BETA 58°

Type: Dynamic Audio Frequency Response: 50 to 15,000 Hz Polar Pattern: Supercardioid (unidirectional) Maximum Sound Pressure Level: 138 dB SPL (LO gain) 123 dB SPL (HI gain) Battery: Standard 9-volt alkaline; 12-14 hours typical life Type: Dynamic



L SERIES SYSTEM SPECIFICATIONS

RF Carrier Frequency Range: 169 to 216 MHz

Working Range: 30 m (100 ft) with > 90 dB dynamic range under average conditions; 90 m (300 ft) with > 80 dB dynamic range; 300 m (1000 ft) at 60 dB

Distortion: (ref. ±15 kHz deviation, 1 kHz Distortion: (ref. ± 1.5 km2 deviation) | Km2 modulation) 0.3% THO typical Dynamic Range: >102 dB, A-weighted Audio Frequency Response: 50 to 15,000 Hz, ±2 dB (for microphone frequency response specifications, see individual models)

L4 RECEIVER

Output: -2 dBV unbalanced aux output, 1 kilohm output: —2 ubv unadaniese aux unput; — Nadaniese aux unput; — Nadaniese aux unput; — Nadaniese aux under und

available

Power: 12.5-18 Vdc nominal (negative ground); 165 mA; 120 Vac external ac adapter supplied; 240 Vac adapter available

L3 RECEIVER

Output: ~2 dBV across 3.3 kilohms (volume full clockwise, full deviation, unloaded)

Antenna Type: 1/2 wavelength amnidirectional vertical; optional 1/2 wavelength antenna avaitable

Power: 12-18 Vdc nominal (negative ground); 85 mA; 120 Vac external ac adapter supplied; 240 Vac adapter available

L11 TRANSMITTER

RF Power Output: 50 mW maximum
Input Impedance: Actual: 16k, pin 4 wired to
pin 3 for 839W microphone; 100k, pin 4
open for microphone or instrument pickup
Antenna: Attached, 386 mm (15 in.),
omnidirectional, flexible wire
Battery: Standard 9-volt alkaline; 8-10 hours
typical life.

typical life

L2/58 HANDHELD TRANSMITTER

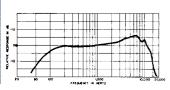
Type: Dynamic

idio Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional)
Maximum Sound Pressure Level:

138 dB SPL (LO gain)

123 dB SPL (HI gain)

Battery: Standard 9-volt alkaline; 12-14 hours typical life

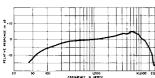


L2/96 HANDHELD TRANSMITTER

Type: Condenser

Audio Frequency Response: 50 to 15,000 Hz Nation Preguency explores: 30 or 13,000 nz Polar Pattern: Cardioid (unidirectional) Maximum Sound Pressure Level: 138 dB SPL (LO gain) 123 dB SPL (HI gain) Battery: Standard 9-volt alkaline; 12-14 hours

typical life



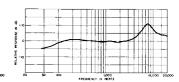
839W

Type: Condenser

equency Response: 50 to 16,000 Hz Polar Pattern: Omnnidirectional Output Impedance: 1,200 ohms

Output Level:

Open Circuit Voltage* -64.5 dB (0.6 mV) Maximum Sound Pressure Level: 136 dB



WL83

Type: Condensed

Frequency Response: 50 to 16,000 Hz Polar Pattern: Supercardioid (unidirectional) Output Impedance: 1,200 ohms **Output Level:**

Open Circuit Voltage* -65.5 dB (.53 mV) Maximum Sound Pressure Level: 136 dB

WIR4

Tyne: Condenser

Frequency Response: 50 to 16,000 Hz Polar Pattern: Supercardioid (unidirectional) Output Impedance: 1,200 ohms

Output Level:

Open Circuit Voltage* -66 dB (0.5 mV) Maximum Sound Pressure Level: 136 dB

WCM16

Type: Condenser

lype: Condenser Frequency Response: 50 to 18,000 Hz Polar Pattern: Hypercardioid Output Impedance: 1,200 ohms Output Level: Closse-talked at 1,000 Hz) Open Circuit Voltage* -75.0 dB (.18 mV)

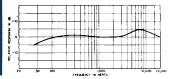
Maximum Sound Pressure Level: 150 dB

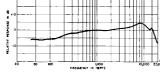


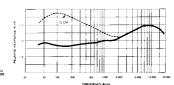
Type: Condenser

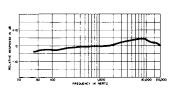
Frequency Response: 40 to 20,000 Hz Polar Pattern: Cardioid (unidirectional) Output Impedance: 1,200 ohms Output Level:

Open Circuit Voltage* -74.0 dB (0.2 mV) Maximum Sound Pressure Level: 144 dB







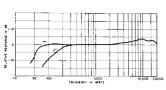


SM89

Type: Condenser

Frequency Response: 60 to 20,000 Hz Polar Pattern: Hypercardioid at low frequencies, lobar at frequencies above 1 kHz Impedance: 150 ohms (100 ohms actual) Output Level: (at 1,000 Hz)

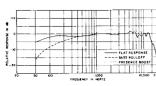
Open Circuit Voltage* -53 dB (2.2 mV)



SM7

Type: Dynamic

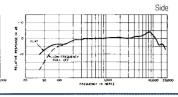
Type: Uynamic
Frequency Response: 40 to 16,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance: 150 ohms (150 ohms actual)
Output Level: (at 1,000 Hz)
Open Circuit Voltage* -79.0 dB (.11 mV)
Power Level** -57.0 dB



VP88

Type: Stereo Condenser (MS configuration)
Frequency Response: 40 to 20,000 Hz
Palar Pattern: Mid: Cardioid (unidirectional); Side: Bidicectional

Impedance: 150 ohms (100 ohms actual)



Dutput Level: (at 1,000 Hz, MS mode) Open Circuit Voltage (Mid)*

-66 dB (0.5 m Side Level (Stereo mode, relative to Mid (0.5 mV) -6.0 dB Level): Low

Meduim: -1.9 dB High: +1.6 dB

Maximum Sound Pressure Level: (800 ohm



SM18

P A G E

9

AGES

9

8 10

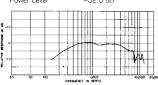
A G E

Frequency Response: 150 to 10,000 Hz, at 25° incidence to infinite surface, 1 m (39.4 in.) from sound source

Polar Pattern: Cardioid (unidirectional), at 1 m (39 4 in.) from horizontal sound source, microphone on flat surface

Impedance: 150 ohms (180 ohms actual) Output Level: (at 1,000 Hz, at 25°, 1 m 139.4 in.1 from sound source, microphone on flat surface)

Open Circuit Voltage* ~73.0 d8 (0.22 mV) Power Level* -52.0 d8



819

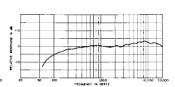
Type: Condenser

Type: Condenser:
Frequency Response: 60 to 20,000 Hz, at 30' incidence to infinite surface
Polar Pattern: Half-cardioid (cardioid in

hemisphere above mounting surface)
Impedance: 600 ohms
Output Level: (at 1,000 Hz, measured with

sound source at 30° incidence to infinite surface)

Open Circuit Voltage* -71.0 d8 (0.28 mV)

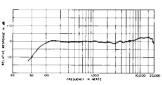


809

Type: Condenser Frequency Response: 50 to 20,000 Hz, at 30' incidence to infinite surface Polar Pattern: Omnidirectional in hemisphere

above mounting surface Impedance: 600 ohms Output Level: (at 1,000 Hz, measured with sound source at 30° incidence to infinite surface)

Open Circuit Voltage* -68.0 dB (0.4 mV)

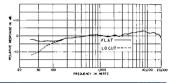


SM91A

Type: Condenser Frequency Response: 20 to 20,000 Hz, at 30' incidence to infinite surface Polar Pattern: Half-cardioid (cardioid in

hemisphere above mounting surface)
Impedance: 150 ohms (90 ohms actual)
Output Level: (at 1,000 Hz, measured with sound source at 30' incidence to infinite surface)

Open Circuit Voltage* -69.0 dB (0.35 mV)

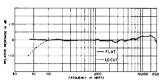


SM90A

Type: Condenser Frequency Response: 20 to 20,000 Hz, at 30° incidence to infinite surface Polar Pattern: Omnidirectional in hemisphere

above mounting surface Impedance: 150 ohms (90 ohms actual) Output Level: (at 1,000 Hz, measured with sound source at 30° incidence to infinite surface)

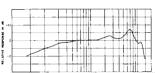
Open Circuit Voltage* -66.0 dB (0.5 mV)



Type: Dynamic

Frequency Response: 50 to 12,000 Hz Prequency Response: 30 to 12,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms (180 ohms actual) Output Level: (at 1,000 Hz) Open Circuit Voltage* –81.5 dB (0.08 Power Level** –60.0 dB

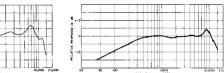
-81.5 dB (0.08 mV) -60.0 dB



SM11

Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms (200 ohms actual) Output Level: (at 1,000 Hz) Open Circuit Voltage* -8

-85 dB -64 dB (0.06 mV) Power Level*

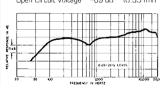


SM83

Type: Condenser

Type: Condenser Frequency Response: 80 to 20,000 Hz Polar Pattern: Omnidirectional Impedance: 150 chms (90 chms actual) Output Level: (at 2,000 Hz)

-69 dB Open Circuit Voltage

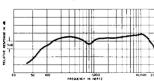


SM84

Type: Condenser

rype: Contention Frequency Response: 80 to 20,000 Hz Polar Pattern: Supercardioid (unidirectional) Impedance: 150 ohms (90 ohms actual) Output Level: (at 2,000 Hz)

Open Circuit Voltage -73 dB (0.22 mV)

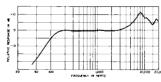


Type: Condenser

Frequency Response: 80 to 20,000 Hz Polar Pattern: Ornnidirectional Impedance: 600 ohms

Output Level: (at 1,000 Hz)
Open Circuit Voltage* -:

-70 d8 (0.32 mV)

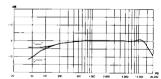


SM102

Tyge: Condenser

Frequency Response: 50 to 18,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (90 ohms actual) Output Level: (at 1,000 Hz)

-69.0 dB (0.35 mV) Open Circuit Voltage*



SM₂

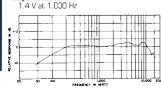
PAGE

MICROPHONE

Type: Dynamic, close-talking Frequency Response: (at 8 mm (% is in.))

Type: Dynamic

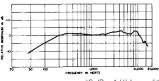
Frequency Response: 100 to 8,000 Hz Impedance: 2,000 ohms at 1,000 Hz Output Level: [at_each ear) 104.0 dB SPL with



512

MICROPHONE
Type: Dynamic, close-talking
Frequency Response: (at 8 mm [\$/16 in.])
50 to 15,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance: 150 ohms (200 ohms actual)
Output Level: (close-talked at 1,000 Hz)
Open Circuit Voltage* —47.0 dB (4.5 mV)
Power Level** —56.0 dB

RECEIVER Type: Dynamic, open air, left side only Frequency Response: 100 to 10,000 Hz Impedance: 300 ohms at 1,000 Hz Output Level: (at 1,000 Hz) 94 d8 SPL at ear with 1 mW input



SM10A

Type: Dynamic, close-talking Frequency Response: (at 8 mm (\$\frac{1}{16}\$ in.)) 50 to 15,000 Hz

Polar Pattern: Cardioid (undirectional)

SM12A

Type: Dynamic, close-talking Frequency Response: (at 8 mm (% in.)) 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional)

Impedance: 150 ohms (200 ohms actual)

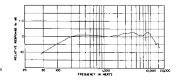
Output Level: (close-taiked at 1,000 Hz)

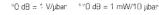
Open Circuit Voltage* -47.0 dB (4.5 mV)

Power Level** -66.0 dB

RECEIVER

Type: Dynamic Frequency Response: 70 to 12,000 Hz Impedance: 2,000 ohms at 1,000 Hz Output Level: 105.0 dB SPL with 1.4 V at 1,000 Hz





SM63 and SM63L

Type: Dynamic

Iype: Uynamic
Frequency Response: 50 to 20,000 Hz
Polar Pattern: Omnidirectional
Impedance: 150 ohms (270 ohms actual)
Output Level: (at 1,000 Hz)
Open Circuit Voltage* —76.0 d8 (0.16 mV)
Power Level** —56.5 d8

579SB

Type: Dynamic Type: Dynamic Frequency Response: 50 to 14,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms (200 ohms actual)

Output Level: (at 1,000 Hz)
Open Circuit Voltage* -78.5 dB (0.13 mV)
Power Level** -57.0 dB

55SH SERIES II

Type: Dynamic

Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (270 ohms actual) Output Level: (at 1,000 Hz) Open Circuit Voltage* -78 0 dB (0.13 mV) Power Level** 58.5 dB

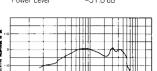
5200

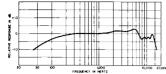
Type: Controlled Magnetic® Type: Controlled Magnetics
Frequency Response: 100 to 5,000 Hz
Polar Pattern: Ornidirectional
Impedance: (at 1,000 Hz) Dual. Microphone

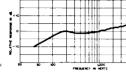
impedance rating is 150 ohms (160 ohms actual) and "High"

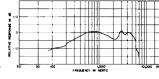
Output Level: (at 1,000 Hz)

Lo-Z Hi-Z -73.0 dB -56.0 dB (0.22 mV) (1.6 mV) Open Circuit Voltage* Power Level** -51.0 dB









VP64

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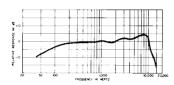
AGE

Type: Dynamic Frequency Response: 50 to 12,000 Hz Polar Pattern: Ornidirectional Impedance: 150 ohms (290 ohms actual)

Output Level: (at 1,000 Hz)

Open Circuit Voltage* -71.0 dB (0.28 mV)

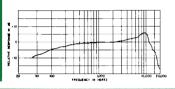
Power Level** -52.0 dB



AMS26

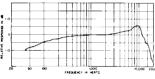
Type: Condenser Frequency Response: 50 to 16,000 Hz Polar Pattern: Cardioid (unidirectional) Output Level: (at 1,000 Hz)

Open Circuit Voltage® _54 de



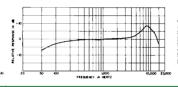
AMS24

Type: Condenser Frequency Response: 50 to 16,000 Hz Polar Pattern: Cardioid (unidirectional) Output Level: (at 1,000 Hz) Open Circuit Voltage* _54 dB



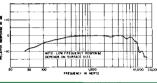
AMS28

Type: Condenser Frequency Response: 50 to 16,000 Hz. Polar Pattern: Cardioid (unidirectional) Output Level: (at 1,000 Hz) Open Circuit Voltage* -53 dB



AMS22

Type: Condenser Prequency Response: 50 to 10,000 Hz Polar Pattern: Hemi-Cardioid Output Level: (at 1,000 Hz) Open Circuit Voltage* . . 47 dB



AM\$4000/8000 MIXER

Outout Level

Microphone Input: (72 dB SPL in) Line: +15.8 dBV (+18 dBm) Mic: -34 dBV Aux: +17 dBV Direct: -56 dBV Phones: -4 dBV Input Clipping Level at 1 kHz: 128 dB SPL

Aux Input: (-22 dBV in) Line: +15.8 dBV Mic: -34 dBV Aux: +17 dBV Phones: -4 dBV Input Clipping Level at 1 kHz: +7 to +20 d8V,

depending on Aux control setting

Frequency Response:

rrequency response:
Aux Input to Outputs: 30 to 20,000 Hz ±2 dB
Mic Input to Outputs: 70 to 20,000 Hz ±2 dB
(controlled low-frequency rolleff below 50 Hz)
Operating Voltage: 105-132 Vac, 50/60 Hz,
20W. Can be rewired for 210-264 Vac operation

AMS880 VIDEO SWITCHER INTERFACE

Inputs: Eight, plus ground, TTL logic level Outputs: Fight, plus common antically isolated; not connected to input ground

External Power Transformer: 120 Vac ±10%, 60 Hz 6W

FP410

Output Clipping Level: Line: +19 dBm Equivalent Input Noise: -128.5 dBV Phantom Power Voltage: 14 or 48 Vdc Battery Life:*** 12 hours

Output Clipping Level: Line: +16 dBm Equivalent Input Noise: -129 dBV Phantom Power Voltage: 11 to 18 Vdc Battery Life:*** 8 hours

Output Clipping Level: Line: +18 dBm Equivalent Input Noise: -129 dBV Phantom Power Voltage: 30 Vdc Battery Life: *** 10 hours

FP32

Output Clipping Level: Line: +16 dBm Equivalent Input Noise: -128 dBV Phantom Power Voltage: 11 to 18 Vdc Battery Life:*** 6 hours

Output Clipping Level: Line: +18 dBm Equivalent Input Noise: -129 dBV Phantom Power Voltage: 30 Vdc Battery Life:*** 10 hours

FP16A

Output Clipping Level: Line: +16 dBm Equivalent Input Noise: -129 dBV Phantom Power Voltage: 30 Vdc Battery Life:*** 20 hours

FP11

Output Clipping Level: +18 dBm Equivalent Input Noise: -129 dBV Battery Life:*** 25 hours

FP12

Output Clipping Level: 4 ohms: 750 mV; 1 Kilohm: 15 V Equivalent Input Noise: -118 dBV Battery Life: *** 25 hours

Output Clipping Level: Line: +18 dBm Equivalent Input Noise: -128.5 dBV Phantom Power Voltage: 30 Vdc Battery Life:*** 20 hours

MOSR

Output Clipping Level: Aux (10 Kilohm): +18 d8V (7.9 V) Equivalent Input Noise: -128 d8V Phantom Power Voltage: 30 Vdc

MGRA/MGRFCA

Output Clipping Level: Aux (10 Kilohm): 4 V Equivalent Input Noise: -123 dBV

PROLOGUE® 200M MIXER

Output Clipping Level: Aux: +9 dBV Equivalent Input Noise: -116 dBV Distortion: Less than 1.0%

PROLOGUE® 210A POWER AMPLIFIER

Output Clipping Level: +16 dBV Equivalent Input Noise: -127 dBV Bistortion: Less than 3% Voltage Gain: 84 dB

M64A

Gain: (Measured at 1 kHz; input through 680 ohms; output terminated in 47 kitchms)

Switch Low-Level Position Output Phono +11 dB Flat Tape +37 d8 $\pm 13.5 \text{ dB}$

Frequency Response:

Phono: ±2 dB of Standard RIAA curve from 40 Hz to 15 kHz
Flat: 20 Hz to 26 kHz, ±2 dB
Tape: ±2 dB of 7½ jps NAB curve from 50 Hz to 15 kHz

Total Harmonic Distortion: Less than 1% with

2 V output at 1 kHz in all switch positions. Phono position only: Less than 1% at 30 Hz with 2 V output Hum and Noise: (20 Hz to 20 kHz) Phono: Better than 71 dB below 10 mV input Flat: Better than 64 dB below 10 mV input

PS1A

Open Circuit Supply Voltage: 21.5 ±1.5 Vdc, regulated

Frequency Response: 20 Hz to 20 kHz

(±0, -0.2 dB) **Hum and Noise:** (20 Hz to 20 kHz, unweighted)

Common Mode: -90 dBV maximum Differential Mode: --115 dBV maximum

THE SOUND OF THE PROFESSIONALS®... WORLDWIDE

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Shure Brothers Incorporated 222 Hartrey Avenue Evanston, IL 60202-3696 Phone 708-866-2200 Fax 708-866-2279

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