



### MODEL MD-421 DIRECTIONAL STUDIO MICROPHONE (FIG. A)

Beautifully-styled, dynamic hi-fi mike with cardioid polar pattern: Sensitive at the front and "deaf" toward the sides and back. Sound source is received 6 times as loud at 0° as at 180°, given equal output and distance. Equipped with bass control. **Frequency Range:** = 2.5 db, 40-16,000 cps; overall 30-17,000 cps. **Output Level:** -53 db referred to 1 mw/10 dynes/cm<sup>2</sup>. **Discrimination:** 16 db at back for frequencies above 250 cps. **Magnetic Field Interference Factor:** 5  $\mu$ V/50 milligauss. **Impedance:** 200 ohms. **Size:** 6.96" x 1.9" x 1.81". Weight, 13.4 oz.

- Sennheiser Model MD-421 Studio Microphone**—Net Each.....\$114.00  
**Sennheiser Model MD-421/HN High-Low Studio Microphone**—Same, but with both high and low input connection: 24K or 200 ohms. Cable transformer available. Net Each.....\$117.00  
**Sennheiser Model MZT-421 Desk Stand**—Net Each.....7.50  
**Sennheiser Model MZW-22 Wind Screen**—Net Each.....15.00

### MODEL MD-31 DYNAMIC FLOOR STAND MICROPHONE (FIG. B)

Advanced design for stage and studio work. Hardly perceptible, only the telescoping, pencil-sized supporting tube can be seen. Moving coil insert located in the foot is fully protected against damage. Near omnidirectional response without disc; broad beam at higher frequencies using disc; sound guide director tube gives strong directional beam (available as accessory). Height adjustable 35° to 60°. **Frequency Range:** = 3 db, 50-12,000 cps. **Internal Resistance:** 200 ohms. **Output Level:** -59 db referred to 1 mw/10 dynes/cm<sup>2</sup>. **Size:** Base, 6.7" dia. x 2.4" h.; speech head .94" dia.; Plexi-glass disc 1.97" dia.; height, 60" extended. Weight, 3 1/4 lbs.

- Sennheiser Model MD-31 Floor Mike**—With base, speech head and disc. Net...\$107.00  
**Sennheiser Model MZZ-31 Tube Extension Piece**—Net Each.....3.50  
**Sennheiser Model MZR-31 Directional Sound Guide**—Net Each.....38.00

### MODEL MD-212 LAVALIER MICROPHONE (FIG. C)

Widely used by singers and emcees. Using high internal pre-emphasis, this mike restores "live" quality of sound, regardless of positioning with reference to mouth. Internal housing holds moving coil transducer freely suspended from outer housing; provides considerable mechanical isolation. Rugged metal housing finished in durable, non-glare enamel paint; prevents "blooming" and other lighting problems. Noise-free, wide range response combines with maximum operating convenience for an ideal combination. Impervious to tropical conditions. **Frequency Range:** 60 cps (-9 db) to 15,000 cps (-4 db). **Output Level:** -59 db ref. 1 mw/10 dynes/cm<sup>2</sup>. **Polar Pattern:** Spherical. **Magnetic Field Induction Sensitivity:** 8  $\mu$ V at 50 milligauss max. **Impedance:** 200 ohms. **Size:** 3" x 1.1" x 1.1".

- Sennheiser Model MD-212 Lavalier Microphone**—Net Each.....\$110.00

### MODEL MD-211 MOVING COIL STUDIO MICROPHONE (FIG. D)

Outstanding performer combines small size with absolutely faithful reproduction of all sound in the audio spectrum. Unusually flat response, free of peaks and valleys within a wide frequency range. Polar pattern is an almost perfect sphere, ideal for sound stage, studio and hi-fi PA applications. Sturdy cartridge is impervious to adverse weather conditions. Satin chrome finished housing is practically unbreakable. **Frequency Range:** = 2.5 db, 40-17,000 cps. **Output Level:** -57 db ref. 1 mw/10 dynes/cm<sup>2</sup>. **Size:** 0.9" dia. x 4.75" lg.

- Sennheiser Model MD-211 Moving Coil Studio Mike**—Net Each.....\$115.00  
**Sennheiser Model MZW-211 Wind Screen**—Net Each.....18.00  
**Sennheiser Model MZT-102 Desk Stand**—Net Each.....13.00

### MODELS MKH-104, MKH-105 CONDENSER MICROPHONES (FIG. E) WITH TRANSISTORIZED RF CIRCUITRY

Unique Sennheiser innovation incorporates an interlocking, compact, low voltage power supply for widest versatility in microphone convenience. Features a broad frequency range, exceptional flatness, and controlled peak at the upper frequency extreme. Guaranteed stabilization, noise suppression and extended response at good output levels. Low impedance design renders the system insensitive to interference from magnetic and electrical fields. Rugged construction assures safety from mechanical noise, air-pressure shock waves and high humidity. Battery adapter accessory permits use with 6 Mallory RM625 batteries (or equivalent) for 50-60 hours of continuous operation. Acoustic system is pressure responsive type. Omnidirectional polar pattern. **Frequency Range:** 20-20,000 cps. **Output Level:** -35 db ref. 1 mw/10 dynes/cm<sup>2</sup>. **Distortion:** 0.3% at 10 dynes/cm<sup>2</sup>. **Noise Voltage:** Approx. 7  $\mu$ V. **Overload Level:** Approx. 300 dynes/cm<sup>2</sup>. **Power Required:** Approx. 5 mA, 8 volts (=1 V). **Temperature Range:** +14° F to +158° F. **Impedance:** 770 ohms, unbalanced and ungrounded; accessory cable transformer, TM-515/1 matches to 200 ohms. **Size:** 3/4" dia. x 5" lg. Weight, 3 oz.

- Sennheiser Model MKH-104 Condenser Microphone**—Net Each.....\$195.00  
**Sennheiser Model MZA-6 Battery Adapter**—Holds 6 miniature batteries. Net. 19.50  
**Sennheiser Model MZW-104 Wind Screen**—Net Each.....18.00  
**Sennheiser Model MZT-102 Desk Stand**—Net Each.....13.00  
**Sennheiser Model TM-515/1 Cable Transformer**—Matches 200 ohms. Net...16.00  
**Sennheiser Model KA-7 Extension Cable**—22 ft. long, Net Each.....14.00  
**Sennheiser Model MKH-105 Low Impedance Mike**—Balanced. Net Each...199.00

### MODELS MKH-404, MKH-405 CARDIOID CONDENSER MIKES (FIG. F) WITH TRANSISTORIZED RF CIRCUITRY

Identical to Model MKH-104, except has cardioid polar pattern. Outstanding front-to-back rejection (separation) over the entire audio frequency range.

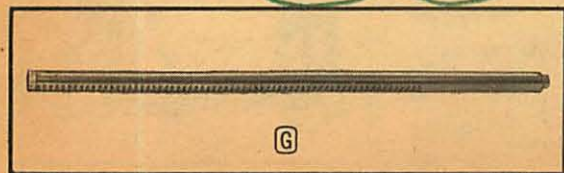
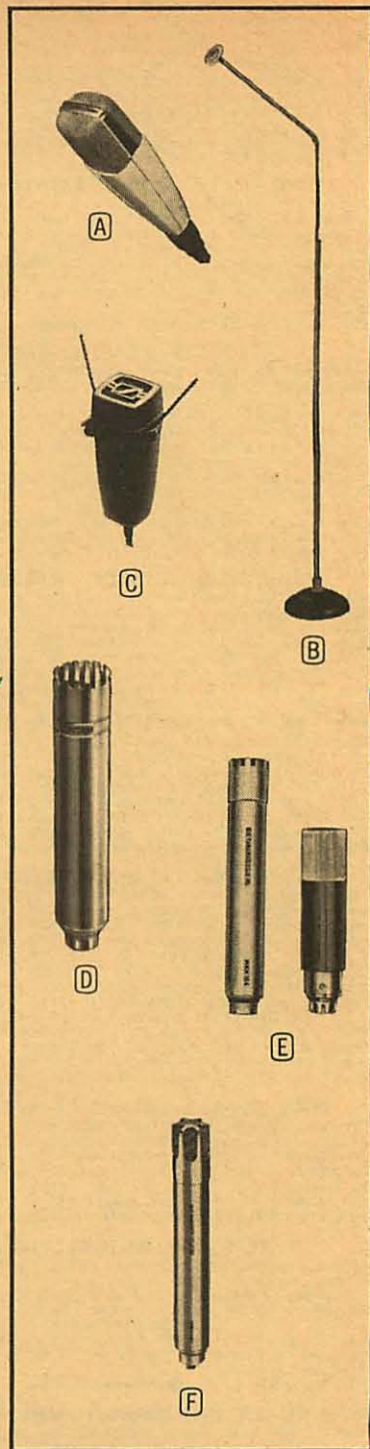
- Sennheiser Model MKH-404 Condenser Cardioid Microphone**—Net Each...\$230.00  
**Sennheiser Model MKH-405 Low Impedance Mike**—Balanced. Net Each...240.00

### MODELS MKH-804, MKH-805 CONDENSER TELEMICROPHONES (FIG. G)

#### WITH TRANSISTORIZED RF CIRCUITRY

Unidirectional condenser microphone designed for long range pick-up with condenser microphone quality. Excellent for use on boom. Working distance 2.5 times that of cardioid microphones. **Frequency Range:** 50-20,000 cps. **Output Level:** -28 db ref. 1 mw/10 dynes/cm<sup>2</sup>. **Size:** 3/4" dia. x 22" long. Weight, 15 oz.

- Sennheiser Model MKH-804 Condenser Telemicrophone**—Net Each.....\$342.00  
**Sennheiser Model MKH-805 Low Impedance Mike**—Balanced. Net Each.....\$351.00





# SENNHEISER MICROPHONES

## PROFESSIONAL MICROPHONES (CONTINUED)

### MODEL MD-4055 DYNAMIC WIRELESS HAND MIKE (FIG. H)

Super cardioid polar pattern ideal for use with wireless mike systems. Moving coil design housed in metal case. Compensation coil protects against interference from external magnetic fields. Effective damping extends over entire frequency range. **Frequency Range:**  $\pm 3$  db, 100-14,000 cps. **Output Level:** -56 db ref. 1 mv/10 dynes/cm<sup>2</sup>. **Discrimination:** 12 db. **Impedance:** 200 ohms. **Size:** 1.65" dia. x 5 3/4" l. **Weight:** 7 oz. **Sennheiser Model MD-4055 Dynamic Hand Mike**—With on-off switch. Net Each. . . . . \$64.00

### MODEL SM-1002 MIKROPORT WIRELESS SYSTEM (FIG. I)

Ideal for on-the-spot sound reproduction. Light, compact system with choice of two receivers. Microphone for system is the above listed MD-4055. **Sennheiser Model SK-1005 Transmitter**—Net Each. . . . . \$240.00  
**Sennheiser Model T-201 AC Receiver**—Net Each. . . . . 275.00  
**Sennheiser Model T-203 DC Receiver**—Battery operated and transistorized. Net Each. . . . . 280.00  
**Sennheiser Model TS-201 Dipole Plug**—For AC system. Net Each. . . . . 17.00  
**Sennheiser Model TA-203 Telescopic Antenna**—For AC system. Net Each. . . . . 29.00  
**Sennheiser Model ETS-201 Strap Antenna**—For DC system. Net Each. . . . . 17.00  
**Sennheiser Model ETA-203 Telescopic Antenna**—For DC system. Net Each. . . . . 21.00  
**Sennheiser Model MC-7 Connecting Cable**—For AC system. Net Each. . . . . 10.50  
**Sennheiser Model MC-8 Connecting Cable**—For DC system. Net Each. . . . . 9.80  
**Sennheiser Model HZ5-16 Monitoring Headset**—For DC system. Net Each. . . . . 8.00

## GENERAL PURPOSE MICROPHONES

### MODEL MD-21 DYNAMIC MICROPHONE (FIG. A)

Rising response of 5 db beyond 100 cps makes this mike suitable for broadcasting and sound film recording. Nearly omnidirectional polar pattern. **Frequency Range:**  $\pm 3$  db, 50-15,000 cps, slowly rising by 5 db beyond 1 kc. **Output Level:** -53 db referred to 1 mw/10 dynes/cm<sup>2</sup>. **Impedance:** 200 ohms. **Size:** 4.72" x 1.81" sq. **Sennheiser Model MD-21 Dynamic Microphone**—Net Each. . . . . \$57.00  
**Sennheiser Model MD-21/HN Dynamic Microphone**—Same, but with transformer built in to provide match for high impedance inputs (approx. 30K ohms), with short lead to amplifier or tape recorder. Net Each. . . . . \$59.00  
**Sennheiser Model MZT-21 Desk Stand**—Net Each. . . . . 6.50  
**Sennheiser Model MZW-21 Wind Screen**—Net Each. . . . . 15.00

### MODEL MD-408 UNI-DIRECTIONAL GOOSE-NECK MIKE (FIG. B)

Super cardioid mike on flexible shaft for unobtrusive, wide-range performance with good directionality. Reliable for many applications. Protective wire cage has integral moving coil insert; attaches directly to flexible shaft. Ideal for speech or music with good discrimination; no feedback in PA equipped halls. **Frequency Range:** 100-14,000 cps with 3 db greater sensitivity in 7-14 kc range than at 1 kc. **Output Level:** -55 db, referred to 1 mw/10 dynes/cm<sup>2</sup>. **Discrimination:** Above 12 db at 150° for entire frequency range. **Impedance:** 200 ohms. **Sennheiser Model MD-408 Uni-directional Microphone**—With push-to-talk switch. Net Each. . . . . \$56.00

### MODEL MD-406 DYNAMIC DIRECTIONAL HAND MIKE (FIG. C)

Lightweight, super cardioid hand mike with excellent electrical and directional characteristics. Adaptable to sound reproduction, reporting, public address systems and musical reproduction. Protective gauze sphere acts as blast shield. Includes 25 ft. connecting cable. **Frequency Response:** Better than  $\pm 3$  db, 50-15,000 cps. **Output Level:** -55 db, referred to 1 mw/10 dynes/cm<sup>2</sup>. **Impedance:** 200 ohms. **Size:** 1.7" dia. x 5.5" lg. **Weight:** 6.5 oz. **Sennheiser Model MD-406 Dynamic Hand Mike**—Net Each. . . . . \$62.00

### MODEL MD-407/HN DYNAMIC DIRECTIONAL MICROPHONE (FIG. D)

Super-directional dynamic mike offers a remarkably linear response over a wide range. Very efficient damping extends over the entire range. **Frequency Range:**  $\pm 3$  db, 100-12,000 cps. **Directionality:** Cardioid. **Output Level:** -56 db ref. 1 mv/10 dynes/cm<sup>2</sup>. **Discrimination:** 12 db in the decisive frequency range. **Impedance:** 200 ohms. **Sennheiser Model MD-407/HN High-Low Cardioid Mike**—Comes with a built-in transformer for direct connection to hi-Z inputs. Lead between mike and hi-Z input may be up to 6 ft. long. (For greater distance, cable transformer TM-514HN is available.) Net Each. . . . . \$32.00

### MODEL MD-403 UNI-DIRECTIONAL MICROPHONE (FIG. E)

Eliminates echos in acoustically unfavorable rooms; suppresses room reflections and background noises. Super cardioid configuration for faithful reproduction. Moving coil insert, with little acoustic resistance; folding foot for table-top use; threaded to accept tripod floor stand. **Frequency Response:**  $\pm 3$  db, 50-12,000 cps. **Output Level:** -56 db, referred to 1 mw/10 dynes/cm<sup>2</sup>. **Impedance:** 200 ohms. **Size:** 2.2" w. x 1.46" d. x 3.54" h. **Weight:** 10.5 oz. **Sennheiser Model MD-403 Uni-directional Mike**—Net Each. . . . . \$37.50

### MODEL MD-403/HN MIKE

Same as above, but with built-in transformer. Can be connected to high or low impedance inputs. Length of hi-Z lead should not exceed 5 ft. Net Each. . . . . \$41.50

### MODEL MD-42 NOISE CANCELLING HAND MICROPHONE (FIG. F)

Specially designed to obtain excellent speech transmission under exceptionally bad acoustic conditions. The MD-42 neutralizes cophasal noises and echos. Thus, by holding the microphone close to the desired source, unwanted environmental sounds are eliminated. **Frequency Response:** 200-10,000 cps. **Directionality:** Cardioid. **Impedance:** 200 ohms. **Size:** 2" dia. x 5" lg. **Weight:** 6.5 oz. **Sennheiser Model MD-42 Noise Cancelling Mike**—Net Each. . . . . \$48.00

### MODEL MM-23 MAGNETIC LAPEL MICROPHONE (FIG. G)

Inconspicuous, miniature mike is excellent for concealed recording of speech using dictating machines. Looks like a pin when inserted in lapel. Good audibility. **Frequency Range:**  $\pm 3$  db, 400-1000 cps and  $\pm 4$  db, 1000-4000 cps. **Output Level:** -61 db ref. 1 mv/10 dynes/cm<sup>2</sup>. **Impedance:** Specify 200 or 2K ohms. **Size:** 3/4" x 1/2" x 3/8" thick with 1/4" dia. lapel button. **Weight:** 0.2 oz. **Sennheiser Model MM-23 Lapel Microphone**—Specify 200 or 2K ohms. Net Ea. . . \$15.95

### MODEL MM-61 MAGNETIC "FOUNTAIN PEN" MICROPHONE (FIG. H)

Inconspicuous design particularly suited for dictation applications. **Frequency Range:**  $\pm 3$  db, 400-1000 cps and  $\pm 4$  db, 1000-4000 cps. **Output Level:** -61 db ref. 1 mv/10 dynes/cm<sup>2</sup>. **Impedance:** Specify 200 or 1K ohms. **Size:** 3 3/4" l. x 3/8" dia. **Weight:** 0.25 oz. **Sennheiser Model MM-61 "Fountain Pen" Mike**—Specify impedance. Net Ea. . . \$16.95

## ACCESSORIES

**Sennheiser Model MC-1 Connecting Cable**—Pigtails on one end, connector on the other. For Models MD-21 and MD-408. Net Each. . . . . \$6.90  
**Sennheiser Model MC-2 Connecting Cable**—23 ft. long. For Models MD-42 and MD-406. Net Each. . . . . \$9.50  
**Sennheiser Model MC-3 Connecting Cable**—With standard phone plug. For Model MD-21/HN. Net Each. . . . . \$8.50

