OMNI-DIRECTIONAL DYNAMIC
Dual-Impedance

General: The Model "530" Microphone is a slender moving coil microphone, built to provide wide-range reproduction of music and voice and featuring an omni-directional pickup pattern. The microphone has complete versatility and reliability for outdoor and indoor use and may be used in the following manners:

1. Mounted in swivel adapter on a conventional floor or desk stand.
2. Quick disengage feature permits the microphone to be removed from the swivel adapter for use as a hand, audience participation, interview microphone, etc.
3. Equipped with adjustable lavalier cord and belt clip, the microphone may be used as a wearable unit by lecturers, broadcast announcers, etc.
4. Readily accessible impedance switch permits quick change from the high impedance setting common in P.A. work, to the low impedance setting for use with long lines, broadcast equipment, etc.
5. When equipped with the accessory switch adapter Model A500 (separately available), the unit will serve in applications where an "ON-OFF" switch is necessary at the microphone.

Connections: The microphone cable plug is the Cannon XL-3-11 plug. The cable shield is connected to the No. 1 pin; the black conductor is connected to the No. 2 pin; and the white conductor to the No. 3 pin.

The Model "530" microphone is dual-impedance, that is, when used with the swivel adapter, it may be connected to a 50-250 ohm line or to a high impedance input.

Connections: The Model "530" Microphone is a dual-impedance microphone. It may be connected directly to a 50-250 ohm line or to a high impedance input. Selection of these impedances is accomplished by removing the impedance switch cover plate on the microphone and changing the position of the switch. The switch positions are marked "L" for low impedance (50-250 ohms) and "H" for high impedance (35,000 ohms). The center position of the impedance switch is the "OFF" position.

Applications: The Microphone is ideal for high quality public address, theater stage sound systems, and all recording applications where an omni-directional microphone may be desired. Model "530" is especially recommended for "interview" type use where the "hand-a-ability" of the microphone is important. The microphone may be used for either a single performer, a dialogue, a group, an orchestra, practically all individual and group applications. For studio broadcasting, TV use, and similar applications where ultimate in quality is desired, Model 525 Concert Line Studio Microphone is recommended. In reverberant locations where feedback might be a problem, or for distance pickup, a directional microphone, such as Model 300 Gradient (Bi-directional) or Model 333 Ultra Cardioid (Uni-directional) should be employed.

Installation: The Model "530", when used with the swivel adapter, has a standard 5/8"-27 thread and may be mounted on any conventional desk, banquet or floor stand. Adapter Stand Couplers are available at no charge for 5/8" pipe thread or 5/8"-24 thread. (Write Shure Brothers, Inc.) To avoid A.C. hum induction when long lines are used, care should be taken that the cable does not parallel A.C. power lines for long distances.

Connections: The Microphone is a dual-impedance microphone. It may be connected directly to a 50-250 ohm line or to a high impedance input. Selection of these impedances is accomplished by removing the impedance switch cover plate on the microphone and changing the position of the switch. The switch positions are marked "L" for low impedance (50-250 ohms) and "H" for high impedance (35,000 ohms). The center position of the impedance switch is the "OFF" position.
Operation: No special precaution beyond ordinary care is necessary in the operation of the Model "530" Microphone. It will operate efficiently and dependably under all ordinary conditions in hot and cold climates. To retain the full strength of the highly efficient permanent magnet and to maintain alignment of the structure, dropping or other severe mechanical shocks should be avoided.

The swivel adapter fits conventional floor stands, desk stands and the Shure 338B Desk Stand. The microphone may be easily removed from this adapter for use as a hand microphone. Additional versatility in the use of the microphone is obtained by using the lavalier cord in applications where freedom of both hands is necessary. Fig. C illustrates use of these accessories. An accessory "ON-OFF" switch Model A500 is available for ready installation in place of the "impedance switch cover." It requires no soldering or rewiring.

Specifications

1000 C.P.S. Response
Model 530 "L" Position
Open circuit Voltage Level..................... - 83 db"n
Load with 150 ohms.................. -90 db"n
Power Level into 150 ohms.................. -61 db"n
RETMA Microphone Rating Gm (Sensitivity).-154.7 db"n
Model 530 "H" Position
Open Circuit Voltage Level..................... -61 db"n
Load with 100,000 ohms.................. -63 db"n
RETMA Microphone Rating Gm (Sensitivity). -157 db"n

1 db = 1 volt per Microbar.
0 db = 1 milliwatt with 10 Microbars.

Recommended Load Impedance:
Model 530 "L" position 50-250 ohms.
Model 530 "H" position 100,000 ohms or more.

Guarantee: Each microphone is guaranteed to be free from electrical and mechanical defects for a period of one year from date of shipment from factory, provided all instructions are complied with fully. In case of damage, return the microphone to the factory for repairs. Our guarantee is voided if the microphone is subjected to accident or abuse or if the case is opened.

MODEL 530

Architect's Specifications
The microphone shall be a moving coil type microphone with a frequency range of 50 to 15,000 c.p.s. This unit shall have an omni-directional horizontal polar characteristic. The microphone shall be equipped with a two-position impedance change switch for adjusting the microphone rating impedance to 150 ohms or 40,000 ohms. The microphone rating Gm (sensitivity) at 1000 c.p.s. shall be within ± 3 db of the following levels:
"L" Position of switch............-154.7 db
"H" Position of switch............-157 db
RETMA Standard SE-105 August 1949.

The microphone shall be provided with a swivel adapter adjustable through 90° from vertical to horizontal, a lavalier cord, a belt clip and a detachable Cannon cable connector capable of connecting to a two-conductor shielded cable. The microphone swivel adapter will mount on a stand having 5/8"-27 thread. The overall dimensions shall be 7 3/4" in length and 1 3/4" in diameter.

Response-Frequency Characteristic Model 530 Microphone