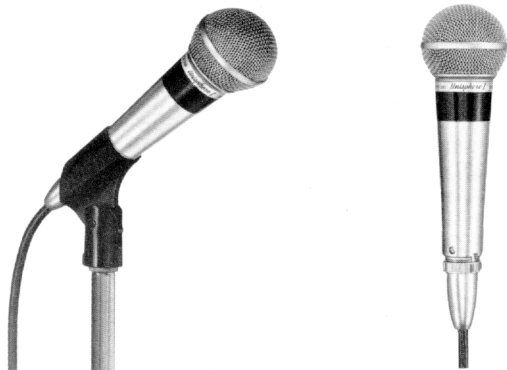


UNIDIRECTIONAL DYNAMIC MICROPHONE



GENERAL

The Model 565 UNISPHERE® I is a dual-impedance unidirectional dynamic microphone with a strong, built-in wire-mesh spherical front that contains a very effective filter designed to provide excellent protection from wind and "pop" (explosive breath sounds). The unit provides wide range reproduction of music and voice — can be effectively used outdoors and indoors.

The UNISPHERE I is ideal for use by professional entertainers in high quality theater-stage sound systems and recording, as well as in critical public-address systems such as those used in political conventions and legislatures, convention halls, hotels, public auditoriums, stadiums, cathedrals and churches.

The UNISPHERE I features an exceptionally uniform and effective unidirectional pickup pattern — provides a solution to feedback problems in reverberant locations, permits best utilization of space in small studios, facilitates orchestral placement, and provides practically complete exclusion of unwanted noises.

Microphone Features:

- A wire-mesh screen and built-in filter provides protection from wind and "pop" (explosive breath sounds). Enables singers and speakers to perform close to the microphone
- Unusually effective cardioid pickup pattern reduces feedback (annoying loudspeaker "squeals") and prevents echoing (boominess) that sometimes occurs in partially filled halls. Can also be used closer to loudspeakers than usual without creating feedback problems
- Excellent reproduction of voice and music
- Shock mounted cartridge for quiet operation
- Supplied with swivel adapter that permits the microphone to be tilted through 90° from vertical to horizontal, suitable for mounting on a stand with a 5/8"-27 thread
- Strong, detachable cable especially selected for effective shielding from hum pickup
- Versatility — for use in the hand or on a stand — indoors or outdoors
- Dependability under all operating conditions

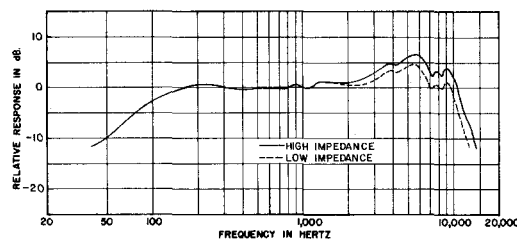
SPECIFICATIONS

Type

Dynamic

Frequency Response

50 to 15,000 Hz (See Figure 1)



FREQUENCY RESPONSE

FIGURE 1

Polar Pattern

Cardioid (unidirectional) pattern — Effective rejection of sound at the rear of the microphone is uniform at all frequencies, while front pickup characteristics are uniform about the axis. (See Figure 2)

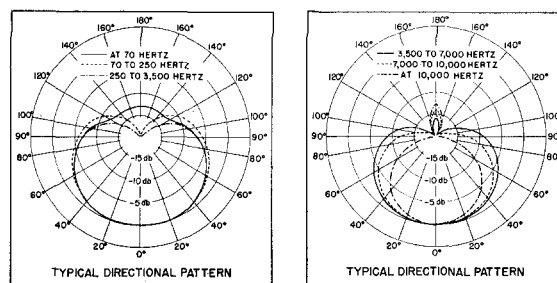
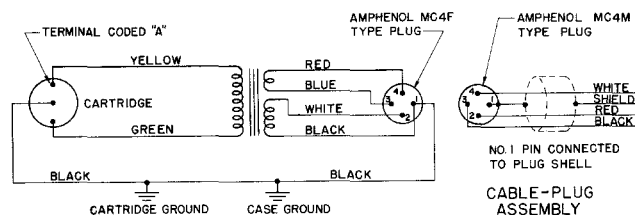


FIGURE 2

Impedance

Dual. Microphone rating impedance is 150 ohms (260 ohms actual), for connection to microphone inputs rated at 19 to 300 ohms, and "High" for connection to high-impedance microphone inputs. Impedance selected by choice of cable leads connected. See Figure 3 and section on Impedance Selection.

POSITIVE PRESSURE PRODUCES POSITIVE VOLTAGE ON PIN 2 WITH RESPECT TO PIN 1 (HIGH IMPEDANCE) AND PIN 4 WITH RESPECT TO PIN 3 (LOW IMPEDANCE).



INTERNAL CONNECTIONS

FIGURE 3

Output Level (at 1000 Hz)

Low Impedance

Open Circuit Voltage -76 dB* (.16 mV)
Power Level -56 dB**

High Impedance

Open Circuit Voltage -53 dB* (2.2 mV)
*0 dB = 1 volt per microbar.
**0 dB = 1 milliwatt with 10 microbars.

Cable

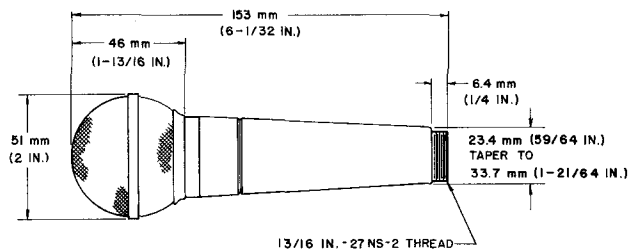
4.6 meter (15 ft) three-conductor shielded with Amphenol MC4M connector on the microphone end

Case

Chrome-plated die-casting with steel mesh grille

Dimensions

See Figure 4



OVERALL DIMENSIONS
FIGURE 4

Net Weight (less cable)

298 grams (10½ ounces)

IMPEDANCE SELECTION

The Model 565 is dual impedance for connection to microphone inputs rated at 19 to 300 ohms or to high-impedance microphone inputs.

Either high- or low-impedance operation is selected by the leads chosen for connection at the equipment end of the microphone cable. For high impedance, the RED lead is the "hot" conductor; the shield is connected to the amplifier or chassis ground. For low impedance, the BLACK and WHITE leads are the "hot" conductors; the shield is connected to the amplifier or chassis ground.

The low-impedance connection is recommended where long cable lengths are required or under conditions of severe hum disturbance. The permissible cable length is practically unlimited, since neither response nor level is appreciably affected. For use with high-impedance amplifiers, the Shure Model A95 Series Line Matching Transformers are available for coupling a low-impedance line to the amplifier input. The Model A95 Series transformers permit coupling a 19 to 300 ohm microphone line to a high-impedance input.

PHASING

To test two microphones for proper phasing, connect them to an amplifier and talk or sing into them while holding them three or four inches apart. The sound from the speakers should be the same when talking into either microphone or directly between them if they are in phase with each other. If the sound drops drastically, or if a dead spot is found when talking between

the two microphones, the microphones are out of phase. All microphones should be tested in this manner to insure that they are in phase with each other.

To change the phase of a low-impedance microphone cable, interchange the BLACK and WHITE cable leads where they are connected to the sound system. To change the phase in the microphone, the microphone cartridge leads must be interchanged (see Figure 3). This should be performed by your dealer, the Shure Factory Service Department, or other qualified service personnel.

ARCHITECTS' SPECIFICATIONS

The microphone shall be the Shure Model 565 or equivalent. The microphone shall be a moving coil (dynamic) type with a frequency response of 50 to 15,000 Hz. The unit shall have a "cardioid" polar characteristic. The cancellation at the sides shall be approximately 6 dB, and the cancellation at the rear shall be 15 to 20 dB. The microphone shall be dual impedance with a rated impedance of 150 ohms for connection to microphone inputs rated at 25 to 200 ohms and High for connection to high-impedance microphone inputs.

The microphone output shall be:

Low Impedance -56 dB
(0 dB = 1 milliwatt with 10 microbars)
High Impedance -53 dB
(0 dB = 1 volt per microbar)

The microphone shall be provided with a swivel adapter, adjustable through 90° from vertical to horizontal and suitable for mounting on a stand having a 5/8"-27 thread. The microphone shall also be provided with a detachable 4.6m (15 ft) three-conductor shielded cable with an Amphenol MC4M or equivalent connector at the microphone end. The overall dimensions of the microphone shall be 153 mm (6-1/32 in.) in length and 51 mm (2 in.) in diameter.

FURNISHED ACCESSORY

Swivel Adapter Model A25B

OPTIONAL ACCESSORIES

Line Matching Transformer Model A95 Series
Desk Stand Model S33B, S37A, S39A or S40A
Dual Microphone Mount Model A26M
Quick Disconnect Isolation Unit ... Model A45 or A45B
Isolation Mount Model A55M
Windscreen Model A61WS Series

REPLACEMENT PARTS

Dynamic Cartridge R65
Cable and Plug Assembly C56
Screen Assembly RS65
Case Assembly Model RK42C

GUARANTEE

This Shure product is guaranteed in normal use to be free from electrical and mechanical defects for a period of one year from the date of purchase. Please retain proof of purchase date. This guarantee includes all parts and labor.

SHIPPING INSTRUCTIONS

Carefully repack the unit and return it prepaid to the factory. If outside the United States, return the unit to your dealer or Authorized Shure Service Center for repair. The unit will be returned to you prepaid.