



## UNIDIRECTIONAL DYNAMIC MICROPHONES

## GENERAL

The Model 565S 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 theatre-stage sound systems and recording, as well as 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 an easy 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.

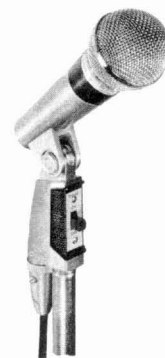
## Microphone Features:

- A wire-mesh screen and built-in filter provides protection from wind and "pop" (explosive breath sounds). This filter also enables singers and speakers to perform close to the microphone.
- Unusually effective cardioid pickup pattern reduces feedback (annoying loudspeaker "squeals"). In addition it prevents echoing (boominess) that sometimes occurs in partially-filled halls. This microphone can also be used closer to loudspeakers than usual, without creating feedback problems.
- A built-in On-Off switch as an integral part of the receptacle-swivel assembly.
- Response especially effective for announcing, narration, vocal music and combo groups.
- Cartridge is shock mounted for quiet operation.
- A strong detachable cable especially selected because of its effective shielding from "hum pickup."
- Versatility—for use indoors or outdoors.
- Dependability under all operating conditions.

The Model 565S is dual impedance for connection to microphone inputs rated at 25 to 200 ohms or to high-impedance microphone inputs.

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. Shure Model A95 Series Line Matching Transformers are available for use in those cases where a low-impedance microphone line must operate with an amplifier with a high-impedance input. These transformers provide a proper impedance match between a 25-200 ohm microphone line and a high-impedance input, and are available with various input and output connectors.

**Important:** Shure Microphone Cables are selected after exhaustive tests to insure superior performance in microphones because of low capacities, superior shielding properties and unusually long life under severe use.



Cables with plastic insulation should not be subjected to excessive soldering-iron heat. Carefully clean and tin the conductors and the connections to which the conductors are to be soldered. The soldering operation can then be done with a minimum of heat, thereby avoiding any possibility of damage to the cable.

**Variation: Model 565SC.** Same as Model 565S except supplied with standard phone plug (connected for high-impedance operation) on equipment end of cable (See Specifications for detail on cable.)

## ARCHITECTS' SPECIFICATIONS

The microphone shall be the Shure Model 565S (565SC) or equivalent. The microphone shall be a moving coil (dynamic) type with a frequency response of 40 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 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 receptacle-swivel assembly with an integral On-Off switch and shall be 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 on the microphone end. Model 565SC only: A standard phone plug (connected for high-impedance operation) shall be provided on the equipment end of the cable. The overall dimensions of the microphone shall be 157 mm (6-3/16 in.) in depth, 51 mm (2 in.) in diameter (width), and 132 mm (5-3/16 in.) in height.

## SPECIFICATIONS

### Type

Dynamic

### Frequency Response

40 to 15,000 Hz (See Figure A)

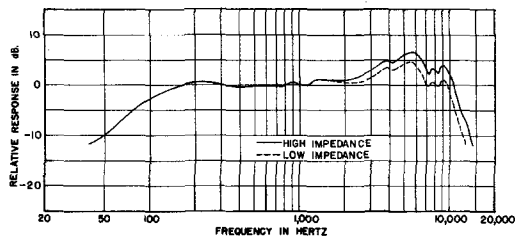


FIGURE A

### 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 D)

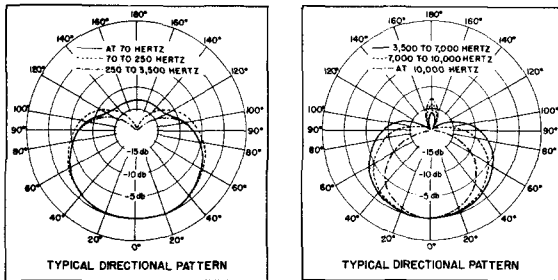
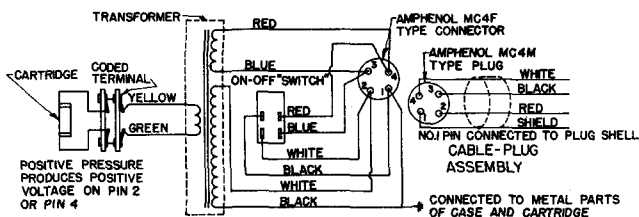


FIGURE D

### Microphone Rating Impedance

Dual. 150 ohms for connection to microphone inputs rated at 25 to 200 ohms and High for connection to high-impedance microphone inputs. Connect to cable shield and red conductor for high-impedance amplifier inputs. Connect to black and white conductors for balanced line low-or medium-impedance amplifier input. The shield is connected to the metal parts of the microphone. (See Figure B)



INTERNAL CONNECTIONS  
FIGURE B

### 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 per 10 microbars

### Cable

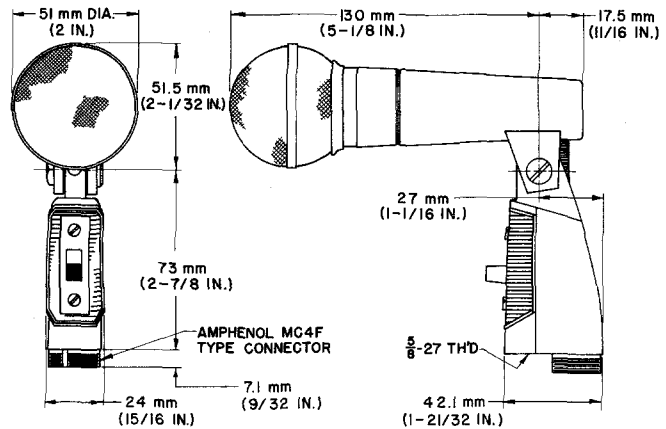
4.6 meter (15 ft) three-conductor shielded with Amphenol MC4M type microphone plug on microphone end. Cable for Model 565SC also includes standard phone plug (connected for high-impedance operation) on equipment end.

### Case

Chrome-plated die-casting with steel mesh grille

### Dimensions

See Figure C



OVERALL DIMENSIONS  
FIGURE C

### Net Weight (less cable)

454 grams (1 lb)

### Packaged Weight

1.07 kg (2 lb, 6 oz)

## OPTIONAL ACCESSORIES

Line Matching Transformer ..... Model A95 Series  
Desk Stand ..... Model S33B, S37A, S39A or S40A  
Quick Disconnect Isolation Unit ..... Model A47  
Carrying Case ..... Model AC56S  
Windscreen ..... Model A61WS Series

## REPLACEMENT PARTS

Dynamic Cartridge ..... R65  
Cable and Plug Assembly  
Model 565S ..... C56  
Model 565SC ..... C56P  
Screen and Grille Assembly ..... RS65  
Case Assembly ..... Model RK41C

## GUARANTEE

This Shure product is guaranteed in normal use to be free from electrical and mechanical defects for a period of one year from date of purchase. Please retain proof of purchase date. This guarantee includes all parts and labor. This guarantee is in lieu of any and all other guarantees or warranties, express or implied, and there shall be no recovery for any consequential or incidental damages.

## SHIPPING INSTRUCTIONS

Carefully repack the unit and return it prepaid to:  
Shure Brothers Incorporated  
Attention: Service Department  
1501 West Shure Drive  
Arlington Heights, Illinois 60004

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.