

MICROPHONES AND ELECTRONIC COMPONENTS

AREA CODE 312/328-9000 . CABLE SHUREMICRO

MODEL 547 UNIDYNE III

UNIDIRECTIONAL DYNAMIC MICROPHONE WITH BUILT-IN VIBRATION-ISOLATION SHOCK MOUNT



The Model 547 Unidyne III Microphone is a unidirectional dynamic microphone built to provide wide range reproduction of music and voice.

The microphone is ideal for use by professional entertainers in high quality theatre-stage sound systems, recording, cathedrals and churches, and other critical public address systems such as those used in political conventions and legislatures, hotels, stadiums, and public auditoriums.

The Model 547 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.

The built-in vibration-isolation shock mount prevents the pickup of mechanical vibrations.

The microphone features:

- · Unusually effective cardioid pickup pattern.
- Cartridge and microphone body separately shock mounted for quiet operation.
- · Convenient impedance selection.
- An accessory switch adapter furnished to serve in applications where an ON-OFF switch is necessary at the microphone.
- · Positive action detent switch.
- · Dependability under all operating conditions.

The Model 547 is dual impedance for connection into 30-50 ohm or 150-250 ohm line.

The microphone 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, Shure Model A95A Line Matching Transformer is available for coupling the low impedance line to the amplifier input. The Shure Model A95A transformer permits coupling a low impedance line to the high impedance input.

FURNISHED ACCESSORIES

OPTIONAL ACCESSORIES

Line Matching Transformer	A95A
Vibration-Isolation Stand	
Desk Stand	S33B
Quick Disconnect Isolation Unit	A45
Windscreen Assembly	A2WS

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.

MODEL 547 ARCHITECT'S SPECIFICATIONS

The microphone shall be Shure Model 547 or equivalent. A moving coil (dynamic) microphone with a frequency range of 40 to 15,000 Hz, this unit shall have a cardioid polar characteristic. The cancellation at the sides shall be approximately 6db and the cancellation at the rear shall be 15 to 20 db. The microphone shall be equipped with a three-position impedance "Off" switch for adjusting the microphone rating impedance for 50 ohms. (EIA Rating Impedance: 38 ohms. 150 ohms.)

The microphone output shall be:

50 ohms impedance —56 db

(0 db = 1 milliwatt with 10 microbars)

250 ohms impedance -56 db

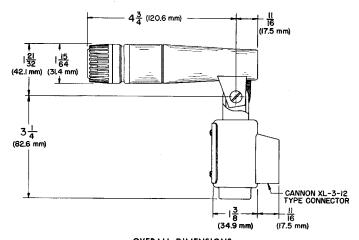
(0 db = 1 milliwatt with 10 microbars)

The microphone rating Gm (sensitivity) at 1,000 Hz. shall be within \pm 3 db of the following levels.

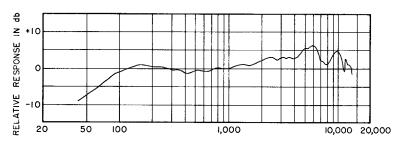
Low Impedance	—149	db
Medium Impedance	148	db
EIA Standard SE-105 August 1949		

The microphone shall be provided with a swivel adjustable through 180.° The microphone shall be equipped with a vibration-isolation unit in combination with the stand connector. The microphone will mount on a stand having 3/8"-27 thread.

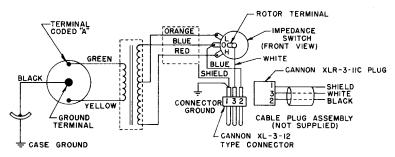
The overall dimensions shall be $4^{29}3^{2}$ (124.7 mm) in height, 1%" (34.9 mm) in width, and 6%" (155.5 mm) in depth.



OVERALL DIMENSIONS FIGURE A



FREQUENCY RESPONSE IN HERTZ
FIGURE B



POSITIVE PRESSURE PRODUCES POSITIVE VOLTAGE AT PIN 2 WITH RESPECT TO PIN 3

INTERNAL CONNECTIONS
FIGURE C

SPECIFICATIONS

Dynamic Type:

Frequency

Response: 40 to 15,000 Hz. (See Figure B)

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)

Impedance: Dual. Choice of 30-50 ohms "L" or 150-250 ohms "H," selected

by impedance switch. (See "switch" below. Factory set to 150-250

ohms.)

Output Level: 1,000 Hz. response.

Power Level _____ 56.0 db**

EIA Microphone Rating

Gm (sensitivity)149.0 db***

EIA Microphone Rating

Gm (sensitivity)......148.0 db***

*0 db = 1 volt per microbar. **0 db = 1 milliwatt with 10 microbars.

***0 db = EIA Standard SE-105, August 1949.

Impedance selection switch with center position "OFF." May be used with "Tamper-proof" cover, or accessory (included) "ON-Switch:

OFF" knob.

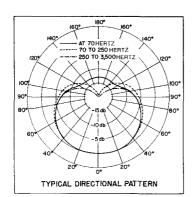
Swivel: Positive action life-time swivel permits tilting of head through

Special vibration-isolation of rubber construction. Shock Mount:

Chrome-plated die-cast case and "Armo-Dur." Case:

Dimensions: See Figure A

Net Weight: 1½ pounds (510 grams)



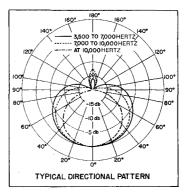


FIGURE D