



Electro-Voice®

a MARK IV company

Model RE55 Dynamic Omnidirectional Microphone

SPECIFICATIONS

Generating Element:

Dynamic

Frequency Response:

40 to 20,000 Hz

Polar Pattern:

Omnidirectional

Impedance:

Lo-Z (150 ohms)

Output Level:

-57

(0 dB = 1 mW/10 dynes/cm²)

EIA Sensitivity:

-150 dB

Diaphragm:

Electro-Voice Acoustalloy®

Case Material:

Steel

Dimensions:

266.7 cm (10.50 in.) long (overall)

30.9 cm (1.22 in.) major diameter

19 mm (0.75 in.) shank diameter

Finish:

Fawn beige micomatte

Net Weight:

241 g (8.50 oz), without cable

Cable:

4.6 m (15 ft), 2-conductor, shielded, rubber-jacketed, broadcast type cable with Switchcraft A3F connector

Cable Connector:

Mates with Switchcraft A3F

Accessories Furnished:

Model 310A clamp

Vinyl pouch

Optional Accessories:

Model 307 suspension mount

Model 312A stand adapter

Model 340 security clamp

Model 342 stud mount adapter

Model 355A windscreen

Model 400 desk stand

Model 422 desk stand

DESCRIPTION

The Electro-Voice Model RE55 is a dynamic omnidirectional microphone designed for the most demanding professional applications. Ideal for boom or stand mounting in recording and broadcast use, it is excellent also for close-up hand held use in stage and interview situations.

Smooth, wide range response, high output level, and low sensitivity to mechanical shock, combined with functional "easy to hold" styling, make the RE55 one of the most versatile professional microphones ever created. The nonreflecting, fawn beige micomatte finish eliminates hot spots for "on camera" use.

The microphone features the exclusive, non-metallic Electro-Voice Acoustalloy® diaphragm that assures very smooth frequency response and is impervious to damage from extremes of temperature and humidity.

APPLICATIONS

The RE55, an omnidirectional microphone, is outstanding in those situations where uniform sensitivity in all directions is desirable.

1. Frequency response, flat and uniform across the entire usable range makes the RE55 a good choice for:
 - a. Symphony and other wide range recording situations where reverberation is not a problem.
 - b. Calibration for use as a secondary standard for acoustic measurements.
2. Small diameter (3/4" shank) makes the RE55 comfortable and convenient for hand held use by:
 - a. Vocalists, for stage and television work.
 - b. News reporters for interviews.

DIRECTIVITY INDEX

Directivity Index (Figure 4) is computed from polar curves run at each one-third-octave center frequency across the frequency range. D_i shows directivity in dB with respect to on-axis frequency response and may be applied to the on-axis response to show power response. (See Acoustical Engineering, Olsen, pp 331 & 332.) This data is useful in predetermining regenerative feedback conditions for directional elements and random incidence response for omnidirectional elements.

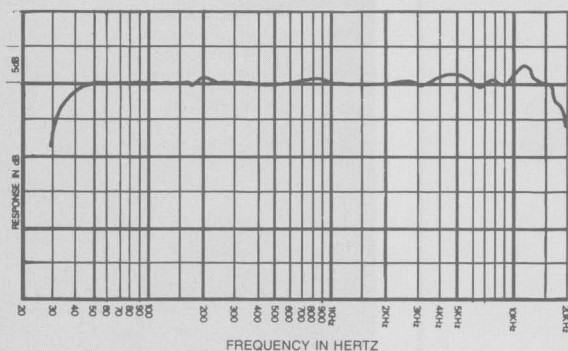


FIGURE 1 — Axial Response

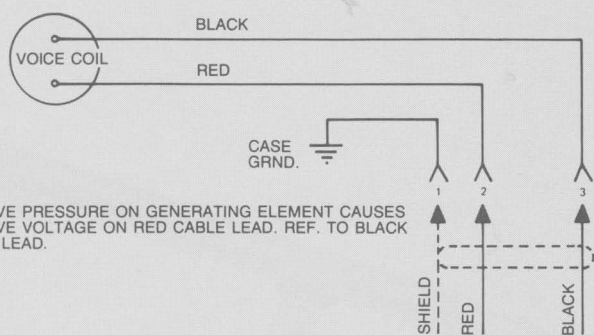


FIGURE 2 — Wiring Diagram

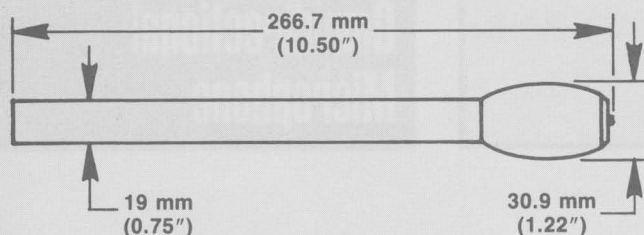


FIGURE 3 — Dimensions

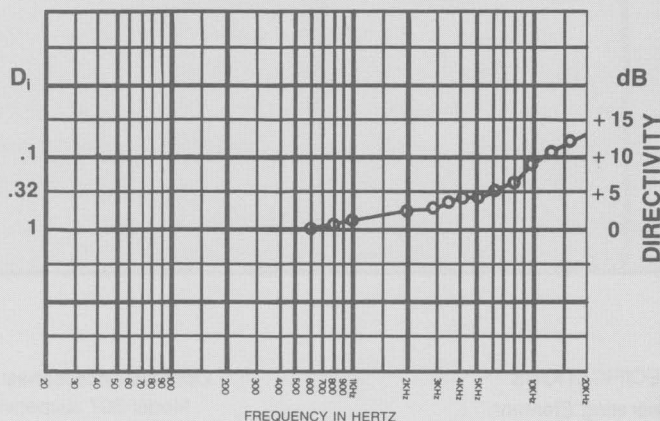


FIGURE 4 — Directivity Index

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone shall be an omnidirectional, dynamic type with wide range frequency response, uniform from 40 to 20,000 Hz. The diaphragm shall be non-metallic Acoustalloy and shall have a magnetic shield to prevent dust and magnetic particles from reaching the diaphragm. The impedance shall be such that the microphone will match all low impedance inputs (50 to 250 ohms). The line shall be balanced to ground and phased.

The output level shall be -57 dB (0 dB $= 1$ mW/10 dynes/cm²). EIA sensitivity rating shall be -150 dB. The case shall be made of steel. Overall length of the microphone shall be 266.7 mm (10.50 in.). Major diameter shall not exceed 30.9 mm (1.22 in.), and minor (or shank) diameter shall not exceed 19 mm (0.75 in.). Finish shall be nonreflecting fawn beige micomatte. A 4.6 m (15 ft), 2-conductor, shielded, broadcast type, rubber-jacketed cable with Switchcraft

A3F connector installed, shall be provided. The microphone shall have a built-in cable connector such that it will mate with the Switchcraft A3F. A Model 310A stand clamp shall be supplied. The Electro-Voice Model RE55 is specified.

WARRANTY (Limited)

Electro-Voice Professional, PL & BK Series Microphones are guaranteed against malfunction from any cause for a period of two years from date of original purchase. Also, these microphones are guaranteed without time limit against malfunction in the acoustic system due to defects in workmanship and material. Any active electronics incorporated in the microphone are guaranteed for three years from date of original purchase for parts and labor against such malfunction. If such malfunction occurs, microphone will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not extend

to finish, appearance items, cables, cable connectors, switches, or malfunction due to abuse or operation under other than specified conditions, nor does it extend to incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. Repair by other than Electro-Voice or its authorized warranty service agencies will void this guarantee. A list of authorized warranty service centers is available from Electro-Voice, Inc., 600 Cecil Street, Buchanan, MI 49107 (AC/616-695-6831); or Electro-Voice West, 8234 Doe Avenue, Visalia, CA 93291 (AC/209-651-7777). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Service and repair address for this product: Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107.

Specifications subject to change without notice.



ELECTRO-VOICE, INC., 600 Cecil Street, Buchanan, Michigan 49107

MANUFACTURING PLANTS AT ■ BUCHANAN, MI ■ NEWPORT, TN ■ SEVIERVILLE, TN ■ OKLAHOMA CITY, OK ■ GANANOQUE, ONT.
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