

DO56

Omnidirectional Dynamic Microphone

- Integral shock-mounting system incorporates butyl-rubber rings for excellent isolation from mechanical shock
- Rugged design
- Comes complete with stand clamp and pouch

Description and Applications

The Electro-Voice DO56 is a specially shock-isolated omnidirectional dynamic microphone created for the most exacting professional applications. Smooth response and high resistance to mechanical shock combined with functional, "easy to hold" styling make the DO56 ideal for vocalists in stage and television work, as well as for news and sports broadcasters for interviews and commentary.

The DO56 is a shock-mounting triumph. All handling noise, clothing noises, and even cord shock and vibration are isolated from the microphone element so effectively that almost no vibration is amplified.

Shock isolation of the DO56 is provided by shock rings holding the internal parts of the microphone and mounted to a steel sleeve which slips snugly into the outer case. Shock isolation is further enhanced by having the main acoustic cavity shock-isolated with the dynamic element and segregated from the rest of the case. The shock-isolation rings are made of butyl rubber which not only acts as the spring in the isolation system, but also converts shock energy to heat.

The rear outer case is constructed of steel and aluminum while the front portion of the

case is made from thick-wall aluminum to provide maximum durability and proper balance in the hand. The DO56 employs a Memraflex™ grille screen that bounces back to keep its shape. The microphone is finished in attractive fawn beige.

The DO56 comes complete with a built-in XLR connector. (See Figure 3, Wiring Diagram, for wiring information and pin polarity.) Stand-clamp adapter and protective pouch are also provided with the DO56.

The smooth, wide-range response of the DO56 has been specially shaped for effective up-close vocal pickup under a wide variety of professional conditions. Response rolls smoothly below 200 Hz (-8 dB at 50 Hz) with a broad rise of about 3 dB in the 2,000-12,000-Hz range (see Figure 1). The result is a bright-yet-natural vocal quality without the low-frequency noise problems that can plague microphones with flat bass response.

The DO56 features the exclusive nonmetallic Electro-Voice Acoustalloy® diaphragm that assures very smooth frequency response and is impervious to damage from extremes of temperature and humidity. A carefully designed high-density Acoustifoam™ blast filter provides excellent protection from ex-

cessive sibilance and annoying P-popping, as well as providing protection for the diaphragm from dust and magnetic particles.

Architects' and Engineers' Specifications

The microphone shall be an omnidirectional-dynamic type with wide-range response uniform from 80-18,000 Hz. The diaphragm shall be nonmetallic Acoustalloy® and shall have a high-density Acoustifoam™ blast filter to prevent dust and magnetic particles from reaching the diaphragm. The dynamic element and acoustic cavity shall be shock-isolated from the outer case.

Nominal impedance shall be 150 ohms. The line shall be balanced to ground and phased. The output level shall be -61 dB (0 dB = 1 mW/pascal). EIA sensitivity rating shall be -155 dB. The case shall be made of steel and aluminum. Overall length of the microphone shall be 159 mm (6.25 in.), with a maximum diameter of 37 mm (1.45 in.) and a shank diameter of 19 mm (0.75 in.). Finish shall be fawn beige.

A stand clamp and protective pouch shall be supplied.

The Electro-Voice DO56 is specified.

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Uniform Limited Warranty

Electro-Voice products are guaranteed against malfunction due to defects in materials or workmanship for a specified period, as noted in the individual product-line statement(s) below, or in the individual product data sheet or owner's manual, beginning with the date of original purchase. If such malfunction occurs during the specified period, the product will be repaired or replaced (at our option) without charge. The product will be returned to the customer prepaid. **Exclusions and Limitations:** The Limited Warranty does not apply to: (a) exterior finish or appearance; (b) certain specific items described in the individual product-line statement(s) below, or in the individual product data sheet or owner's manual; (c) malfunction resulting from use or operation of the product other than as specified in the product data sheet or owner's manual; (d) malfunction resulting from misuse or abuse of the product; or (e) malfunction occurring at any time after repairs have been made to the product by anyone other than EVI Audio Service or any of its autho-

rized service representatives. **Obtaining Warranty Service:** To obtain warranty service, a customer must deliver the product, prepaid, to EVI Audio Service or any of its authorized service representatives together with proof of purchase of the product in the form of a bill of sale or receipted invoice. A list of authorized service representatives is available from EVI Audio Service at 600 Cecil Street, Buchanan, MI 49107 (800/234/6831 or FAX 616/695/4743). **Incidental and Consequential Damages Excluded:** Product repair or replacement and return to the customer are the only remedies provided to the customer. Electro-Voice shall not be liable for any incidental or consequential damages including, without limitation, injury to persons or property or loss of use. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. **Other Rights:** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Electro-Voice Wired Microphones are guaranteed against malfunction from any

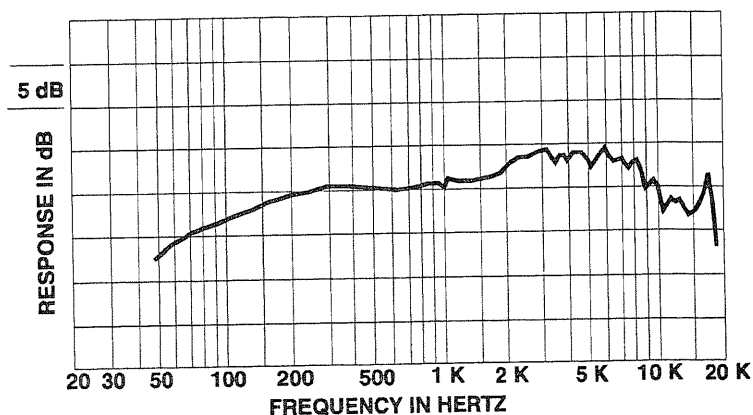
cause for two (2) years from the date of original purchase. In addition, the Limited Warranty for the acoustic system contained in these microphones shall apply for the life of the product, defined as a period of ten (10) years from the date that the manufacture of the specific microphone has been discontinued. Any and all active electronics incorporated in these microphones are guaranteed against malfunction due to defects in materials or workmanship for a period of three (3) years from the date of original purchase. The Limited Warranty does not extend to cables, cable connectors, or switches. Additional details are included in the Uniform Limited Warranty statement.

For warranty repair, service information, or a listing of the repair facilities nearest you, contact the service repair department at: 616/695-6831 or 800/685-2606.

For technical assistance, contact Technical Support at 800/234-6831 or 616/695-6831, M-F, 8:00 a.m. to 5:00 p.m. Eastern Standard time.

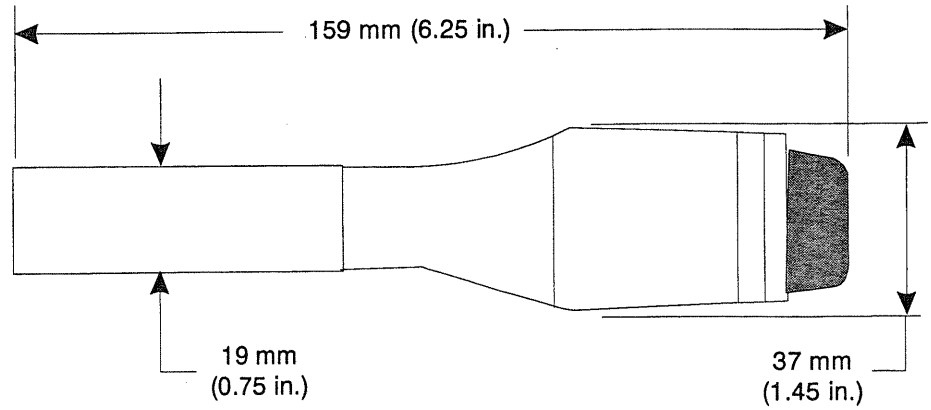
Specifications subject to change without notice.

Figure 1—Axial Response



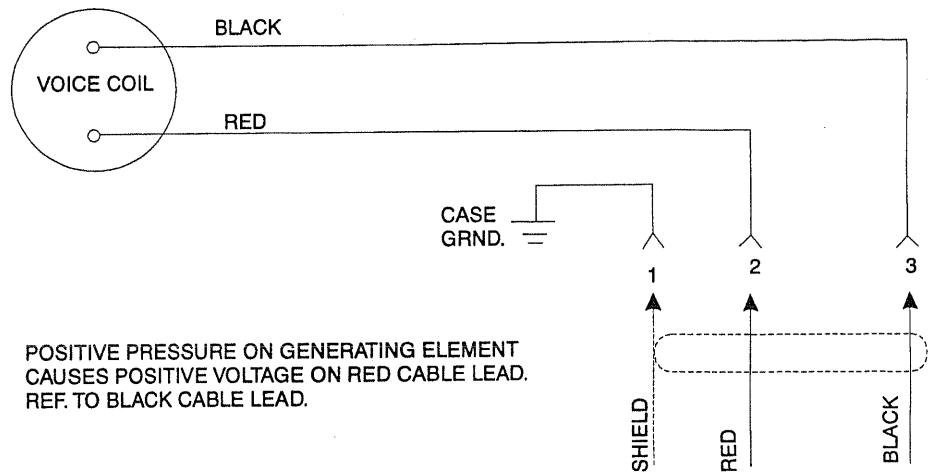
DO56 Omnidirectional Dynamic Microphone

Figure 2—Dimensions



DO56 Omnidirectional Dynamic Microphone

Figure 3—Wiring Diagram



DO56 Omnidirectional Dynamic Microphone

Specifications

Element:

Dynamic

Frequency Response (see Figure 1):

80-18,000 Hz

Polar Pattern:

Omnidirectional

Impedance, Low-Z Nominal:

150 ohms

Output Level (0 dB = 1 mW/pascal):

-61 dB

EIA Sensitivity:

-155 dB

Case Material:

Steel and aluminum

Dimensions (see Figure 2),**Length:**

159 mm (6.25 in.)

Diameter:

37 mm (1.45 in.)

Shank Diameter:

19 mm (0.75 in.)

Finish:

Fawn beige

Accessories Included:

Stand adapter

Protective carrying pouch

Optional Accessories:

351 windscreen

340A security clamp

400 desk stand

422A desk stand

423B desk stand

Net Weight:

185 grams (6.5 oz)

Shipping Weight:

191.4 grams (6.75 oz)

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Electro-Voice®

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616/695-6831, 616/695-1304 Fax