



# Electro-Voice RE50N/D-B Dynamic Interview Microphone User Manual

[Home](#) » [Electro-Voice](#) » Electro-Voice RE50N/D-B Dynamic Interview Microphone User Manual 

## Contents

- [1 Electro-Voice RE50N/D-B Dynamic Interview Microphone](#)
- [2 Description](#)
- [3 Architects' and Engineers' Specifications](#)
- [4 Limited Warranty](#)
- [5 Specifications](#)
- [6 FREQUENTLY ASKED QUESTIONS](#)

**Electro-Voice®**

**Electro-Voice RE50N/D-B Dynamic Interview Microphone**



### **RE50N/D RE50N/D-B Shock-Mounted, Omnidirectional Dynamic Microphones**

- Powerful Electro-Voice neodymium (N/DYM®) magnet results in greater output than with standard alnico magnets
- DynaDamp™ shock-isolation system for low handling noise
- Rugged design
- Choose nonreflecting fawn beige or semigloss “camera” black
- Comes complete with stand clamp and vinyl pouch

### **Description**

- The Electro-Voice RE50N/D and RE50N/D-B shock-mounted, dynamic omnidirectional microphones are offspring of the legendary RE50 microphone. Built with the same rugged design as the RE50, the RE50N/D and RE50N/D-B feature a DynaDamp™ shock mount for greater ruggedness and isolation, and a new neodymium N/DYM® magnet structure to provide increased sensitivity required in exacting professional applications.
- Ideally suited for handheld broadcast and sound reinforcement applications, the RE50N/D and RE50N/D-B have been built for superior isolation from mechanically induced noise. Handling noise, clothing noise, and even cord shock are isolated from the microphone element. Within the microphone's machined-aluminum outercasing, a DynaDamp™ shock mount (manufactured using an advanced vibration-isolation material) surrounds the high-mass internal acoustic chamber and microphone element, resulting in a degree of isolation unprecedented in an omnidirectional dynamic microphone.

- The transducer is protected through a unique interlocking concept, making the RE50N/D and RE50N/D-B practically indestructible with normal use. The transducer, fitted within a high-mass internal case, is shock-isolated within an attractive external case, therefore protecting the transducer from sudden shock. The microphone's diaphragm permits a very smooth response over a wide frequency range, yet it withstands high humidity and temperature extremes, corrosive effects of salt air and severe mechanical shocks. The diaphragm is protected from dust and magnetic particles by a carefully designed integral windscreen and blast filter which also provides excellent protection from wind noise, excessive sibilance and annoying "P-popping." The microphone's Memraflex™ grille is designed to bounce back to its original shape when bumped or dropped.
- The RE50N/D in nonreflecting fawn beige or the RE50N/D-B in "camera" black are ideal for "on-camera" use. Both microphones are supplied with the 323S (black) stand adapter and a zippered, vinyl carrying pouch.

## Architects' and Engineers' Specifications

- The microphone shall be a shock-mounted, omnidirectional, dynamic type with wide-range response uniform from 80 to 13,000 Hz.
- The microphone shall employ a high-mass acoustic chamber, integral with the transducer assembly that shall be shock-isolated within an external aluminum case. The microphone shall have an internal pop blast filter to prevent dust and magnetic particles from reaching the diaphragm. The impedance shall be such that the microphone will match 50-, 150- and 250-ohm inputs. The line shall be balanced to ground and phased.
- The output level shall be -51 dB with 0 dB equalling 1 mW/10 dynes/cm<sup>2</sup>. The magnetic circuit shall be nonwelded and employ a neodymium alloy magnet. The inner case shall be made of steel and the outer case of machined aluminum.
- The microphone shall have a maximum diameter of 49 mm (1.94 in.) and a length of 197 mm (7.75 in.). Shank diameter shall be 25 mm (1.0 in.). Weight shall be 269 g (9.5 oz). Finish shall be nonreflecting fawn beige micromatte (RE50N/D) or semi-gloss black (RE50N/D-B). The microphone shall have a built-in, 3-pin, XLR-type connector, and shall include a 5/8-in.-27-thread stand coupler and a zippered vinyl carrying pouch.
- The Electro-Voice RE50N/D and RE50N/D-B are specified.

## 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 authorized 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

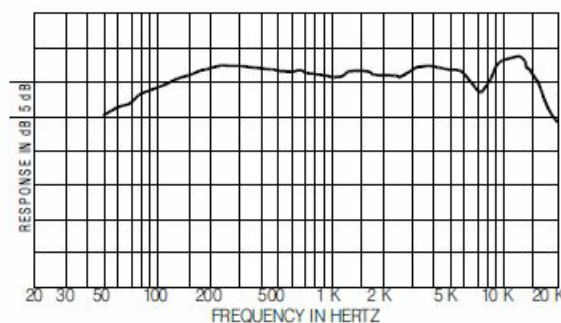
Microphones are guaranteed against malfunction from any cause for two (2) years from the date of original purchase. In addition, the Limited Warranty for the acoustic system contained in these microphones shall apply for the life of the product, defined as a period of ten (10) years from the date that 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 or service information, contact the service repair department at: 616/695-6831 or 800/685-2606.

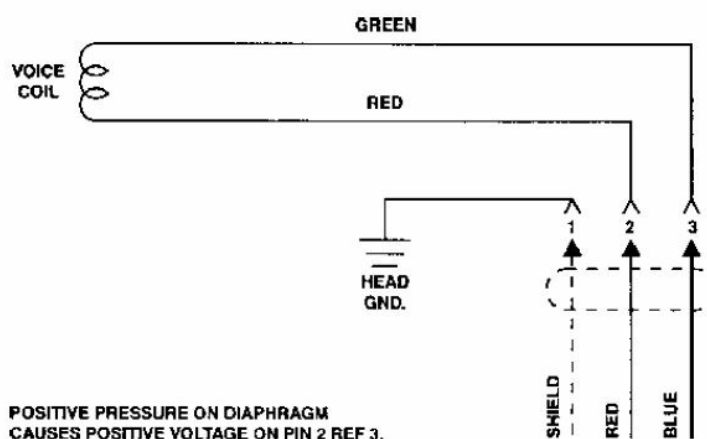
For technical assistance, contact Technical Support at 800/234-6831 or 616/695-6831, M-F, 8:00 a.m. to 5:00 p.m. Eastern Standard Time.

Specifications subject to change without notice.

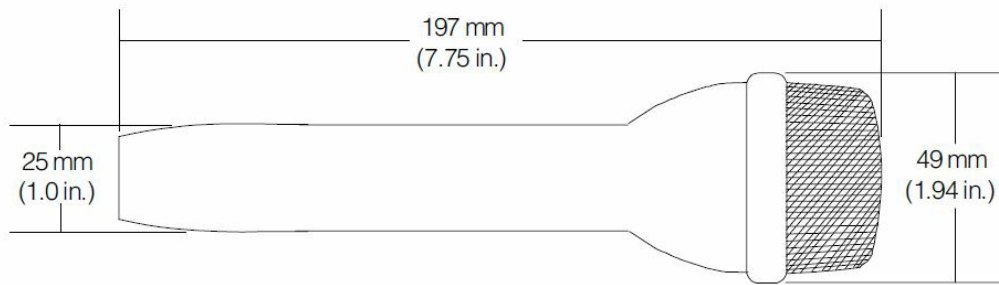
**Figure 1—Frequency Response**



**Figure 2—Wiring Diagram**



**Figure 3—Dimensions**



## Specifications

- **Generating Element:** Dynamic
- **Frequency Response (see Figure 1):** 80-13,000 Hz
- **Polar Pattern:** Omnidirectional
- **Impedance:** 150 ohms balanced Sensitivity at 1 kHz,
- **Open-Circuit Voltage (0 dB = 1 mV/ dyne/cm<sup>2</sup>):** 2.0 mV
- **Power Level (0 dB = 1 mW/10 dynes/cm<sup>2</sup>):** -51 dB
- **Diaphragm Material:**  
Acoustalloy®
- **Magnetic Circuit:**  
N/DYM® magnet in a nonwelded circuit
- **Microphone Connector:**  
3-pin, XLR-type, pin 2 positive
- **Polarity (see Figure 2):** Pin 2 positive, referenced to pin 3 with positive pressure on diaphragm
  - **Case Material:** Aluminum
  - **Finish,**  
RE50N/D: Fawn beige micromatte  
RE50N/D-B: Semigloss “camera” black
- **Accessories Included:** 323S stand adapter (black); zippered vinyl carrying pouch
  - **Optional Accessories:** 323 stand adapter (gray); 400 desk stand; 422A desk stand; 423B desk stand
- **Dimensions (see Figure 3),**
  - **Length:** 197 mm (7.75 in.)
  - **Maximum Diameter:** 49 mm (1.94 in.)
  - **Shank Diameter:** 25 mm (1.0 in.)
- **Package Size,**
  - **Height:** 76.2 mm (3.0 in.)
  - **Width:** 133.4 mm (5.25 in.)
  - **Depth:** 241.3 mm (9.5 in.)
  - **Net Weight:** 269 g (9.5 oz)
  - **Shipping Weight:** 539 g (19 oz)

600 Cecil Street, Buchanan, MI 49107 616/695-6831, 616/695-1304 Fax ©EVI Audio 1998 • Litho in U.S.A.

## FREQUENTLY ASKED QUESTIONS

What is the Electro-Voice RE50N/D-B Dynamic Interview Microphone?

The Electro-Voice RE50N/D-B is a dynamic handheld microphone designed for broadcast and interview applications.

What makes the RE50N/D-B microphone suitable for interviews and broadcasting?

The RE50N/D-B features a unidirectional polar pattern that minimizes background noise and delivers clear and focused audio capture.

Is this microphone suitable for outdoor use and field reporting?

Yes, the RE50N/D-B is built to withstand outdoor conditions and is commonly used in field reporting due to its durability.

What is the frequency response range of the RE50N/D-B microphone?

The microphone typically has a frequency response range that covers the human voice spectrum for clear and natural audio reproduction.

Does the RE50N/D-B microphone require phantom power to operate?

No, the RE50N/D-B is a dynamic microphone and does not require phantom power. It can be used with standard microphone inputs.

Can I connect the RE50N/D-B microphone to a professional audio mixer or a portable recorder?

Yes, the microphone has a standard XLR connector, making it compatible with a wide range of audio equipment.

Is a windscreen included with the RE50N/D-B to reduce wind noise during outdoor recordings?

Yes, a foam windscreen is often included to reduce wind noise and plosives when using the microphone outdoors.

What is the output impedance of the RE50N/D-B microphone?

The microphone typically has a low output impedance, making it compatible with various audio devices.

Can I use the RE50N/D-B microphone for musical performances and recording vocals?

While it is primarily designed for interviews and broadcasting, you can use it for recording vocals if the application suits its characteristics.

How do I clean and maintain the RE50N/D-B Dynamic Interview Microphone?

To clean the microphone, use a soft, damp cloth to wipe the exterior. Avoid exposing it to moisture and extreme temperatures.

What is the ideal environment for using the RE50N/D-B microphone?

The RE50N/D-B is ideal for indoor and outdoor environments, including news reporting, interviews, and live broadcasts.

Can I use the RE50N/D-B microphone with other audio equipment, such as mixers and amplifiers?

Yes, you can use the microphone with compatible audio equipment, such as mixers and amplifiers, for various audio applications.

Is the RE50N/D-B microphone compatible with shock mounts and microphone stands?

Yes, you can use shock mounts and microphone stands designed for handheld microphones with the RE50N/D-B for added stability and isolation.

Is the RE50N/D-B microphone suitable for live broadcasts and radio interviews?

Yes, it is commonly used for live broadcasts, radio interviews, and other professional audio applications.

What is the maximum sound pressure level (SPL) that the RE50N/D-B microphone can handle?

The microphone is designed to handle high SPLs, making it suitable for capturing loud sound sources without distortion.

**DOWNLOAD THE PDF LINK:** [Electro-Voice RE50N-D-B Dynamic Interview Microphone User Manual](#)