

# LE Series

## Wireless Microphone System



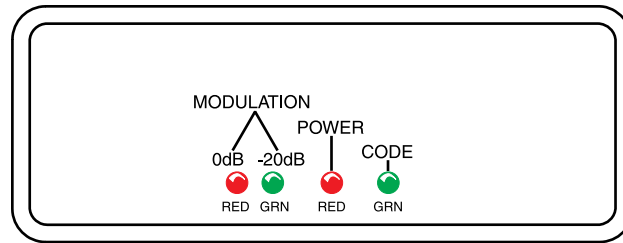
Fill in for your records:

Serial Number:

Purchase Date:

# R176 Receiver Connections and Indicators

## Front Panel

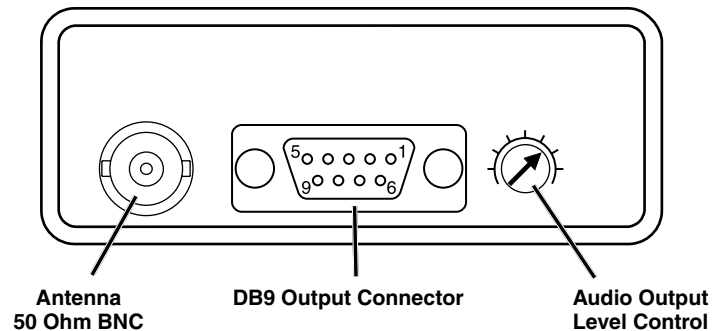


## Front Panel Indicators

- Modulation:** Indicates the modulation level of the output from the associated transmitter
- 0 dB:** Flickers when the transmitter gain approaches 0 dB
  - 20 dB:** Flickers when the transmitter gain approaches -20 dB. Glows continuously when the output from the transmitter is above -20 dB.
- Power:** Glows red when power is applied to the receiver
- Code:** Glows green to indicate the DCS™ has been received and accepted

# Rear Panel Connections and Controls

## Rear Panel



Antenna: 50 Ohm BNC

DB9: Connects receiver to audio recording device

Pin 1:	Ground	Pin 6:	Ground
Pin 2:	+12 VDC	Pin 7:	N/C
Pin 3:	Ground	Pin 8:	N/C
Pin 4:	Logic Out	Pin 9:	N/C
Pin 5:	Audio Out		

Audio Output Level Control: sets the audio level output from the receiver.

## Specifications

Logic Output:	+5 VDC when valid code is received, otherwise 0 VDC (10k Ohm load)
Max Current:	103 mA, All LEDs on
RF Sensitivity:	-109 dBm for 20 dB SINAD
Max Audio Out:	1 V RMS no load; 0.7 V RMS 1 k Ohm load

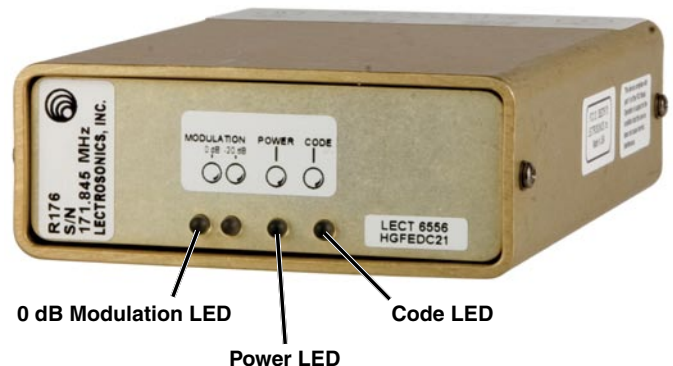
# Audio Level Adjustments



The M175DC transmitter features a wide range input limiter to guard against overload distortion and allow maximum signal to noise ratio. The following procedure will adjust the wireless system to take full advantage of the limiter action to prevent excessive output level from the receiver from overloading the recorder. This will also maximize the signal to noise ratio of the audio being recorded.

**Note:** This procedure assumes the receiver is connected to an antenna and output connector in the same configuration and under the same load conditions that will be experienced in real operating conditions.

1. Install battery in transmitter and attach microphone and set transmitter MIC LEVEL Adjustment to near maximum clockwise position.
2. Turn on transmitter and place microphone near a sound source, such as a portable radio.
3. Ensure the receiver's Power and Code LED indicators are glowing.
4. With the sound source (your portable radio) set between stations, adjust its volume so that the 0 dB Modulation LED on the receiver flickers slightly.
5. Leave the portable radio running and adjust the receiver's Audio Output Level Control so that the audio input to the recorder is just below the maximum that the recorder can handle.



# Service and Repair

If your system malfunctions, you should attempt to correct or isolate the trouble before concluding that the equipment needs repair. Make sure you have followed the setup procedure and operating instructions. Check the interconnecting cables.

We strongly recommend that you do not try to repair the equipment yourself and do not have the local repair shop attempt anything other than the simplest repair. If the repair is more complicated than a broken wire or loose connection, send the unit to the factory for repair and service. Don't attempt to adjust any controls inside the units. Once set at the factory, the various controls and trimmers do not drift with age or vibration and never require readjustment. There are no adjustments inside that will make a malfunctioning unit start working.

Lectrosonics' Service Department is equipped and staffed to quickly repair your equipment. In warranty repairs are made at no charge in accordance with the terms of the warranty. Out-of-warranty repairs are charged at a modest flat rate plus parts and shipping. Since it takes almost as much time and effort to determine what is wrong as it does to make the repair, there is a charge for an exact quotation. We will be happy to quote approximate charges by phone for out-of-warranty repairs.

For timely service, please follow the steps below:

- A. DO NOT return equipment to the factory for repair without first contacting us by email or by phone. We need to know the nature of the problem, the model number and the serial number of the equipment. We also need a phone number where you can be reached 8 A.M. to 4 P.M. (U.S. Mountain Standard Time).
- B. After receiving your request, we will issue you a return authorization number (R.A.). This number will help speed your repair through our receiving and repair departments. The return authorization number must be clearly shown on the outside of the shipping container.
- C. Pack the equipment carefully and ship to us, shipping costs prepaid. If necessary, we can provide you with the proper packing materials. UPS is usually the best way to ship the units. Heavy units should be "double-boxed" for safe transport.
- D. We also strongly recommend that you insure the equipment, since we cannot be responsible for loss of or damage to equipment that you ship. Of course, we insure the equipment when we ship it back to you.

## Returning Units for Repair

### Lectrosonics USA:

**Mailing address:**

Lectrosonics, Inc.  
PO Box 15900  
Rio Rancho, NM 87174  
USA

**Telephone:**

(505) 892-4501  
(800) 821-1121 Toll-free  
(505) 892-6243 Fax

**Web:**

[www.lectrosonics.com](http://www.lectrosonics.com)

**Shipping address:**

Lectrosonics, Inc.  
581 Laser Rd.  
Rio Rancho, NM 87124  
USA

**E-mail:**

[sales@lectrosonics.com](mailto:sales@lectrosonics.com)

### Lectrosonics Canada:

**Mailing Address:**

49 Spadina Avenue,  
Suite 303A  
Toronto, Ontario M5V 2J1

**Telephone:**

(416) 596-2202  
(877) 753-2876 Toll-free  
(877-7LECTRO)  
(416) 596-6648 Fax

**E-mail:**

Sales: [colinb@lectrosonics.com](mailto:colinb@lectrosonics.com)  
Service: [joeb@lectrosonics.com](mailto:joeb@lectrosonics.com)

### LIMITED ONE YEAR WARRANTY

The equipment is warranted for one year from date of purchase against defects in materials or workmanship provided it was purchased from an authorized dealer. This warranty does not cover equipment which has been abused or damaged by careless handling or shipping. This warranty does not apply to used or demonstrator equipment.

Should any defect develop, Lectrosonics, Inc. will, at our option, repair or replace any defective parts without charge for either parts or labor. If Lectrosonics, Inc. cannot correct the defect in your equipment, it will be replaced at no charge with a similar new item. Lectrosonics, Inc. will pay for the cost of returning your equipment to you.

This warranty applies only to items returned to Lectrosonics, Inc. or an authorized dealer, shipping costs prepaid, within one year from the date of purchase.

This Limited Warranty is governed by the laws of the State of New Mexico. It states the entire liability of Lectrosonics Inc. and the entire remedy of the purchaser for any breach of warranty as outlined above. NEITHER LECTROSONICS, INC. NOR ANYONE INVOLVED IN THE PRODUCTION OR DELIVERY OF THE EQUIPMENT SHALL BE LIABLE FOR ANY INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL, OR INCIDENTAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THIS EQUIPMENT EVEN IF LECTROSONICS, INC. HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL THE LIABILITY OF LECTROSONICS, INC. EXCEED THE PURCHASE PRICE OF ANY DEFECTIVE EQUIPMENT.

This warranty gives you specific legal rights. You may have additional legal rights which vary from state to state.

