

**BBE<sup>®</sup>**  
**Sound Inc.**



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*BBE DI-10*  
*USER MANUAL*



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## ***Congratulations on the purchase of your BBE DI-10 direct box!***

The BBE DI-10 is an active direct box used for converting line out and speaker out signals to balanced and unbalanced signals. The user also has the ability to select between two frequency responses (flat, or speaker compensated). Using the outputs from the DI-10, the user can direct feed to a mixer, recorder, or sound reinforcement system.

The features that make up the BBE DI-10 are:

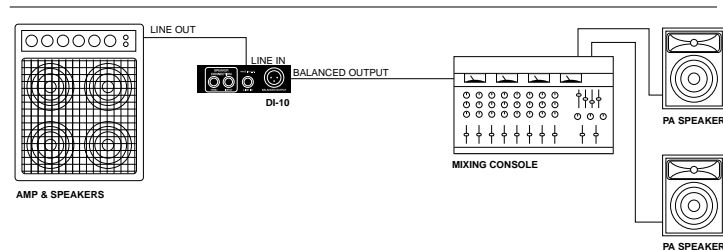
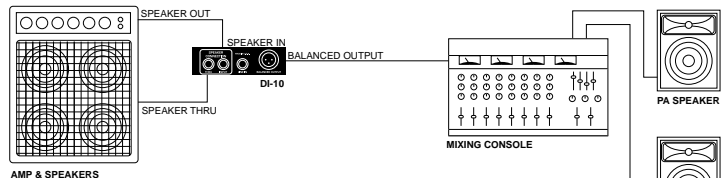
1. Speaker thru and Speaker input jacks.
2. 1/4" phone jack for line level signal input and output.
3. XLR jack for mic level, balanced output.
4. Filter switch to operate the speaker simulating filter.
5. Tri-mode powering for three different modes of powering:
  - a) internal 9V battery,
  - b) 9VDC external power source, and
  - c) 48V phantom power source through the XLR connector.
6. Tri-mode power scanning feature which scans the three power sources and uses only the highest source of power and shuts off the other power sources.

### **IMPORTANT**

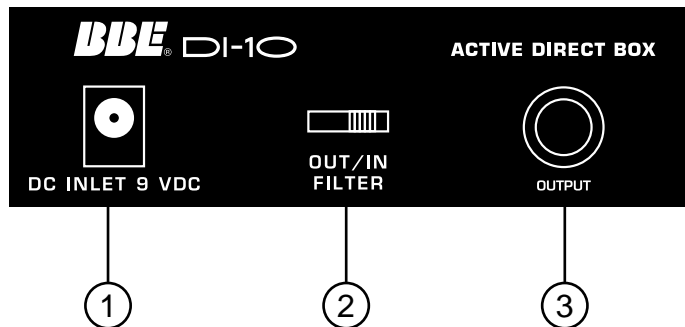
Before you begin, please check the contents within this box to insure that included are:

1. The BBE DI-10.
2. Four (4) Rubber Feet for table-mount application.
3. The BBE DI-10 user's manual.
4. 9VDC External Power Source.

Use the following illustrations as a starting point for proper placement of the BBE DI-10.



## FRONT PANEL CONTROLS

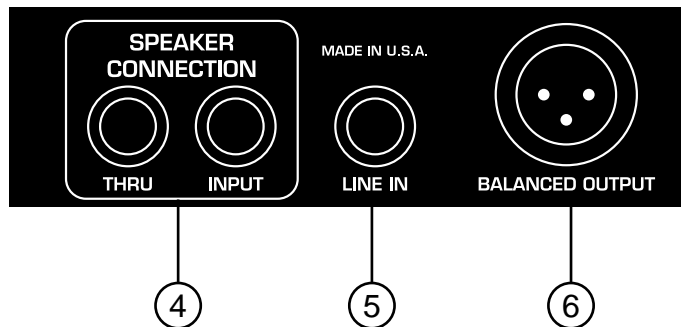


**1. D.C. INLET:** This jack is for connecting the 9 VDC power source. The 9 VDC power plug must be of the type where the positive voltage is on the outer ring.

**2. FILTER SWITCH:** This switch is used to operate the speaker simulating filter. When the filter is off, system frequency response is flat. When the filter is on, a 4th order filter network is activated and the system frequency response is 6dB down at 4kHz.

**3. LINE OUT:** This 1/4" phone jack provides an unbalanced line level output.

## REAR PANEL CONNECTIONS



**4. SPEAKER THRU AND SPEAKER INPUT:** These are 1/4" mono phone jacks. When using an amplifier, the output from the power amp section connects to the 'speaker input' jack while the amplifier speakers connect to the 'speaker thru' jack.

**CAUTION:** Never operate an amplifier featuring a tube power stage without a connection to a speaker or sufficient power resistor.

**5. LINE INPUT:** This is a 1/4" mono phone jack for line level signal insertion. **NOTE:** Connecting a 1/4" male plug to either the speaker in jack or the line in jack will activate the internal 9 volt battery.

**6. BALANCED OUT:** This XLR jack provides a mic level balanced output. Pin 2 being the 'hot' pin. The DI-10 can also be phantom powered through this jack.

**NOTE:** This unit may be powered by three (3) different modes.

1. Internal 9 volt battery.
2. 9 VDC external power source.
3. 48v phantom power source.

## SPECIFICATIONS

### FREQUENCY RESPONSE

FILTER OFF .....5Hz to 30kHz

FILTER ON .....40Hz to 4kHz

SIGNAL TO NOISE RATIO .....108dB (Filter Out)

(USING A 9V BATTERY)

TOTAL HARMONIC DISTORTION ....0.02% (20hz - 20kHz)

### INPUT CHARACTERISTICS

INPUT IMPEDANCE .....50k OHMS (Line In)

.....470k OHMS (Speaker In)

LINE INPUT LEVEL .....+10dBu (Battery)

.....+24dBu (Phantom Power Supply)

SPEAKER INPUT LEVEL .....+40dBu (Battery)

.....+54dBu (Phantom Power Supply)

### OUTPUT CHARACTERISTICS

OUTPUT IMPEDANCE .....600 OHMS (XLR)

.....1k OHM (Line Out)

### POWER REQUIREMENTS

PHANTOM .....+48v (Via XLR Jack)

D.C. INLET .....+9vdc Minimum of 100ma

BATTERY .....+9vdc (500hrs)

## WARRANTY

Warranty registration of the unit to BBE Sound Inc. is not necessary. However, it is strongly recommended that a copy of the bill of sale is retained for future reference.

**IT IS THE SOLE RESPONSIBILITY OF THE END USER TO PROVIDE THE BILL OF SALE OR OTHER MEANS OF PROOF OF PURCHASE TO VALIDATE THE WARRANTY IF WARRANTY SERVICE IS REQUIRED.**

The BBE DI-10 Active Direct Box is warranted against defects in material and workmanship for a period of five (5) years from date of purchase from BBE Sound, Inc. or from an authorized dealer.

During this period, we will repair units free of charge providing that they are shipped **prepaid** to BBE Sound, Inc., 5381 Production Drive, Huntington Beach, CA 92649. BBE Sound, Inc. will pay return UPS shipping charges within the USA. All charges related to non-U.S. shipping, including customs clearance, will be billed. The warranty will be honored for the longer of either 90 days from the date of any service or the remainder of the original 5 Year factory warranty.

The warranty will be considered null and void by BBE Sound, Inc. if any of the following is found:

1. The equipment has been physically damaged.
2. The equipment shows signs of abuse.
3. The equipment has been electrically damaged by improper connection or attempted repair by the customer or a third party.
4. The equipment has been modified without authorization.
5. The bill of sale indicates that the purchase date of the equipment is not within the warranty period.

All non-warranty repairs are warranted for a period of 90 days from the date of service.

BBE Sound, Inc. is NOT LIABLE FOR CONSEQUENTIAL DAMAGES. Should the unit fail to operate for any reason, our sole obligation is to repair the unit as described above.



# **BBE**<sup>®</sup> **Sound Inc.**

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Covered by U.S. Patent 4,482,866 and other U.S. and foreign patents pending.

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