

## OWNER'S MANUAL

**MEDIA-1**

**MEDIA-2**

Multimedia DI





## **Media-1 & Media-2 USER GUIDE**

Introduction.....	1
Overview.....	2
Features .....	3-4
Making Connections .....	5
Applications .....	6-7
Controls .....	8-9
Specifications .....	10
Block Diagram .....	11-12
Warranty .....	Back Cover

## INTRODUCTION

Thank you for purchasing a Jensen Media series direct box. We are confident that you will find the quality and performance meet your expectations in every way. At Jensen, we pride ourselves in producing the very finest products and stand behind them with a 3-year warranty.

Although your Media series direct box has been designed to be easy to use, we do ask that you take a minute to read through this short manual. This will ensure that you get to know all of the features and how to best take advantage of them. If after reading you find yourself posing a question that is not covered, we invite you to visit the FAQ page on the Jensen web site. This is where we post questions and answers from users along with updates. If you still do not find what you are looking for, feel free to send us an email at [info@jensen-transformers.com](mailto:info@jensen-transformers.com) and we will do our very best to reply in short order.

Now get ready to enjoy what is likely the best direct box ever!



## OVERVIEW

This manual covers both the Jensen Media-1 and Media-2. The primary difference between the two is that the Media-1 sums the left and right inputs to mono while the Media-2 retains full stereo from input to output. As the rest of the features are almost identical, we have written the manual in such a way that it covers both units.

The Media series direct boxes are designed to capture the unbalanced line level signal from an active instrument, laptop computer, tablet or cell phone and convert it to a balanced signal while lowering the impedance for long cable runs. Unbalanced signals are prone to noise and signal degradation, thus are generally limited to cable runs of 8 meters (25'). Balanced signals on the other hand can easily drive signals to 100 meters (300') or more.

The 'motor' inside that does the work is a Jensen JT-DB-EPC direct box transformer. This exceptional device does not require power to work. You simply plug it in and it does the balancing and impedance conversion for you. Once you insert a Jensen transformer into the audio signal, it will help eliminate nasty hum and buzz caused by ground loops and interference. Best of all, it does so without degrading the audio in any way. This is why Jensen has gained such high praise from the industry and why so many top professionals insist on Jensen as part of their live and studio setups.



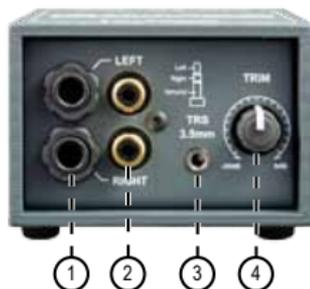
MEDIA-1  
FEATURES

1. **1/4" INPUTS:** Left and right inputs ideally suited for stereo keyboards or drum machines, wired in parallel with the RCA and mini 3.5 TRS connector.
2. **RCA INPUTS:** Left and right inputs provide an easy connection from a CD player or other -10dBV consumer audio device.
3. **3.5mm TRS INPUT:** Standard mini TRS stereo input for connecting a laptop, tablet or iPhone® to the Media-1.
4. **TRIM:** Used to set the input level going into the Media-1. Eliminates the need for a typical PAD switch.

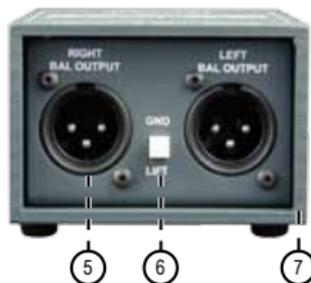


5. **POL:** Inverts the signal polarity by flipping pin-2 and pin-3 on the XLR output.
6. **GROUND LIFT:** Lifts pin-1 on the XLR output to help eliminate hum and buzz caused by ground loops.
7. **XLR OUT:** Balanced low-Z mic-level output. Sums left and right to mono. Wired to AES standard pin-1 ground, pin-2 hot (+) and pin-3 cold (-).

## MEDIA-2 FEATURES



- 1. 1/4" INPUTS:** Left and right inputs ideally suited for stereo keyboards or drum machines, wired in parallel with the RCA and mini 3.5 TRS connector.
- 2. RCA INPUTS:** Left and right inputs provide an easy connection from a CD player or other -10dBV consumer audio device.
- 3. 3.5mm TRS INPUT:** Standard mini TRS stereo input for connecting a laptop, tablet or iPhone® to the Media-2.
- 4. TRIM:** Used to set the input level going into the Media-2. Eliminates the need for a typical PAD switch.

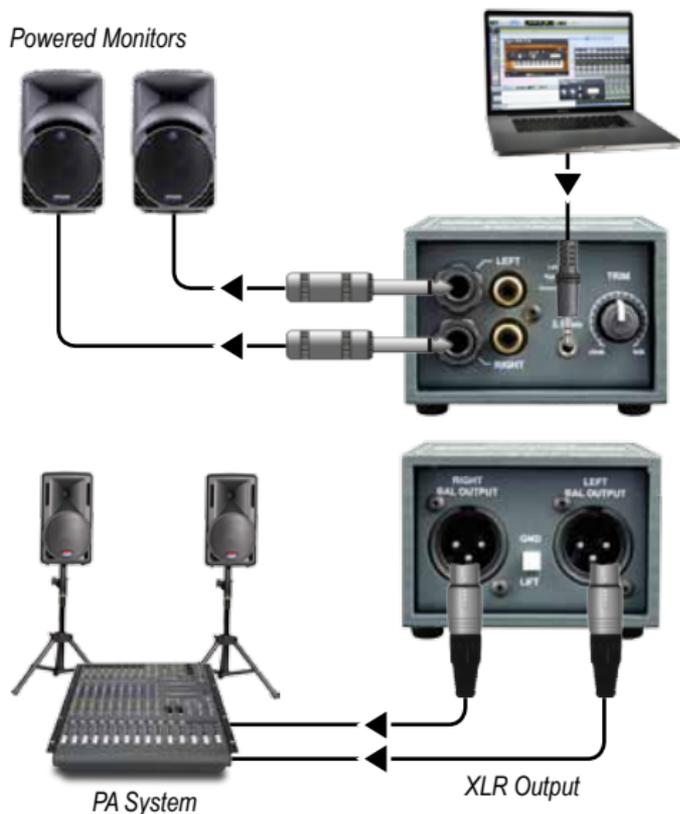


- 5. XLR OUT:** Left and right balanced, low-Z mic-level output. Wired to AES standard pin-1 ground, pin-2 hot (+) and pin-3 cold (-).
- 6. GROUND LIFT:** Lifts pin-1 at both XLR outputs to help eliminate hum and buzz caused by ground loops.
- 7. DURABLE CASE:** Aluminum frame construction with steel inner tray prevents circuit board from being torqued which could lead to part failure. Durable powder-coat finish keeps your Media-2 looking great for years.

## CONNECTIONS

Before making any connections, ensure that your audio system is either turned off or all levels turned down. This will avoid plug-in and turn-on transients that could otherwise harm more sensitive components such as tweeters. As your Media DI is passive, it does not require any power to make it work. We suggest you turn off the phantom power on your console or mic preamp. Although it will not harm the Media DI, turning it off eliminates noise and potential component damage from accidental disconnection.

Both Media DIs are equipped with 1/4" input connections for instruments. These are supplemented with RCAs for consumer audio devices along with a 3.5mm (mini TRS) stereo input jack for laptops and tablets. These connectors are wired in parallel and can be used to pass audio through to other devices.



## APPLICATION

### Setup with consumer devices

In many commercial installations, it is common to connect the output from a CD player or video machine to the PA system. The most common output from these consumer devices is a set of RCA connectors. These generate a -10dBV signal level which is easily handled by the Media direct box's Jensen transformers. Connect the XLR outputs to your mic input on your mixer. Merely set the level control on the Media DI to about 12 o'clock, listen and adjust to suit.

The Media-1 will automatically sum the left and right inputs to mono. This can be very beneficial when interfacing with a PA system where channel availability may be limited.

### Set-up with a laptop

To address the ever increasing use of laptop computers and tablets in professional audio, the Jensen Media direct boxes are equipped with standard 3.5mm TRS input connectors. This makes it easy to connect using a simple TRS to TRS cable from any of the available audio outputs – which is most likely a headphone out.

*Using with a CD player*



*Using with an iPod®*



*Using with a laptop*



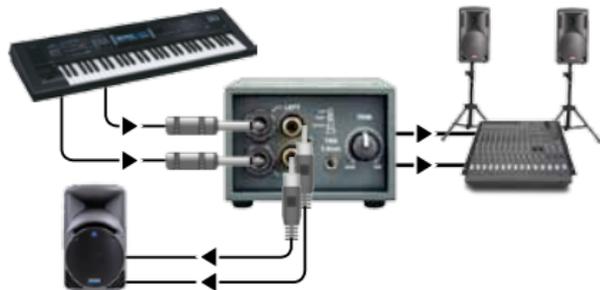
### Setup with a keyboard

Connect to the Media-2 using standard ¼" coaxial cables and XLRs for the PA system. If you are adding personal monitors, use a set of RCA to ¼" cables to feed the powered monitors. This essentially uses the RCA connectors as a typical THRU. Note that the THRU outputs will not be affected by the Media-2 level control. In other words, your keyboard volume control will determine the sound going to your monitors. Start by setting this up so that it is comfortable for you and then set the level control for the PA.

### Setup with a DJ system

DJ mixers can be notoriously problematic due to the DJ being too loud. This can cause distortion or even harm the PA system. Connecting the DJ mixer to the Media-2 enables you to set a maximum level and is quick to adjust if needed. Connect a device to the Media-2 using the RCA or ¼" inputs.

*Using with a keyboard*



*Using with a DJ setup*



## CONTROLS

### Summing function

The Media-1 is equipped with an internal resistive summing mixer that takes the left and right inputs and mixes them together at the XLR. This helps conserve audio channels when they are limited. It also reduces cable count and – in many cases – simplifies the setup.

### The Trim Control

Both the Media-1 and Media-2 DIs are equipped with a trim control that replaces the usual PAD. This enables the user to quickly adjust the level from a device such as a CD player that may not have a level control available. This is also a wonderful benefit when receiving the input from a laptop or other device as reaching for a real analog control knob is often much easier than bringing up a window to adjust something. The trim passively reduces the input sensitivity and can also be used to reduce distortion. Set at 12 o'clock to start and adjust as needed.



## The 180° Polarity Reverse

The Media-1 is equipped with a polarity reverse that toggles pin-2 and pin-3 at the XLR output. This can be used to correct the polarity when plugging into older (vintage) non-AES standard equipment. It is also used when recording to reverse the phase when combining two sources such as a microphone with a direct feed as a means to better align the fundamentals or widen the effect of the stereo image.

## Ground Lift

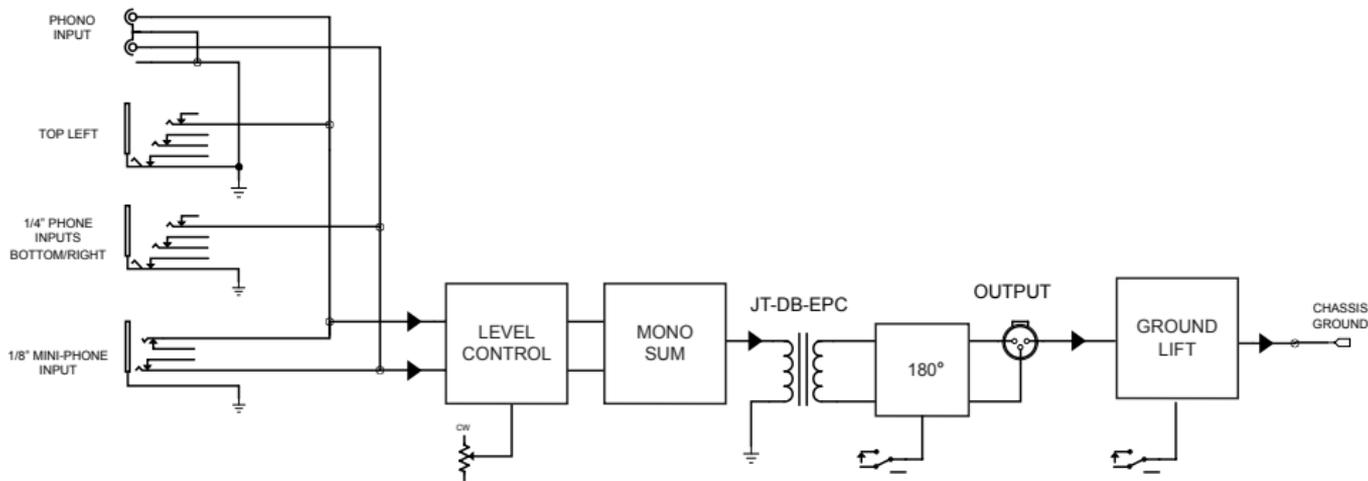
Jensen transformers are legendary in their ability to eliminate hum and buzz in audio systems and the Media series DI boxes are no exception. Another common problem is known as a ground loop where you can encounter 60 cycle hum. This often occurs when the audio ground and electrical ground conflict. Disconnecting the electrical ground at the AC plug is both unsafe and illegal. A better solution is lifting or disconnecting the audio ground path between the source instrument and destination audio system. Both Media series direct boxes are equipped with a ground lift switch that disconnects the pin-1 audio ground at the XLR output. The preferred mode of operation is with the GND lifted.



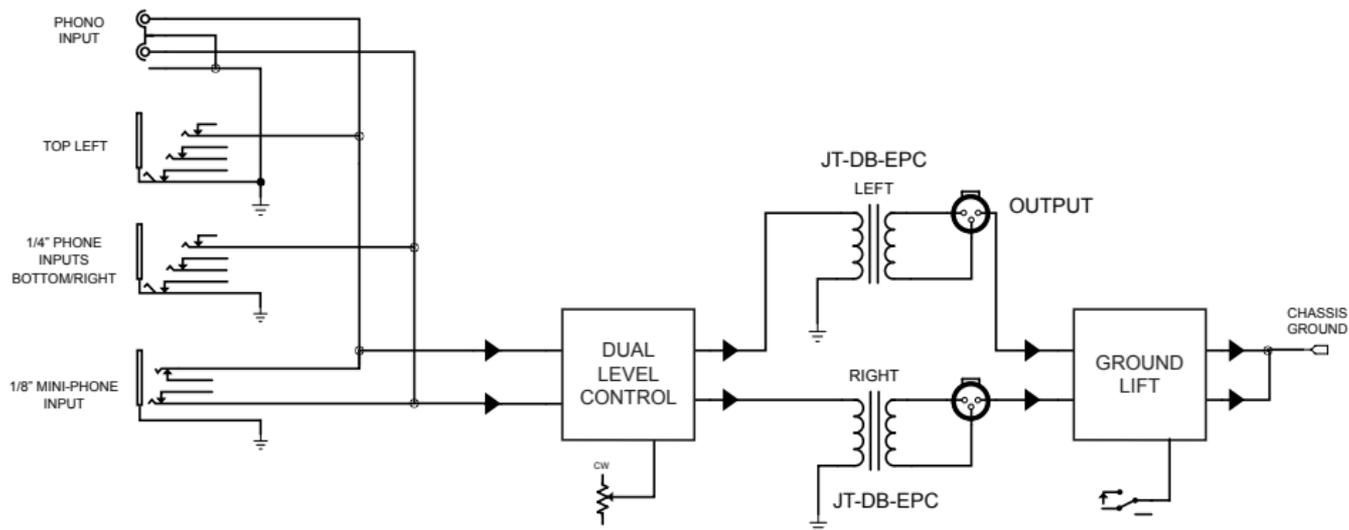
## **SPECIFICATIONS**

Audio circuit type: .....	Passive transformer isolated
Frequency response: .....	20Hz to 20kHz
Total Harmonic Distortion: (THD+N) .....	0.04% @ 20Hz with -10dBV input level
Input impedance: .....	22k $\Omega$
Maximum input: .....	+21.5dBu @ 20Hz
Gain: .....	-22.5dB (10k load; level control at maximum)
Output impedance: .....	150 $\Omega$ (level control at maximum; higher at lower settings)
Phase Deviation: .....	-1.2/-0° (20Hz to 20kHz with 3k load)
Input pad: .....	Variable trim control with 20dB range
XLR configuration: .....	Pin-1 ground; pin-2 hot (+); pin-3 cold (-)
Other connectors: .....	1/4" TRS, RCA and Mini TRS In
Power: .....	None, passive
Construction: .....	Steel frame with an aluminum shell
Size: (LxWxD) .....	5" x 3.3" x 1.8" (127mm x 84.1mm x 45.5mm)
Weight: .....	1.55 lbs (703 grams)
Warranty: .....	Jensen 3-year, transferable

## MEDIA-1 Block Diagram



## MEDIA-2 Block Diagram



### 3 YEAR TRANSFERABLE WARRANTY

For a period of 3 YEARS after purchase, Jensen Transformers, Inc. will, free of charge, repair or replace any part of an ISO-MAX® product that fails due to defective materials or workmanship. This limited warranty is subject to the following limitations:

1. Defects that are, in the sole judgement of Jensen, the result of accident, misuse, abuse, neglect, mishandling, misapplication, faulty installation, unauthorized repair, modification, or acts of God will not be covered by this warranty.
2. There are no express warranties except as listed above.
3. In order to claim a warranty repair, you must first request a repair authorization number from Jensen. The product must then be returned along with a copy of the original sales invoice to Jensen - freight pre-paid with a letter detailing the problem. Upon inspection, the product will either be repaired or replaced and then returned to you. Should a product be returned and no problem found, you will be responsible for all freight charges. Should a repair be required due to out-of-warranty status, you will be charged for the costs associated with the repair.
4. JENSEN TRANSFORMERS, INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR MISUSE OF THIS PRODUCT.

Note: If a problem develops with this product during the warranty period, call or write us before attempting any repair. We can help you identify specific problems, and possibly solve the problem before the unit is returned to us for repair or replacement. In any case, DO NOT RETURN THE UNIT WITHOUT RECEIVING A RETURN AUTHORIZATION NUMBER and instructions from us. Jensen cannot be held responsible for damage due to shipping, improper packaging or loss due to carrier negligence.

LIMITATIONS OF LIABILITY: JENSEN PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS, OR IN ANY APPLICATION WHERE THEIR FAILURE COULD CAUSE INJURY OR DEATH.

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Jensen Transformers, Inc.  
9304 Deering Ave. Chatsworth, CA 91311  
Tel: 818-374-5857 • Email: [info@jensen-transformers.com](mailto:info@jensen-transformers.com)

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