

KRAMER ELECTRONICS LTD.

USER MANUAL

MODEL:

482xI

Bidirectional Audio Transcoder

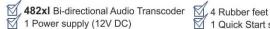
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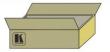


482xl Quick Start Guide

This guide helps you install and use your product for the first time. For more detailed information, go to http://www.kramerelectronics.com/support/product_downloads.asp to download the latest manual or scan the QR code on the left.

Step 1: Check what's in the box





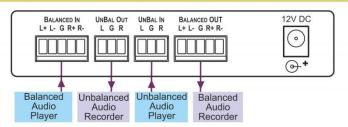
Save the original box and packaging materials in case you need to return your 482xl for service.

Step 2: Install the 482xl

Attach the rubber feet and place on a table or mount the 482xl in a rack (using an optional RK-3T rack mount).

Step 3: Connect the inputs and outputs

Always switch off the power on each device before connecting it to your 482xl.



Always use Kramer high-performance cables for connecting AV equipment to the 482xl.

Step 4: Connect the power

Connect the 12V DC power adapter to the 482xl and plug the adapter into the mains electricity.



Step 5: Operate the 482xl

If necessary, adjust the level trimmers with a small screwdriver.



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1 Introduction

Welcome to Kramer Electronics! Since 1981, Kramer Electronics has been providing a world of unique, creative, and affordable solutions to the vast range of problems that confront video, audio, presentation, and broadcasting professionals on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better!

Our 1,000-plus different models now appear in 11 groups that are clearly defined by function: GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Routers; GROUP 3: Control Systems; GROUP 4: Format/Standards Converters; GROUP 5: Range Extenders and Repeaters; GROUP 6: Specialty AV Products; GROUP 7: Scan Converters and Scalers; GROUP 8: Cables and Connectors; GROUP 9: Room Connectivity; GROUP 10: Accessories and Rack Adapters and GROUP 11: Sierra Products.

Congratulations on purchasing your Kramer **482xl** *Bidirectional Audio Transcoder*, which is ideal for the following typical applications:

- · Video and audio production facilities
- Audio recording studios
- Live sound applications

482xl - Introduction

2 Getting Started

We recommend that you:

- Unpack the equipment carefully and save the original box and packaging materials for possible future shipment
- Review the contents of this user manual



Go to http://www.kramerelectronics.com to check for up-to-date user manuals, application programs, and to check if firmware upgrades are available (where appropriate).

2.1 Achieving the Best Performance

To achieve the best performance:

- Use only good quality connection cables (we recommend Kramer highperformance, high-resolution cables) to avoid interference, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low quality cables)
- Do not secure the cables in tight bundles or roll the slack into tight coils
- Avoid interference from neighboring electrical appliances that may adversely influence signal quality
- Position your Kramer 482xl away from moisture, excessive sunlight and dust



This equipment is to be used only inside a building. It may only be connected to other equipment that is installed inside a building.

2.2 Safety Instructions



Caution: There are no operator serviceable parts inside the unit

Warning: Use only the Kramer Electronics input power wall

adapter that is provided with the unit

Warning: Disconnect the power and unplug the unit from the wall

before installing

2.3 Recycling Kramer Products

The Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC aims to reduce the amount of WEEE sent for disposal to landfill or incineration by requiring it to be collected and recycled. To comply with the WEEE Directive, Kramer Electronics has made arrangements with the European Advanced Recycling Network (EARN) and will cover any costs of treatment, recycling and recovery of waste Kramer Electronics branded equipment on arrival at the EARN facility. For details of Kramer's recycling arrangements in your particular country go to our recycling pages at http://www.kramerelectronics.com/support/recycling/.

3 Overview

The **482xI** is a high–performance audio transcoder for balanced and unbalanced stereo audio signals. The unit has two separate channels (both function independently; use just one channel or both channels simultaneously) that convert:

- An unbalanced audio input signal to a balanced audio output signal on one channel
 - Balanced audio is more immune to noise and interference.
- A balanced audio input signal to an unbalanced audio output signal on the other channel

In addition, the 482xl Bi-directional Audio Transcoder features:

- Gain or attenuation adjustments while transcoding, to compensate for the 14dB change between IHF audio levels and the state-of-the-art balanced DAT input levels
- Very low-noise and low-distortion components

3.1 Defining the 482xl Bidirectional Audio Transcoder

This section defines the 482xl.

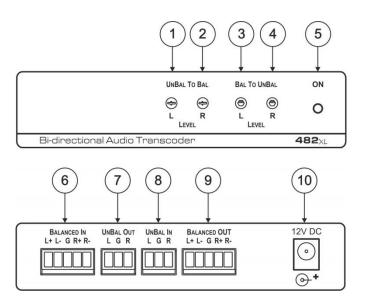


Figure 1: 482xl Bidirectional Audio Transcoder

#	Feature		Function
1	UNBAL TO BAL	L LEVEL Trimmer	Adjust the left unbalanced audio output signal level
			Insert a screwdriver into the small hole and carefully rotate it, trimming the appropriate level
2		R LEVEL Trimmer	Adjust the right unbalanced audio output signal level
3	BAL TO	L LEVEL Trimmer	Adjust the left balanced audio output signal level
4	UNBAL	R LEVEL Trimmer	Adjust the right balanced audio output signal level
5	ONLED		Illuminates when receiving power
6	BALANCED IN 5-pin Terminal Block Connector		Connect to the balanced audio source
7	UNBAL OUT 3-pin Terminal Block Connector		Connect to the unbalanced audio acceptor
8	UNBAL IN 3-pin Terminal Block Connector		Connect to the unbalanced audio source
9	BALANCED OUT 5-pin Terminal Block Connector		Connect to the balanced audio acceptor
10	12V DC		+12V DC connector for powering the unit

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4 Connecting the 482xl



Always switch off the power to each device before connecting it to your **482xI**. After connecting your **482xI**, connect its power and then switch on the power to each device.

To convert the audio input signals at the UNBAL IN (to the balanced audio output) and the BALANCED IN (to the unbalanced audio output) connectors, as the example illustrated in Figure 2 shows, do the following:

- Connect the unbalanced audio source (for example, an unbalanced audio player) to the UNBAL IN 3-pin terminal block connector.
- Connect the BALANCED OUT 5-pin terminal block connector to the balanced audio acceptor (for example, a balanced audio recorder).
- Connect the balanced audio source (for example, a balanced audio player) to the BALANCED IN 5-pin terminal block connector.
- 4. Connect the UNBAL OUT 3-pin terminal block connector to the unbalanced audio acceptor (for example an unbalanced audio recorder).
- Connect the 12V DC power adapter to the power socket and connect the adapter to the mains electricity (not shown in <u>Figure 2</u>).

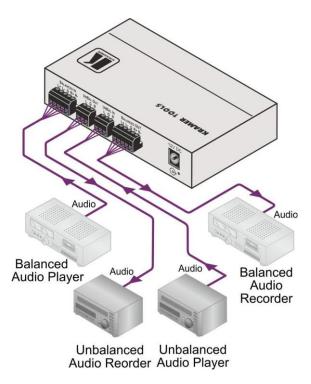


Figure 2: Connecting the 482xl Bidirectional Audio Transcoder

4.1 Adjusting the Audio Output Level

The **482xl** *Bi-directional Audio Transcoder* comes factory pre-set for 1:1 transparency.

Readjusting the **482xl** *Bi-directional Audio Transcoder* upsets this transparency. However, if necessary, you can fine-tune both channels' audio output levels.

To adjust the appropriate audio output levels:

- Insert a screwdriver into one of the four small holes on the lower side of the 482xl Bi-directional Audio Transcoder, enabling access to the appropriate trimmer.
- Carefully rotate the screwdriver, adjusting the appropriate audio output level, as required.

5 Technical Specifications

INPUTS:	unbalanced audio stereo on a 3-pin terminal block connector; balanced audio stereo on a 5-pin terminal block.			
OUTPUTS:	balanced audio stereo on a 5-pin terminal block connector; unbalanced audio stereo on a 3-pin terminal block connector.			
MAX. OUTPUT LEVEL:	Balanced: 21dBu; unbalanced: 21dBu @max gain.			
BANDWIDTH (-3dB):	>100 kHz			
CONTROLS:	-57dB to + 6dB (balanced to unbalanced level); -16dB to + 19dB (unbalanced to balanced level)			
COUPLING:	Balanced to unbalanced: in=AC, out=DC; Unbalanced to balanced: in=AC, out=DC			
THD+NOISE:	0.049%			
2ND HARMONIC:	0.005%			
S/N RATIO:	95db/87dB @ balanced to unbalanced/unbalanced to balanced, unweighted			
POWER CONSUMPTION:	12V DC, 190mA (fully loaded)			
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F)			
STORAGE TEMPERATURE:	-40° to +70°C (-40° to 158°F)			
HUMIDITY:	10% to 90%, RHL non-condensing			
DIMENSIONS:	12cm x 7.5cm x 2.5cm (4.7" x 2.95" x 0.98"), W, D, H			
WEIGHT:	0.3kg (0.66lbs) approx.			
ACCESSORIES:	Power supply, mounting bracket			
OPTIONS:	RK-3T 19" rack adapter			
Specifications are subject to change without notice at http://www.kramerelectronics.com				

LIMITED WARRANTY

The warranty obligations of Kramer Electronics for this product are limited to the terms set forth below:

What is Covered

This limited warranty covers defects in materials and workmanship in this product.

What is Not Covered

This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. This limited warranty does not cover any damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Kramer Electronics to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product. This limited warranty does not cover cartons, equipment enclosures, cables or accessories used in conjunction with this product.

Without limiting any other exclusion herein, Kramer Electronics does not warrant that the product covered hereby, including, without limitation, the technology and/or integrated circuit(s) included in the product, will not become obsolete or that such items are or will remain compatible with any other product or technology with which the product may be used.

How Long Does this Coverage Last

Seven years as of this printing; please check our Web site for the most current and accurate warranty information.

Who is Covered

Only the original purchaser of this product is covered under this limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product.

What Kramer Electronics will do

Kramer Electronics will, at its sole option, provide one of the following three remedies to whatever extent it shall deem necessary to satisfy a proper claim under this limited warranty:

- 1. Elect to repair or facilitate the repair of any defective parts within a reasonable period of time, free of any charge for the necessary parts and labor to complete the repair and restore this product to its proper operating condition. Kramer Electronics will also pay the shipping costs necessary to return this product once the repair is complete.
- 2. Replace this product with a direct replacement or with a similar product deemed by Kramer Electronics to perform substantially the same function as the original product.
- 3. Issue a refund of the original purchase price less depreciation to be determined based on the age of the product at the time remedy is sought under this limited warranty.

What Kramer Electronics will not do Under This Limited Warranty

If this product is returned to Kramer Electronics or the authorized dealer from which it was purchased or any other party authorized to repair Kramer Electronics products, this product must be insured during shipment, with the insurance and shipping charges prepaid by you. If this product is returned uninsured, you assume all risks of loss or damage during shipment. Kramer Electronics will not be responsible for any costs related to the removal or re-installation of this product from or into any installation. Kramer Electronics will not be responsible for any costs related to any setting up this product, any adjustment of user controls or any programming required for a specific installation of this product.

How to Obtain a Remedy under this Limited Warranty

To obtain a remedy under this limited warranty, you must contact either the authorized Kramer Electronics reseller from whom you purchased this product or the Kramer Electronics office nearest you. For a list of authorized Kramer Electronics resellers and/or Kramer Electronics authorized service providers, please visit our web site at www.kramerelectronics.com or contact the Kramer Electronics office nearest you.

In order to pursue any remedy under this limited warranty, you must possess an original, dated receipt as proof of purchase from an authorized Kramer Electronics reseller. If this product is returned under this limited warranty, a return authorization number, obtained from Kramer Electronics, will be required. You may also be directed to an authorized reseller or a person authorized by Kramer Electronics to repair the product.

If it is decided that this product should be returned directly to Kramer Electronics, this product should be properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization number will be refused.

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For the latest information on our products and a list of Kramer distributors, visit our Web site where updates to this user manual may be found.

We welcome your questions, comments, and feedback.

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SAFETY WARNING
Disconnect the unit from the power

supply before opening and servicing





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