

KRAMER ELECTRONICS LTD.

USER MANUAL

MODEL:

102xI

2-Channel Audio Mixer

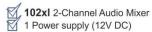
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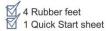


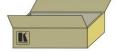
102xl Quick Start Guide

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







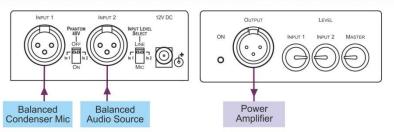
Save the original box and packaging materials in case you need to return your 102xl for service.

Step 2: Install the 102xl

Attach the rubber feet and place on a table or mount the 102xl in a rack (using an optional RK-1 rack mount).

Step 3: Connect the inputs and outputs

Always switch off the power on each device before connecting it to your 102xl.



Always use Kramer high-performance cables for connecting AV equipment to the 102xl.

Step 4: Connect the power

Connect the 12V DC power adapter to the 102xl and plug the adapter into the mains electricity.



Step 5: Operate the 102xl

Set the phantom 48V and input level DIP-switches for each input. Use 48V phantom only for condenser microphones.

Set the input or master volume knobs to mix the signals as needed.

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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 **102xl** *2-Channel* Audio Mixer, which is ideal for the following typical applications:

- Live stage and studio audio mixing
- Presentation systems and press conferences

102xl - 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/support/product_downloads.asp 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 102xl 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 **102xl** *2 Channel Audio Mixer* is a high quality, low noise, 2-input mono balanced audio standalone mixer that provides for 2 different levels on each input - Mic level or line level as well as the selection of either a dynamic or phantom microphone.

The 102xl includes:

- Two XLR input connectors and one XLR output connector
- A MASTER knob for adjusting the level of both input signals mixed into the output, and two LEVEL knobs, for adjusting the levels of each input separately
- A 12 VDC power socket, which is ideal for field use. The unit generates broadcast voltage level ±12V and +48V internally from the single +12 VDC input
- Two input level select switches for selecting the balanced level (MIC or LINE)
- Two switches for applying 48V phantom power

3.1 Defining the 102xl 2-Channel Audio Mixer

This section defines the 102xl.

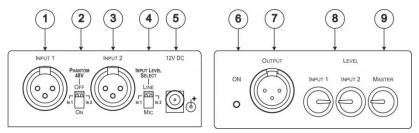


Figure 1: 102xl 2-Channel Audio Mixer

#	Feature		Function	
1	INPUT 1	XLR Female Connector	Connects to the audio source 1	
2	, ,		Move to ON to select a condenser microphone; move to OFF to select dynamic microphone (1 and 2)	
3	INPUT 2	XLR Female Connector	Connects to the audio source 2	
4	INPUT LEVEL SELECT (LINE/MIC) Switches		Move to MIC to select microphone level input; move to LINE to select line level input (1 and 2)	
5	12V DC		+12V DC connector for powering the unit	
6	ONLED		Lights when the unit is powered	
7	OUTPUT XLR Male Connector		Connects to the audio acceptor	
8		INPUT Knobs	Adjust the input levels of each channel (1 and 2)	
9	LEVEL	MASTER Knob	Adjusts the combined signals from both inputs mixed to the output	

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4 Connecting the 102xl



Always switch off the power to each device before connecting it to your **102xI**. After connecting your **102xI**, connect its power and then switch on the power to each device.

To connect up to two balanced audio sources to the **102xl** 2 Channel Audio Mixer, as the example in Figure 2 illustrates, do the following:

 Connect a balanced audio source (for example, a condenser microphone) to the INPUT 1 XLR female connector.

Set the INPUT LEVEL SELECT IN 1 switch to MIC.

Set the PHANTOM 48V IN 1 switch to ON.

When using a dynamic microphone, set the PHANTOM 48V switch to OFF.

- Connect a balanced audio source to the INPUT 2 XLR female connector.
 Set the INPUT LEVEL SELECT IN 2 switch to LINE.
 Set the PHANTOM 48V IN 2 switch to OFF.
- 3. Connect the XLR male OUTPUT connector to a balanced audio acceptor (for example, a power amplifier with speakers).
- 4. Connect the 12V DC power adapter to the power socket and connect the adapter to the mains electricity.
- Rotate the INPUT 1, INPUT 2 and MASTER LEVEL knobs to adjust the audio level of input 1, input 2 and of both inputs mixed together (the MASTER LEVEL knob) to the output, respectively.



For every unused input, be sure to rotate the LEVEL potentiometer fully counter-clockwise (to the minimum level).

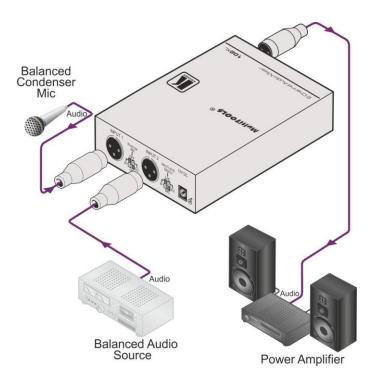


Figure 2: Connecting the 102xl 2-Channel Audio Mixer

5 Technical Specifications

INPUTS:	2 line/mic balanced mono on XLR (F) connectors		
OUTPUT:	1 line balanced mono on an XLR (M) connector		
MAX. OUTPUT LEVEL:	18Vpp @absolute maximum gain		
BANDWIDTH (-3dB):	> 100kHz		
S/N RATIO:	Line: 91.5dB Mic: 62.5dB, 1kHz		
CONTROLS:	Line:<-48dB to +11.4dB, Mic: <-1.9dB to +62.5dB, minimum to absolute gain Phantom +48V selection for condenser microphone by DIP-switches per input Line/microphone input mode selection by DIP-switches per input		
COUPLING:	Input: AC, Output: DC		
AUDIO THD + NOISE:	Line: 0.013%, Mic: 0.079%		
AUDIO 2nd HARMONIC:	Line: 0.002%, Mic: 0.01%		
POWER CONSUMPTION:	12 VDC, 140mA		
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:	10.68cm x 16.2cm x 4.2cm (4.2" x 6.38" x 1.65"), W, D, H		
WEIGHT:	0.65kg (1.4lbs) approx.		
ACCESSORIES:	Power supply		
OPTIONS:	RK-1 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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supply before opening and servicing

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