



KRAMER ELECTRONICS LTD.

USER MANUAL

MODEL:

Dolev 5
2-Way, Bi-Amplified Studio-
Grade Speaker

P/N: 2900-300416 Rev 1

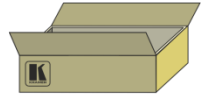


Dolev 5 Quick Start Guide

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

- ✓ **Dolev 5** Two-Way Bi-Amplified Studio-Grade Speaker
- ✓ 1 AC power cord
- ✓ 1 Quick start guide



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

Step 2: Choose the best location

For optimum installation:

- Position speaker/s at least 50cm away from the wall
- Install the speaker so that the center point between the tweeter and the woofer are at ear level. If required, use a speaker stand
- If required, use sound absorbing materials around the room
- Place the speaker facing towards the listener to minimize the distance and reflections from the walls and get the best stereo image

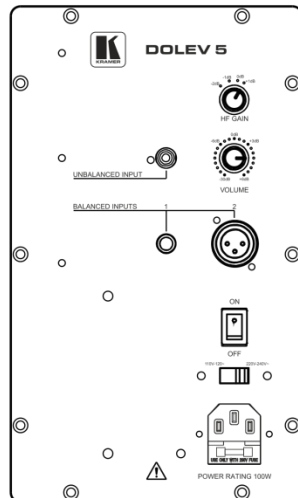
Step 3: Install the speakers

Always switch OFF the power on each device before connecting it to your Speakers.

To install the speakers:

- Set the speaker to mid/near-field or far-field installation
- Connect one of the available inputs
- Set the volume level to 12 o'clock (0dB)
- Connect the power
- Set the volume on the input source to the minimum
- Switch the **Dolev 5** power on
- On the input source, increase the volume control knob slowly to the desired level
- Adjust the high frequency response

For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to your speakers



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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 13 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; GROUP 11: Sierra Video Products; GROUP 12: Digital Signage; and GROUP 13: Audio.

Congratulations on purchasing your Kramer **Dolev 5 2-Way, Bi-Amplified Studio-Grade** Speaker, which is ideal for the following typical applications:

- Home theater
- Sports bars
- Luxurious Boardrooms

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 (such as the Kramer C-XLQM/XLQF) 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 **Dolev 5** 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.



Do not open the housing of the speaker; doing so may reduce the quality of the sound.

2.2 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 **Dolev 5** is a high-quality, high-fidelity, studio grade speaker designed and crafted for superior clarity and detail for high-end applications or any other task that requires precise, accurate and detailed sound, even at high volume levels.

The **Dolev 5** ensures that you hear exactly what is happening in the music and reveals all the original nuances of the sound, without adding to or subtracting from the signal. Premium components, an advanced cabinet design, and efficient bi-amplification come together to provide superior full-range sound—from crystal-clear highs, to deep, rich bass tones. You can be confident that your music sounds its best in any listening environment.

The **Dolev 5** features:

- A Two-way, bass-reflex, bi-amplified speaker
- A 5.25" fiberglass woofer and a 1" neodymium dome tweeter
- 1 unbalanced and 2 balanced audio inputs
- Four-position high-frequency gain control
- A volume adjustment control knob
- Magnetic shielding

4 Defining the Dolev 5

This section defines the powered **Dolev 5**:

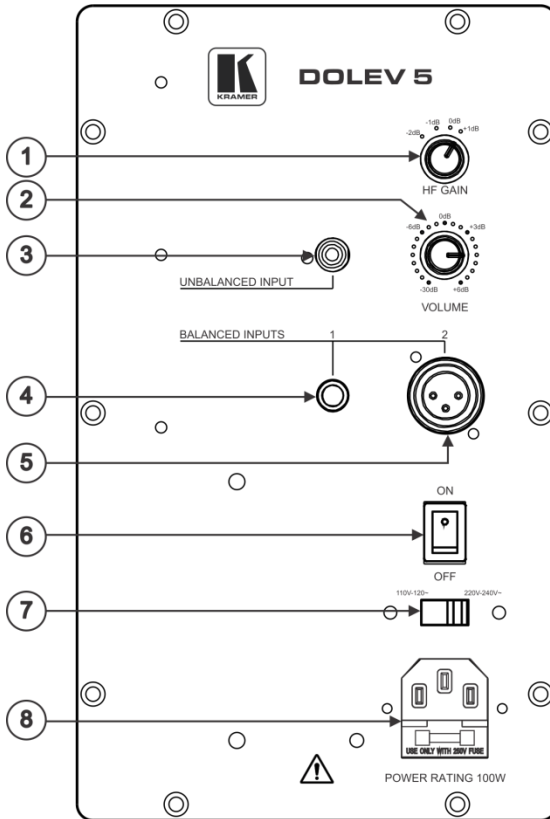


Figure 1: Dolev 5 Active 2-Way, Bi-Amplified Studio-Grade Speaker

#	Feature	Function
1	HF GAIN Selector Knob	Choose one of the 4 settings of the high frequencies gain: -2dB, -1dB, 0dB or +1dB
2	VOLUME Control Knob	Rotate the button to adjust the audio volume
3	UNBALANCED INPUT RCA Connector	Connect to an unbalanced audio source
4	BALANCED INPUT	1 6.3mm TRS Phone
5	CONNECTORS	2 XLR
6	ON Switch	Set to ON to power the speaker
7	POWER Settings Slide Switch	Set to 110-120V or to 220-240V
8	Power Connector with Fuse	AC connector, enabling power supply to the unit

5 Installing the Speaker

This section explains how to:

- Choose the best location for your speakers (see [Section 5.1](#))
- Setup mid/near-field (see [Section 5.2](#)) or far-field (see [Section 5.3](#)) Installation
- Install the speaker (see [Section 5.4](#))

5.1 Choosing the Best Location

For optimum installation:

- Speakers should be positioned at least 50cm from the walls
- Install the **Dolev 5** so that the center point between the tweeter and the woofer are at ear level. If required, use a speaker stand
- If required, use sound absorbing materials around the room
- Place the speaker facing towards the listener to minimize the distance and reflections from the walls and get the best stereo image

5.2 Setting up Mid/Near-Field Installation

Mid-field or near-field installation is usually directed towards a specific listener or listeners in a specific location of the room. To maximize your listening experience:

1. Make sure that the speakers are set at head height (whether you will be using the speakers sitting down or standing up).

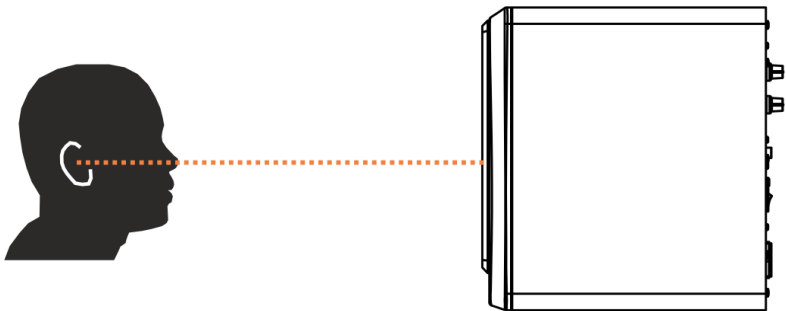


Figure 2: setting the Dolev 5 at head height

2. Position the speaker at an angle so that together with the listener, an equilateral triangle is created.
3. Try to keep the speakers at a distance of about 50cm from the walls
4. Try to keep a distance of about 1.5 to 2 meters between the speakers.

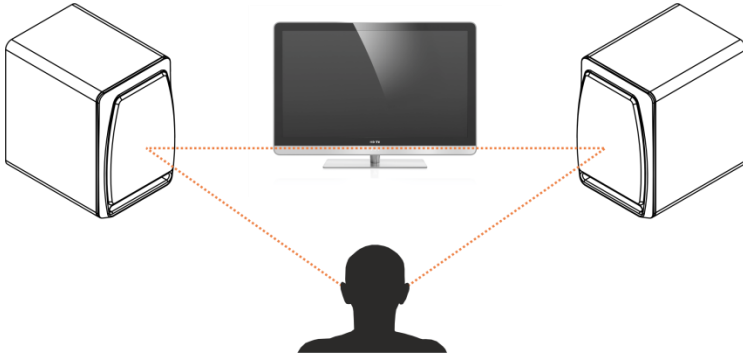


Figure 3: Dolev 5 Optimum positioning



Note that even though the illustration in [Figure 3](#) shows two speakers each **Dolev 5** package includes one speaker.

5.3 Setting up Far-Field Installation

Far-field positioning is suitable for a large amount of listeners (unlike the near-field positioning where the speakers are directed at a specific listener). To maximize the listening experience:

1. Make sure that the speakers are facing the center of the room.
2. Make sure that both speakers are placed along the same wall in the room (not facing each other).
3. Aim to achieve the largest sweet spot.

For optimum results we recommend that you either experiment and locate the sweet spot by trial-and-error or alternatively, consult an acoustic engineer.

5.4 Installing the Speaker

To install the speaker, do the following:

1. Connect one of the following inputs:
 - An unbalanced input (for example, a computer sound card, portable player or DVD/CD player – C-A35M/2RAM) to the UNBALANCED INPUT RCA connector
 - A balanced input (for example, a professional mixer or audio interfaces) to the BALANCED INPUT 6.35mm TRS connector
 - A balanced input (for example, a professional mixer or audio interfaces) to the BALANCED INPUT XLR connector
2. Set the volume on the **Dolev 5** to 12 o'clock (0dB)
3. Connect the power.
4. Set the volume on the input source to the minimum.
5. Switch the **Dolev 5** power on.
6. On the input source, increase the volume control slowly until the desired level is achieved.
7. Adjust the high frequency response according to the room conditions:
 - A heavily dampened room requires raised high frequencies
 - A resonant room requires reduction of the high frequencies

6 Technical Specifications

Audio and Power	
DESCRIPTION:	2-way Bi-Amplified powered speaker
BUILT IN POWER AMPLIFIER:	50W RMS Tweeter: 30W; Woofer: 30W
AMPLIFIER CLASS	A/B
FREQUENCY RESPONSE:	55Hz to 20kHz @ ±3dB
WOOFER:	5.25" fiberglass cone, rubber surround
TWEETER	1" soft silk dome, neodymium
SENSITIVITY:	88dB SPL, 1W@1m
MAX SPL:	109dB
POWER SOURCE:	110V AC 60Hz 220V AV 50Hz
CROSSOVER FREQUENCY:	3.7kHz
CONTROLS:	Volume and high-frequency gain
INPUT CONNECTORS:	1 balanced XLR connector 1 balanced ¼" TRS connector 1 unbalanced RCA connector
Shipping and Installation	
MATERIALS:	Wooden cabinet, magnet-held fabric grille
WEIGHT OF SPEAKER:	6.14kg (6.83lbs) approx.
SHIPPING WEIGHT:	6.68kg (13.23lbs) approx.
DIMENSIONS:	18.6cm x 25.4cm x 27.7cm (7.2" x 6.7" x 9.6") W, D, H
INCLUDED ACCESSORIES:	Power cord
COLORS:	Available in black
OPTIONS:	XLR quad cable (C-XLQM/XLQF); 3.5mm to 2 RCA breakout cable (C-A35M/2RAM)
Specifications are within a 10% tolerance and 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

One year 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.

Limitation on Liability

THE MAXIMUM LIABILITY OF KRAMER ELECTRONICS UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, KRAMER ELECTRONICS IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

Exclusive Remedy

TO THE MAXIMUM EXTENT PERMITTED BY LAW, THIS LIMITED WARRANTY AND THE REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED. TO THE MAXIMUM EXTENT PERMITTED BY LAW, KRAMER ELECTRONICS SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF KRAMER ELECTRONICS CANNOT LAWFULLY DISCLAIM OR EXCLUDE IMPLIED WARRANTIES UNDER APPLICABLE LAW, THEN ALL IMPLIED WARRANTIES COVERING THIS PRODUCT, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO THIS PRODUCT AS PROVIDED UNDER APPLICABLE LAW.

IF ANY PRODUCT TO WHICH THIS LIMITED WARRANTY APPLIES IS A "CONSUMER PRODUCT" UNDER THE MAGNUSON-MOSS WARRANTY ACT (15 U.S.C.A. §2301, ET SEQ.) OR OTHER APPLICABLE LAW, THE FOREGOING DISCLAIMER OF IMPLIED WARRANTIES SHALL NOT APPLY TO YOU, AND ALL IMPLIED WARRANTIES ON THIS PRODUCT, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR THE PARTICULAR PURPOSE, SHALL APPLY AS PROVIDED UNDER APPLICABLE LAW.

Other Conditions

This limited warranty gives you specific legal rights, and you may have other rights which vary from country to country or state to state.

This limited warranty is void if (i) the label bearing the serial number of this product has been removed or defaced, (ii) the product is not distributed by Kramer Electronics or (iii) this product is not purchased from an authorized Kramer Electronics reseller. If you are unsure whether a reseller is an authorized Kramer Electronics reseller, please visit our Web site at www.kramerelectronics.com or contact a Kramer Electronics office from the list at the end of this document.

Your rights under this limited warranty are not diminished if you do not complete and return the product registration form or complete and submit the online product registration form. Kramer Electronics thanks you for purchasing a Kramer Electronics product. We hope it will give you years of satisfaction.



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.

Web site: www.kramerelectronics.com

E-mail: info@kramerel.com



SAFETY WARNING

Disconnect the unit from the power supply before opening and servicing



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Rev: 1