

KRAMER ELECTRONICS LTD.

USER MANUAL

MODEL:

Yarden 6-0 (SPK-W614T-K)

On-Wall Speakers

P/N: 2900-300353 Rev 1





Yarden 6-O 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



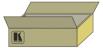
Yarden 6-O On-wall Speakers



2 Mounting brackets



4 Mounting screws 1 Quick start quide



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

Step 2: Choose the best location

Before installing the speakers:

- Experiment by placing the speakers in different locations before finally deciding on the most suitable
- Be sure that the wall type is appropriate for the mounting brackets, that is, either solid wood, bricks, concrete, hollow building blocks, or wood studs
- Check that the mounting location is free of obstructions, such as electrical piping, AC ducts or water lines, and so on

Step 3: Install the speakers

To install the speakers:

■ Cut the black and white dual color wires to similar lengths, leaving some access wire to easily remove the speakers from the brackets

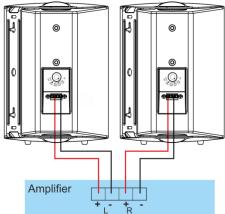
- Connect the mounting brackets
- Adjust the tap setting



■ Connect the wires to the appropriate terminal block connectors

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

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



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Yarden 6-O – Contents

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 **Yarden 6-O** On-Wall Speakers, which are ideal for:

- Conference rooms
- Boardrooms and classrooms
- Multimedia systems
- Lecture venues and halls

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 Speakers 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 **Yarden 6-O** includes a pair of high performance indoor on-wall speakers that can be mounted on the wall either vertically or horizontally. The mounting brackets, made of painted steel, can be attached to each speaker, letting you rotate each speaker from side to side. The **Yarden 6-O** speakers feature a multitap power transformer for selecting 8Ω (bypassing the transformer) or 70V/100V power settings that are suitable for an array installation.

3.1 Defining the Yarden 6-O

This section defines the Yarden 6-O:

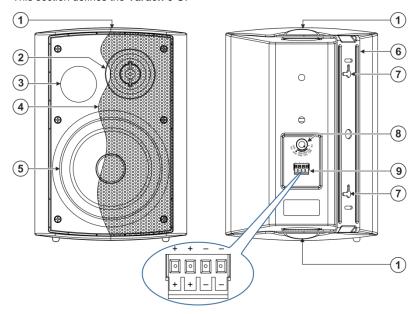


Figure 1: Yarden 6-O

#	Feature	Function		
1	Bracket knobs (2)	Use two knobs to fasten the bracket to the speaker		
2	Tweeter	Reproduces the higher frequency sounds		
3	Bass Port	Enforces the low-frequency sounds		
4	Speaker Grille	Protects the internal components of the speaker from foreign objects		
		Do not remove this from the speakers		
5	Woofer Driver	Reproduces low frequencies		
6	Bracket	Use to mount the speaker onto the wall (allowing rotation to the left/right side)		
7	Keyhole Mounting Point	Use to attach the bracket to the wall		
8	Tap Selector	Adjust each speaker to the appropriate tap setting: For 70V: 7.5W, 15W, 30W or 60W For 100V, select 15W, 30W or 60W Or select 8Ω (to bypass the transformer when connecting directly to an amplifier without using the 70/100V array option), see Figure 2		
9	Input and Output Terminal Block Connectors	One +, - pair for the input and the other pair to output to the next speaker in an array configuration (see Section 4.4)		

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4 Installing the Yarden 6-O

This section explains how to:

- Choose the best location for your speakers (see Section 4.1)
- Install the speaker wires (see Section 4.2)
- Install the mounting brackets (see Section 4.3)
- Setup an array installation (see <u>Section 4.4</u>)
- Connect the Yarden 6-O (see Section 4.5)

4.1 Choosing the Best Location

Before installing the speakers:

- Experiment by placing the speakers in different locations before finally deciding on the most suitable location
- Be sure that the wall type is appropriate for the mounting brackets, that is, either solid wood, bricks, concrete, hollow building blocks, or wood studs
- Check that the mounting location is free of obstructions, such as electrical piping, AC ducts or water lines, and so on

4.2 Installing the Speaker Wires

To install the speakers, do the following:

- 1. Prepare the wires for the speakers:
 - Cut the wires to similar lengths
 For achieving high quality sound
 - Measure the length from each speaker to the receiver, and cut the wires accordingly, adding some access wire length to let you easily remove the speakers from the bracket without having to disconnect the input wires
- 2. Strip the ends of the wires to expose a length of approximately 3/8 inch.

- 3. Pass the speaker wires through the round hole in the mounting bracket (see Section 4.3).
- Adjust each speaker to the appropriate tap setting (see <u>Figure 2</u>).
 Set the tap according to the power requirements of the speaker based on its location in the room (for example, a speaker located in a remote corner may require additional power)

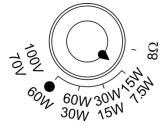


Figure 2: Adjust Tap Selector

- Connect one of the + and terminal block pairs on the rear panel (see Figure 1) by connecting the wire from the:
 - Negative terminal on the receiver into the negative terminal block of the speaker
 - Positive terminal on the receiver into the positive terminal block of the speaker
- 6. Repeat step 5 for the other speaker (see Figure 7).
- If required, connect the + and terminal blocks to the + and terminal blocks to an adjacent speaker (as illustrated in the example in Figure 6).

4.3 Installing the Mounting Bracket

To install the mounting brackets, do the following:

- 1. Mark the location of the mounting holes on the wall.
- 2. Screw the mounting screws onto the wall at the location that you want to mount the speakers.
 - If the location is backed by wall studs, you can use the wood screws provided. If the location is backed by a gypsum board, use wall anchors (not included in the package).

- 3. Slide a speaker into each mounting bracket.
- 4. Align the bracket screw holes (upper and lower) to those on the speaker and screw a knob to each of the holes to secure the speaker to the bracket (see Figure 3).

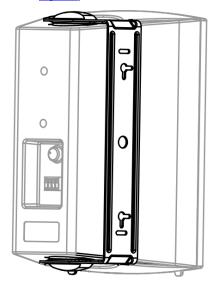


Figure 3: Yarden 6-O with Brackets Connected

- 5. Slide the mounting bracket over the mounting screws so that the mounting bracket is secured to the surface.
- 6. You can slightly loosen the knobs on a speaker to adjust its direction.

4.4 Setting up an Array Installation

When installing the **Yarden 6-O** in an array installation layout, you need to define the distance between speakers as well as the layout pattern (square or hexagonal). The distance between speakers is set according to the uniformity of the coverage desired and the budget.

The coverage angle of the speaker determines the coverage area and the number of speakers required in the array installation. Two patterns are usually used for array installations, square (see Figure 4) or hexagonal (see Figure 5), depending on the shape of the installation area. The speakers are positioned according to their coverage area.



Figure 4: Square Layout

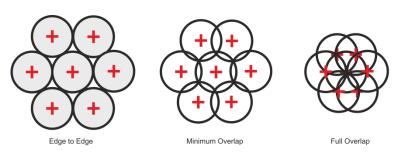


Figure 5: Hexagonal Layout

You can set the power on each speaker to get the desired power level in different installation areas.

Figure 6 shows an example of parallel wiring in a square array installation:

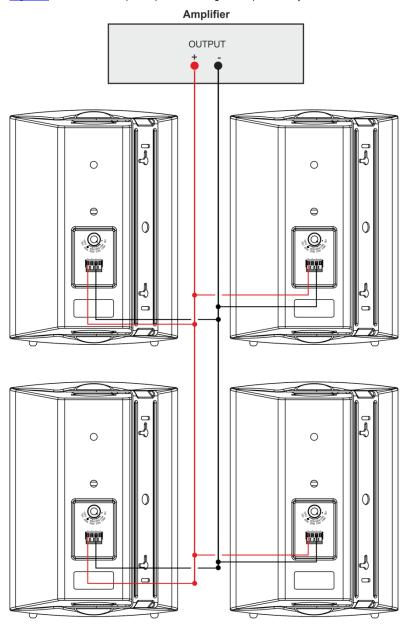


Figure 6: Square Layout Parallel Wiring

4.5 Connecting the Yarden 6-O

You can connect the **Yarden 6-O** speakers to an amplifier, for example the Kramer **905xl** Power Amplifier/Mixer, as illustrated in Figure 7:

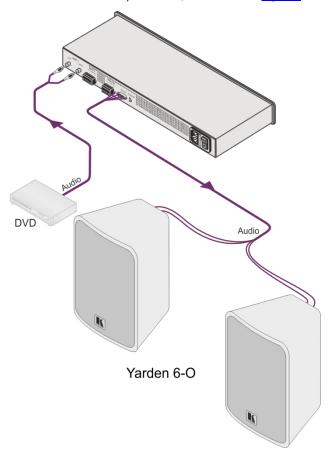


Figure 7: Connecting the Yarden 6-O

5 Technical Specifications

Audio and Power					
DESCRIPTION:		2-way on-wall speakers			
FREQUENCY RESPONSE:		65Hz to 20kHz @ -10dB			
		83Hz to 20kHz @ ±3dB			
WOOFER:		6.5" (166mm) Kevlar(R) with rubber surround			
TWEETER:		1" (25.4mm) titanium			
IMPEDANCE:		8Ω (transformer tap in off position)			
TRANSFORMER TAPS:		70V - 60W / 30W / 15W / 7.5W / Off (Lo-Z)			
		100V – 60W / 30W / 15W / Off (Lo-Z)			
SENSITIVITY:		86dB SPL, 1W@1m			
MAX SPL:		Continuous: 104dB			
		Peak: 107dB			
POWER HANDLING		80W RMS			
		220W continuous program			
CROSSOVER FREQUENCY:		1.9kHz			
DIRECTIVITY FACTOR (Q):		7.1, averaged 1kHz to 10kHz			
DIRECTIVITY INDEX (DI)		8.5dB averaged 1kHz to 10kHz			
INPUT CONNECTORS:		Terminal blocks			
	Shipping and Installation				
MATERIALS:	_	me, aluminum grill, steel brackets and ABS cabinet			
OPERATING C TEMPERATURE:		o +40°C (32° to 104°F)			
STORAGE TEMPERATURE: -		to +70°C (-40° to 158°F)			
HUMIDITY:	10%	10% to 90%, RHL non-condensing			
WEIGHT PER SINGLE SPEAKER		3kg (8.66lbs) approx.			
WEIGHT WITH MOUNTING KIT:		Skg (9.22lbs) approx.			
SHIPPING WEIGHT (FOR PAIR):		(19.84lbs) approx.			
DIMENSIONS:	21.5	5cm x 19.4cm x 30.1cm (8.5" x 7.6" x 11.9"), W, D, H.			
		5cm x 22.5cm x 30.1cm (8.5" x 8.9" x 11.9"), W, D, H.			
		nt panel to wall (with mounting bracket): 22.7cm (8.9")			
		k panel to wall (with mounting bracket): 3.8cm (1.5")			
ACCESSORIES: 2 mg scre		ounting brackets (including 4 knobs and 4 mounting ews)			
OPTIONS: BCF		P-2S speaker cable			
COLORS: Av		ilable in white or black			
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.

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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 APPICABLE 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

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: $\underline{www.kramerelectronics.com}$

E-mail: info@kramerel.com







SAFETY WARNING Disconnect the unit from the power supply before opening and servicing



