

Kramer Electronics, Ltd.



USER MANUAL

Model:

SPK-OCA508

On-Wall 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 the video, audio, presentation, and broadcasting professional 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 groups¹ that are clearly defined by function.

Congratulations on purchasing your Kramer **SPK-OCA508** *Active On-Wall Speakers*, which are ideal for:

- Home theater sound systems
- Conference rooms
- Presentation venues

The package includes the following items:

- **SPK-OCA508** Active Speakers
- 1 stereo 3.5mm mini plug cable
- 1 UL AC power cord
- 1 VDE AC power cord
- 1 pair of wall/ceiling mounting brackets with 4 mounting bracket screws
- This user manual²

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
- Use Kramer high performance cables³

1 GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Matrix Switchers; 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 Products

2 Download up-to-date Kramer user manuals from the Internet at this URL: <http://www.kramerelectronics.com>

3 The complete list of Kramer cables is on our Web site at <http://www.kramerelectronics.com>

3 Overview

The **SPK-OCA508** is a powered two-way speaker system designed for indoor wall mounting. The system accepts a line level stereo input and amplifies it using a built-in amplifier and outputs a speaker signal to the passive speaker.

The **SPK-OCA508** speaker system includes:

- Two available inputs (either one can be used at a time, not both):
 - Line level stereo inputs on a 3.5mm mini connector
 - A terminal block connector
- An output to external amplified or non-amplified speakers
- An output to an external sub-woofer
- A unique looping output, letting you chain additional pairs of active and passive speakers
- A control panel on the back of the active speaker that controls all the functions of both speakers
- A magnetic shield
- An enhanced bass reflex system
- An integrated 2x20W stereo amplifier, requiring no exterior amplifier
- A power selector for using 115 or 240V and auto-power off

The **SPK-OCA508** can be mounted indoors on the wall, vertically or horizontally. The mounting brackets are made of hardened steel that attach to each speaker, letting you rotate each speaker to the left or right.

[Figure 1](#) and [Figure 2](#) show examples of how the speakers can be installed in conference room and home theater setups, respectively.

Overview

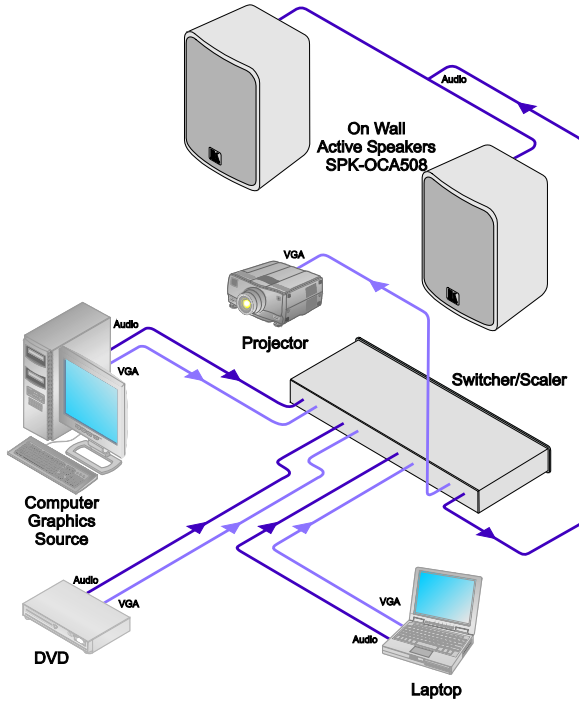


Figure 1: Active On-Wall Speakers in a Conference Room Setup

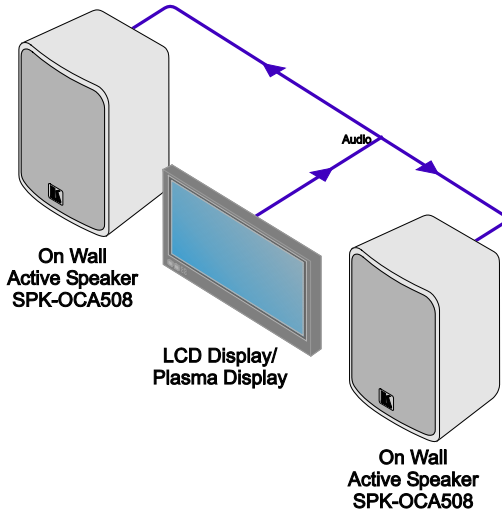


Figure 2: Active On-Wall Speakers in a Home Theater Setup

3.1 Obtaining the Best Performance

To ensure that you obtain the best sound results:

- Do not open the housing of the passive speaker or the active speaker
- Select the correct power supply before plugging into a wall socket

To achieve the best performance:

- Connect only good quality connection cables¹, thus avoiding interference, deterioration in signal quality due to poor matching, and elevated noise-levels (often associated with low quality cables)
- Avoid interference from neighboring electrical appliances and position your Kramer **SPK-OCA508** away from moisture, excessive sunlight and dust

4 Your SPK-OCA508

[Figure 3](#) and [Table 1](#) define the active **SPK-OCA508**:

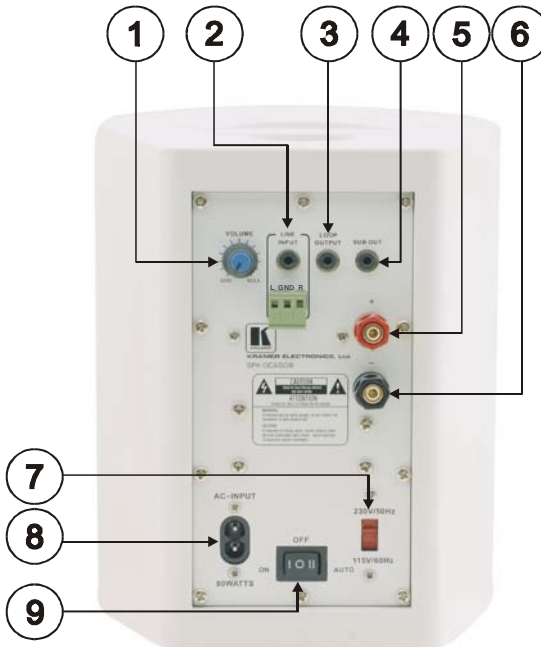


Figure 3: SPK-OCA508 Active Speaker

¹ Such as the Kramer BC-2S cable

Table 1: SPK-OCA508 Features (for the Active Speaker)

#	Feature		Function
1	VOLUME Button		Rotate the button to adjust the audio volume
2	LINE INPUT	3.5mm Mini Connector	Connect the audio source to either connector
		3-pin Terminal Block	
3	LOOP OUTPUT 3.5mm Mini Connector		Connect to another pair of active speakers
4	SUB OUT 3.5mm Mini Connector		If required, connect an active sub-woofer to this output for maximum bass reproduction
5	Active Speaker Stereo Sockets	Red (+)	Connect the active speaker to the black and red stereo sockets on the passive speaker
6		Black (-)	
7	Voltage Selector Switch		Push up for 230V/50Hz down for 115V/60Hz
8	AC-INPUT Power Supply		Connector to the AC power cord
9	POWER Switch		For turning the unit ON (I), OFF (0) or AUTO off (II)

5 Installing the Speakers

This section explains how to:

- Choose the best location for your speakers (see section [5.1](#))
- Install the speaker wires (see section [5.2](#))

5.1 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. You cannot mount the brackets on gypsum walls
- Check that the mounting location is free of obstructions, such as electrical piping, AC ducts or water lines, and so on

5.2 Installing the Speaker Wires

To install the speakers, do the following:

1. Connect the black and red stereo sockets of the active speaker to the black and red stereo sockets of the passive speaker using the cable supplied, as follows:

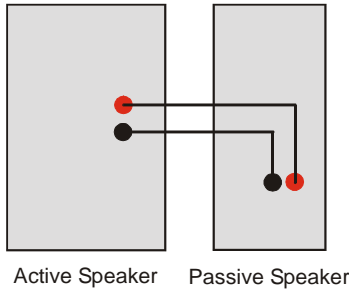


Figure 4: Connecting the Speakers

2. Set the red power selector switch to the correct setting for your country.
3. Connect the input source (for example, a CD or a DVD player and so on).
4. Connect the power.
5. Adjust the volume on the input source.
6. Adjust the volume control on the rear side control panel.
7. If required, connect an additional set of speakers by connecting the LOOP OUTPUT connector to the input of a second active speaker.
8. If required, mount the speaker on the wall via the removable mounting brackets. To do so:
 - Mark the location of the mounting holes
 - Screw the mounting screws¹ into the mounting holes
 - Slide the mounting bracket over the mounting screws so that the mounting bracket is secured to the surface

¹ Not included in the package

6 Technical Specifications

[Table 2](#) includes the technical specifications¹ of the **SPK-OCA508**:

Table 2: Technical Specifications of the SPK-OCA508

INPUT:	Line level stereo audio on a 3.5mm mini connector and terminal block connector
OUTPUTS:	1 speaker (to connect to the external passive speaker) 1 active sub-woofer on a 3.5mm mini connector 1 looping output on a 3.5mm mini connector
SPEAKER TYPE:	Two-way bass reflex, on-wall speaker
WOOFER:	5.25" (133mm) polypropylene cone/rubber surround
TWEETER:	0.75" (20mm) silk dome tweeter
PASSIVE:	27mm piezo dome
FREQUENCY RESPONSE:	45Hz to 20kHz
IMPEDANCE:	8Ω
SENSITIVITY:	85dB-SPL @1W, 1m
BUILT-IN POWER AMPLIFIER:	2x20W RMS in active speaker
CONTROL:	Volume control
UNIVERSAL POWER SUPPLY:	115 or 230V AC (selectable)
STANDBY MODE POWER CONSUMPTION:	0.5W
MATERIALS:	Frame, grill and brackets steel; housing ABS
INSTALLATION CLEARANCE:	Front panel to wall (including mounting bracket): 20cm Back panel to wall (including mounting bracket): 3cm
DIMENSIONS:	17cm x 19cm x 23.6cm (6.7" x 7.5" x 9.3") W, D, H
ACCESSORIES:	2 mounting brackets (fixed and rotating) 3m power cord and a loudspeaker cable
WEIGHT:	Active speaker 3.57kg (7.87lbs) approx. Passive speaker 2.53kg (5.58lbs) approx.

¹ Specifications are subject to change without notice



LIMITED WARRANTY

Kramer Electronics (hereafter *Kramer*) warrants this product free from defects in material and workmanship under the following terms.

HOW LONG IS THE WARRANTY

Labor and parts are warranted for one year from the date of the first customer purchase.

WHO IS PROTECTED?

Only the first purchase customer may enforce this warranty.

WHAT IS COVERED AND WHAT IS NOT COVERED

Except as below, this warranty covers all defects in material or workmanship in this product. The following are not covered by the warranty:

1. Any product which is not distributed by Kramer, or which is not purchased from an authorized Kramer dealer. If you are uncertain as to whether a dealer is authorized, please contact Kramer at one of the agents listed in the Web site www.kramerelectronics.com.
2. Any product, on which the serial number has been defaced, modified or removed, or on which the WARRANTY VOID IF TAMPERED sticker has been torn, reattached, removed or otherwise interfered with.
3. Damage, deterioration or malfunction resulting from:
 - i) Accident, misuse, abuse, neglect, fire, water, lightning or other acts of nature
 - ii) Product modification, or failure to follow instructions supplied with the product
 - iii) Repair or attempted repair by anyone not authorized by Kramer
 - iv) Any shipment of the product (claims must be presented to the carrier)
 - v) Removal or installation of the product
 - vi) Any other cause, which does not relate to a product defect
 - vii) Cartons, equipment enclosures, cables or accessories used in conjunction with the product

WHAT WE WILL PAY FOR AND WHAT WE WILL NOT PAY FOR

We will pay labor and material expenses for covered items. We will not pay for the following:

1. Removal or installations charges.
2. Costs of initial technical adjustments (set-up), including adjustment of user controls or programming. These costs are the responsibility of the Kramer dealer from whom the product was purchased.
3. Shipping charges.

HOW YOU CAN GET WARRANTY SERVICE

1. To obtain service on you product, you must take or ship it prepaid to any authorized Kramer service center.
2. Whenever warranty service is required, the original dated invoice (or a copy) must be presented as proof of warranty coverage, and should be included in any shipment of the product. Please also include in any mailing a contact name, company, address, and a description of the problem(s).
3. For the name of the nearest Kramer authorized service center, consult your authorized dealer.

LIMITATION OF IMPLIED WARRANTIES

All implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to the length of this warranty.

EXCLUSION OF DAMAGES

The liability of Kramer for any effective products is limited to the repair or replacement of the product at our option. Kramer shall not be liable for:

1. Damage to other property caused by defects in this product, damages based upon inconvenience, loss of use of the product, loss of time, commercial loss; or:
2. Any other damages, whether incidental, consequential or otherwise. Some countries may not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from place to place.

NOTE: All products returned to Kramer for service must have prior approval. This may be obtained from your dealer.

This equipment has been tested to determine compliance with the requirements of:

EN-50081:	"Electromagnetic compatibility (EMC); generic emission standard. Part 1: Residential, commercial and light industry"
EN-50082:	"Electromagnetic compatibility (EMC) generic immunity standard. Part 1: Residential, commercial and light industry environment".
CFR-47:	FCC* Rules and Regulations: Part 15: "Radio frequency devices Subpart B Unintentional radiators"

CAUTION!

- Servicing the machines can only be done by an authorized Kramer technician. Any user who makes changes or modifications to the unit without the expressed approval of the manufacturer will void user authority to operate the equipment.
- Use the supplied DC power supply to feed power to the machine.
- Please use recommended interconnection cables to connect the machine to other components.

* FCC and CE approved using STP cable (for twisted pair products)



For the latest information on our products and a list of Kramer distributors, visit our Web site: www.kramerelectronics.com, where updates to this user manual may be found. We welcome your questions, comments and feedback.

