

Kramer Electronics, Ltd.



USER MANUAL

Model:

6505

1:5 S/PDIF Distributor

Contents

1	Introduction	1
2	Getting Started	1
2.1	Quick Start	1
3	Overview	3
3.1	About the 6505 1:5 S/PDIF Distributor	3
3.2	Recommendations for Achieving the Best Performance	3
4	Your 6505 1:5 S/PDIF Distributor	4
5	Connecting the 6505 1:5 S/PDIF Distributor	5
6	Technical Specifications	6

Figures

Figure 1: 6505 1:5 S/PDIF Distributor	4
Figure 2: Connecting the 6505 1:5 S/PDIF Distributor	5

Tables

Table 1: 6505 1:5 S/PDIF Distributor Features	4
Table 2: 6505 1:5 S/PDIF Distributor Technical Specifications	6

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 DigiTOOLS® **6505 1:5 S/PDIF Distributor**, which is ideal for:

- Video and audio production facilities
- Recording studios, for connecting a source to several acceptors

The package includes the following items:

- **6505 1:5 S/PDIF Distributor**
- Power adapter (5V DC Input)
- 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 high resolution cables³

2.1 Quick Start

This quick start chart summarizes the basic setup and operation steps.

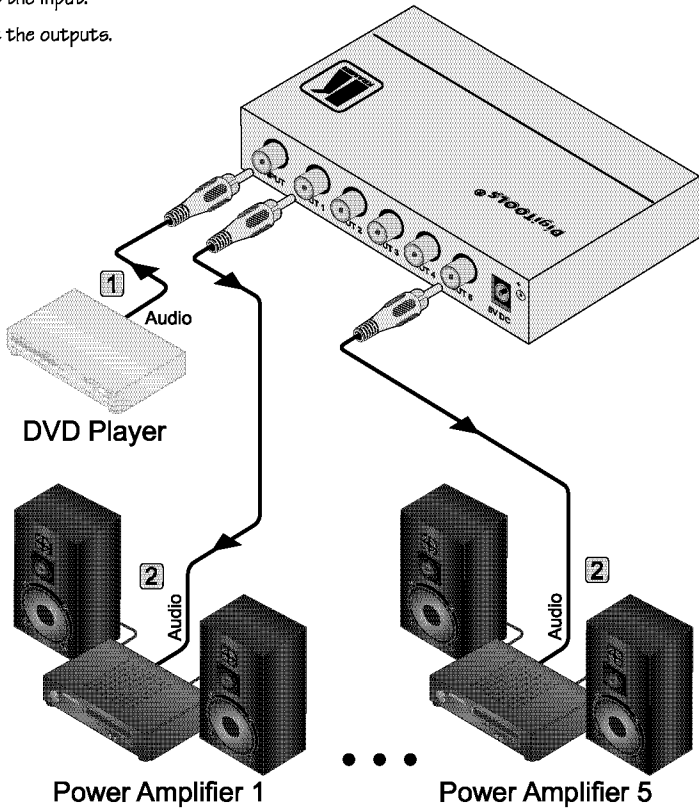
1 GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Matrix Switchers; GROUP 3: Control Systems; GROUP 4: Format/Standards Converters; GROUP 5: Twisted-Pair Solutions; GROUP 6: Specialty AV Products; GROUP 7: Scan Converters and Scalers; GROUP 8: Cables and Connectors; GROUP 9: Room Connectivity; 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>

Step 1: Connect the input and the outputs - see section 5

- 1 Connect the input.
- 2 Connect the outputs.



Step 2: Connect the power

3 Overview

This section summarizes:

- The **6505 1:5 S/PDIF Distributor** (see section 3.1)
- Recommendations for achieving the best performance (see section 3.2)

3.1 About the 6505 1:5 S/PDIF Distributor

The **6505 1:5 S/PDIF Distributor** is a small-sized but efficient distributor for S/PDIF digital audio signals. The **6505**:

- Takes an S/PDIF input and outputs the signal simultaneously to five S/PDIF acceptors
- Is compatible with EIAJ CP1201, IEC-60958, AES3id and S/PDIF standards
- Features a 32kHz to 192kHz sample frequency range
- Includes equalizing and reclocking of incoming data for low jitter recovery of the digital audio data stream

The **6505** is 5VDC fed and is housed in a DigiTOOLS® enclosure.

3.2 Recommendations for Achieving the Best Performance

To achieve the best performance:

- Connect only good quality connection cables, 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 **6505** away from moisture, excessive sunlight and dust



Caution – No operator-serviceable parts inside unit.

Warning – Use only the Kramer Electronics input power wall adapter that is provided with this unit¹.

Warning – Disconnect power and unplug unit from wall before installing or removing device or servicing unit.

¹ For example, part number 2535-052002

4 Your 6505 1:5 S/PDIF Distributor

Figure 1 and Table 1 define the **6505 1:5 S/PDIF Distributor**:

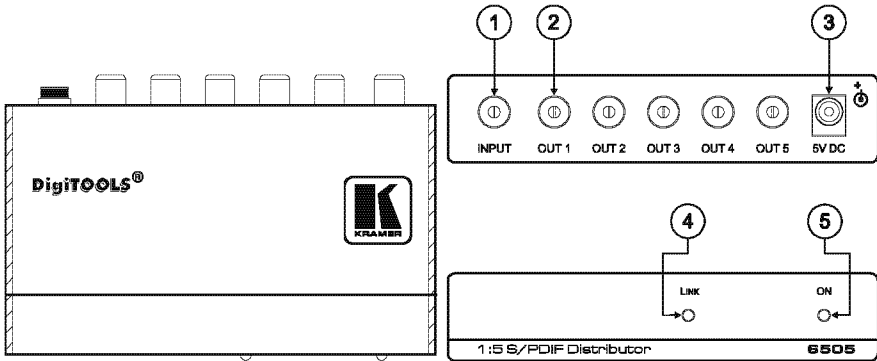


Figure 1: 6505 1:5 S/PDIF Distributor

Table 1: 6505 1:5 S/PDIF Distributor Features

#	Feature	Function
1	INPUT RCA Connector	Connect to the S/PDIF digital audio source
2	OUT RCA Connector	Connect to the S/PDIF digital audio acceptor (from 1 to 5)
3	5VDC	+5V DC connector for powering the unit
4	LINK LED	Illuminates when receiving the appropriate input signal
5	ON LED	Illuminates when receiving power

5 Connecting the 6505 1:5 S/PDIF Distributor

To connect your **6505 1:5 S/PDIF Distributor**, as illustrated in the example in Figure 2, do the following¹:

1. Connect an S/PDIF source (for example, a DVD Player) to the S/PDIF RCA input connector.
2. Connect up to five S/PDIF RCA output connectors to up to five S/PDIF acceptors (for example, power amplifiers).
3. Connect the 5V DC power adapter to the power socket and connect the adapter to the mains electricity (not shown in Figure 2).

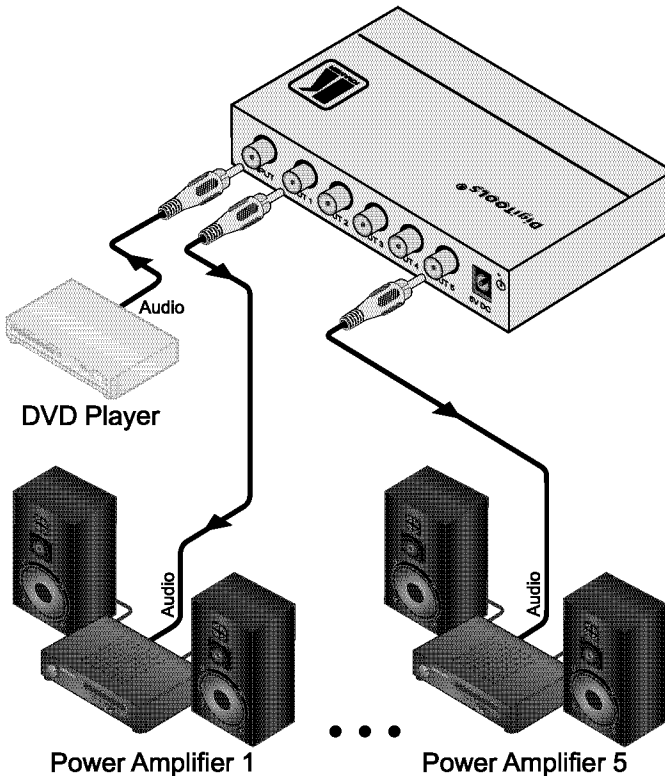


Figure 2: Connecting the 6505 1:5 S/PDIF Distributor

¹ Switch OFF the power on each device before connecting it to your 6505. After connecting your 6505, switch on its power and then switch on the power on each device

6 Technical Specifications

Table 2 includes the technical specifications for the **6505 1:5 S/PDIF Distributor**.

Table 2: 6505 1:5 S/PDIF Distributor Technical Specifications¹

INPUT:	1 S/PDIF digital audio input on an RCA connector
OUTPUTS:	5 S/PDIF digital audio outputs on RCA connectors
STANDARDS:	CP1201, IEC-60958, AES3id and S/PDIF
SAMPLE RATE:	32kHz to 192kHz
INPUT IMPEDANCE:	75Ω
OUTPUT IMPEDANCE:	75Ω
POWER SOURCE:	5V, 120mA, 5V/2A adapter
DIMENSIONS:	12cm x 6.95cm x 2.44cm (4.72" x 2.74" x 0.96", W, D, H)
WEIGHT:	0.3kg (0.66lbs.) approx.
ACCESSORIES:	Power supply, mounting bracket
OPTIONS:	19" rack adapters

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 seven years 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.

 <p>Caution</p>	<p>Safety Warning: Disconnect the unit from the power supply before opening/servicing.</p>
---	---



Kramer Electronics, Ltd.
Web site: www.kramerelectronics.com
E-mail: info@kramerelectronics.com
P/N: 2900-000420 REV 1