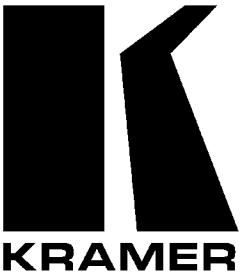
Kramer Electronics, Ltd.



USER MANUAL

Model:

FC-12E

Component to RGBS Transcoder

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1 Introduction

Dedication by Kramer Electronics since 1981, to the development and manufacture of high quality video/audio equipment, makes the Kramer line an integral part of the finest production and presentation facilities in the world. In recent years, Kramer has redesigned and upgraded most of the line, making the best even better! The Kramer line of professional video/audio electronics is one of the most versatile and complete available, and is a true leader in terms of quality, workmanship, price/performance ratio and innovation.

In addition to our high quality transcoders, we also offer excellent switchers and matrices, distribution amplifiers, remote controllers, processors, interfaces and computer-related products.

Congratulations on purchasing your Kramer **FC-12E** *Component to RGBS Transcoder*.

This product is ideal for the following typical applications:

- DVD playback on Scart equipped TVs or projectors
- Professional display systems and presentation applications
- Rental and staging

The package includes the following items:

- **FC-12E** Component to RGBS Transcoder
- Power supply

- This user manual
- Kramer concise product catalog/CD

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

3 Overview

Connect your DVD and VCR to the all-in-one Kramer **FC-12E** and enjoy the high quality results on your TV[1], video monitor or projector!

The **FC-12E**:

- Supports connecting your DVD and VCR simultaneously to your TV
- Converts component video format (Y, R-Y, B-Y) signals (for example, from a DVD) to the RGBS Scart input of a TV or a video monitor
- Can pass through standard video (to and from a Scart equipped VCR)
- Toggles the TV between video/RGBS/RF modes

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 that may adversely influence signal quality
- Position your Kramer **FC-12E** in a location free from moisture and away from excessive sunlight and dust

4 Your FC-12E

Figure 1 illustrates the front and rear panels of the **FC-12E**. Tables 1 and 2 define the front and rear panels of the **FC-12E**, respectively.

1 Equipped with a RGB Scart type connector

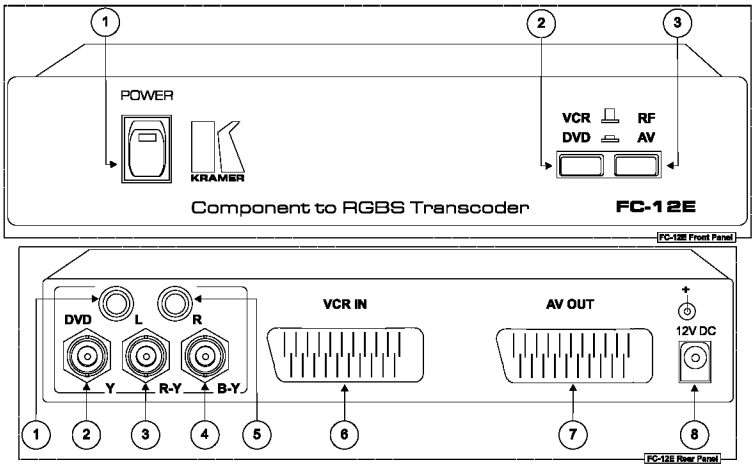

Figure 1: FC-12E Component to RGBS Transcoder

Table 1: Front Panel FC-12E Component to RGBS Transcoder

#	Feature	Function
1	*POWER* Switch	Illuminated switch supplying power to the unit
2	*VCR/DVD* Button	Push *OUT* when selecting the VCR (via the "VCR IN" SCART) Push *IN* when selecting the DVD via the 3 BNC connectors and 2 RCA connectors associated with DVD
3	*RF/AV* Button	Push *OUT* for RF (the TV takes the signal from the antenna) Push *IN* for selecting either the VCR or the DVD

Table 2: Rear Panel FC-12E Component to RGBS Transcoder

#	Feature	Function
1	*DVD L*	Left audio input from DVD on RCA connector
2	*DVD R*	Right audio input from DVD on RCA connector
3	*Y*	Y Component input from DVD on BNC connector
4	*R-Y*	R-Y Component input from DVD on BNC connector
5	*B-Y*	B-Y Component input from DVD on BNC connector
6	*VCR IN*	Scart connector from external video source (e.g., VCR)
7	*AV OUT*	Output to TV equipped with Scart
8	*12V DC*	Power Connector 12 VDC, 500mA

4.1 Connecting Your FC-12E

Connect your DVD and TV to your **FC-12E**[1]. If using a VCR, instead of connecting the VCR to the TV, connect it via the VCR IN connector on the **FC-12E**, as Figure 2 illustrates:

1 Connect the FC-12E to the power supply

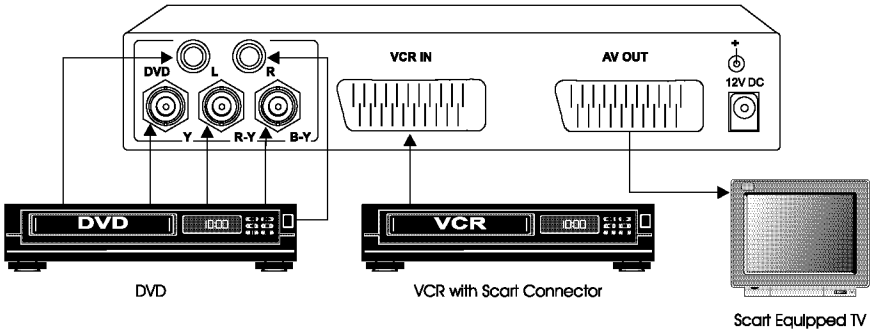

Figure 2: FC-12E Component to RGBS Transcoder Connections

4.2 Using Your FC-12E

Using your **FC-12E,** you can enjoy viewing and listening to both DVDs and video cassettes on your Scart TV, video monitor or projector.

To view and listen to a DVD on your TV, video monitor or projector:

1. Push *IN* the VCR/DVD button.
   This selects the DVD mode.
2. Push *IN* the RF/AV button.
   This selects the AV mode.
3. Switch on the DVD and the TV.
4. Insert your DVD and enjoy!

To view and listen to a video cassette on your TV, video monitor or projector:

1. Ensure that the VCR/DVD button is pushed *OUT*.
   This selects the VCR mode.
2. Push *IN* the RF/AV button.
   This selects the AV mode.
3. Switch on the VCR and TV.
4. Insert your video cassette and enjoy!

5 Technical Specifications

Table 3 includes the technical specifications:

Table 3: Technical Specifications of the FC-12E Component to RGBS Transcoder

Inputs:	1 component video - (Y, R-Y, B-Y) 1V, 0.7V, 0.7Vpp / 75Ω on BNCs 1 audio stereo 1Vpp / 50kΩ nom. on RCAs
Outputs:	RGBS on a scart type connector, with video / audio pass through
Video Bandwidth:	20 MHz -3dB
Max. Video Level:	2.1 Vpp
Non Linearity:	<0.3%
Video S/N	>69 dB
K-Factor:	<0.2%
Control	VCR / DVD selector switch, AV / RF selector switch
Dimensions:	22cm x 18cm x 4.5cm (8.6" x 7" x 1.8") W, D, H.
Power Source:	12 VDC, 500 mA
Weight:	1.3 kg. (2.9 lbs.) approx.
Accessories:	Power supply
Options:	RK-80 rack mount kit

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 three 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.
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.

The list of Kramer distributors appears on our web site:
www.kramerelectronics.com

We welcome your questions, comments and feedback.

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