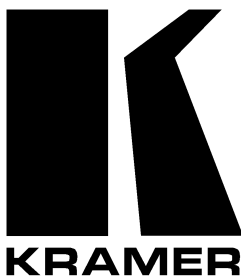


Kramer Electronics, Ltd.



USER MANUAL

Model:

SG-6xl

Multistandard Video Sync Stabilizer

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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 Kramer TOOLS **SG-6xI** *Multistandard Video Sync Stabilizer*, we also offer excellent distribution amplifiers, switch ers and matrices, presentation processors, interfaces, remote controllers and computer -related products. Congratulations on purchasing your Kramer **SG-6xI**. This product is especially useful with high generation tapes carrying time -code¹, close caption or Teletext² information, or other VBI (Vertical Blanking Interval) data, which might interfere with image stability. The package includes the following item s:

- **SG-6xI** *Multistandard Video Sync Stabilizer*
- Power adapter (12V DC Input)³
- 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

The high quality **SG-6xI** *Multistandard Video Sync Stabilizer* is a dual-input, Sync Stabilizer designed to identify and correct missing or erroneous sync

1 A digital code inserted on videotape (but not displayed on the screen) for editing purposes. It identifies every frame of the videotape individually and displays the hours, minutes, seconds and frames

2 A service provided by TV broadcasting stations, which transmits latent data together with the video signal. To retrieve the Teletext information and display it on the screen, the TV receiver is equipped with a Teletext decoder. The data is usually encoded and inserted in the vertical blanking interval. Corrupted Teletext data often causes image instability and picture roll

3 As an option, you can purchase the Kramer VA-50P 6 Port Universal 12-Volt Power Supply, enabling you to supply power to up to 6 Kramer devices that require 12VDC

information in a video signal. In particular, the **SG-6xl**:

- Includes composite video and Y/C (s-Video) inputs and outputs
- Deals with stability problems in all composite video formats
- Replaces or enhances the operation of a time base corrector, in many cases, as it automatically operates in PAL and NTSC

Achieving the best performance means:

- Connecting 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)
- Avoiding interference from neighboring electrical appliances that may adversely influence signal quality and positioning your **SG-6xl** in a location free from moisture and away from excessive sunlight and dust

4 Your Multistandard Video Sync Stabilizer

Figure 1 and Table 1 define the **SG-6xl Multistandard Video Sync Stabilizer**:

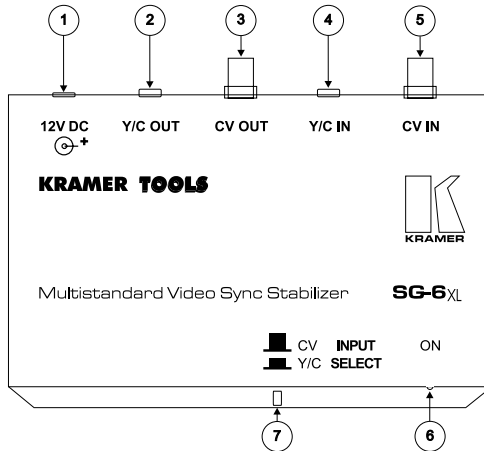


Figure 1: SG-6xl Multistandard Video Sync Stabilizer

Table 1: SG-6xl Multistandard Video Sync Stabilizer Features

#	Feature	Function
1	12V DC	+12V DC connector for powering the unit
2	Y/C OUT 4p Connector	Connects to the Y/C (s-Video) acceptor
3	CV OUT BNC Connector	Connects to the composite video acceptor
4	Y/C IN 4p Connector	Connects to the Y/C (s-Video) source
5	CV IN BNC Connector	Connects to the composite video source
6	ON LED	Illuminates when receiving power
7	INPUT SELECT Switch	Pushing in selects Y/C, releasing selects CV

5 Using the Multistandard Video Sync Stabilizer

Sections 5.1 and 5.2 describe how to connect and operate the **SG-6xl** unit, respectively.

5.1 Connecting the Multistandard Video Sync Stabilizer

To connect the **SG-6xl** unit, do the following:

1. Connect the composite video source to the *CV IN* BNC connector and/or connect the *CV OUT* BNC connector to the composite video acceptor.
2. Connect the Y/C (s-Video) source to the *Y/C IN* 4p connector and/or connect the *Y/C OUT* 4p connector to the Y/C (s-Video) acceptor.
3. Connect the 12V DC power adapter to the power socket and connect the adapter to the mains electricity.

5.2 Operating the Multistandard Video Sync Stabilizer

To operate the **SG-6xl** unit, do one of the following:

- Push in the *INPUT SELECT* switch to select Y/C

The Y/C (s-Video) acceptor receives a sync-stabilized Y/C signal

- Release the *INPUT SELECT* switch to select CV

The composite video acceptor receives a sync-stabilized CV signal

6 Technical Specifications

Table 2: Technical Specifications of the SG-6xl Multistandard Video Sync Stabilizer

Input:	1 composite video, 1Vpp / 75Ω, on a BNC type connector 1 s-Video - 1 Vpp (Y), 0.3Vpp (C), / 75 Ω on a 4 pin connector
Outputs:	1 composite video, 1Vpp / 75Ω, on a BNC type connector 1 s-Video - 1 Vpp (Y), 0.3Vpp (C), / 75 Ω on a 4 pin connector
Video Bandwidth:	26 MHz -3dB
Coupling:	AC
Diff. Gain:	1.18%
Diff. Phase:	0.97 Deg
S/N Ratio:	74.8dB
K-Factor:	<0.05%
Power Source:	12 VDC, 35mA
Dimensions:	12cm x 7.5cm x 2.5cm (4.7" x 2.95" x 0.98"), W, D, H.
Weight:	0.3 kg (approx.), (0.66 lbs.)
Accessories:	Power supply, mounting bracket

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.

Kramer Electronics, Ltd.

3 Am VeOlamo Street. Jerusalem 95463, Israel Tel: (+972-2)-654-4000

Fax: (+972-2)-653-5369, E-mail: kramereel@netvision.net.il

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