

Kramer Electronics, Ltd.



USER MANUAL

Model:

101L

Video Line Amplifier

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1 Introduction

Welcome to Kramer Electronics (since 1981): a world of unique, creative and affordable solutions to the infinite range of problems that confront the video, audio and presentation professional on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better! Our 500-plus different models now appear in 8 Groups¹, which are clearly defined by function.

Congratulations on purchasing your Kramer **101L Video Line Amplifier**. This product is ideal for:

- Professional display systems that require long distance delivery of high quality video
- CCTV, medical, and sports applications

The package includes the following items:

- **101L Video Line Amplifier**
- Power adapter (12V DC Input)²
- This user manual³

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 cables⁴

1 GROUP 1: Distribution Amplifiers; GROUP 2: Video and Audio Switchers, Matrix Switchers and Controllers; GROUP 3: Video, Audio, VGA/XGA Processors; GROUP 4: Interfaces and Sync Processors; GROUP 5: Twisted Pair Interfaces; GROUP 6: Accessories and Rack Adapters; GROUP 7: Scan Converters and Scalers; and GROUP 8: Cables and Connectors

2 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

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

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

3 Overview

The high performance **101L Video Line Amplifier** is used for amplifying the video signal intensity and improving the image sharpness (the picture quality) when a video signal is transmitted over a long cable. In particular, the **101L**:

- Comes with an extra wide bandwidth of 500MHz
- Includes recessed gain and equalization trimmer controls to compensate for signal losses inherent in long cable runs

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 **101L** away from moisture, excessive sunlight and dust

4 Your Video Line Amplifier

Figure 1 and Table 1 define the **101L Video Line Amplifier**:

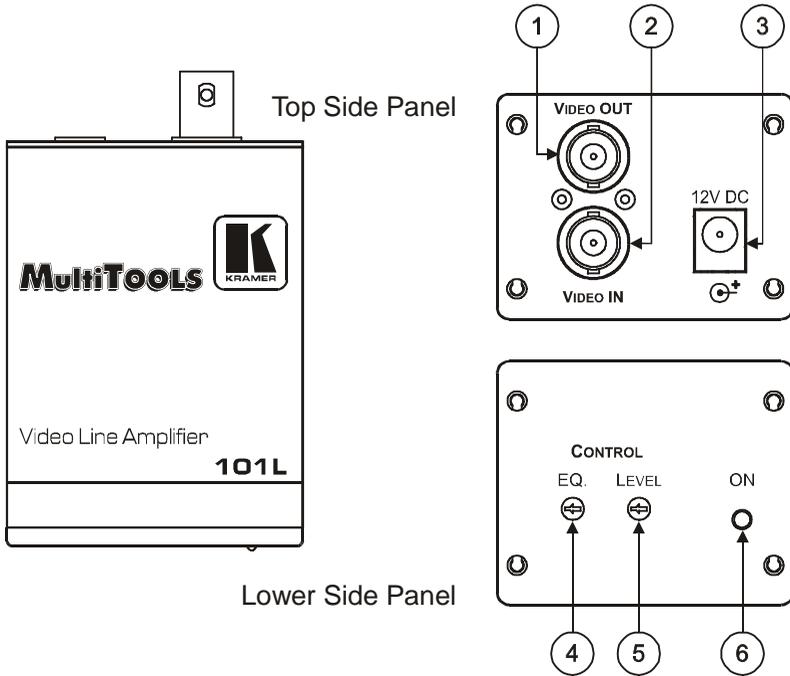


Figure 1: 101L Video Line Amplifier

Table 1: 101L Video Line Amplifier Features

#	Feature	Function
1	VIDEO OUT BNC Connector	Connects to a video acceptor
2	VIDEO IN BNC Connector	Connects to the video source
3	12V DC	+12V DC connector for powering the unit
4	CONTROL	EQ. Trimmer
5		LEVEL Trimmer
6	ON LED	Illuminates when receiving power

¹ Insert a screwdriver into the hole and carefully rotate it, to trim the level

5 Connecting the 101L Video Line Amplifier

To connect the **101L**, as illustrated in the example in Figure 2, do the following:

1. Connect the video source (for example, a surveillance camera) to the VIDEO IN BNC connector¹.
2. Connect the VIDEO OUT BNC connector to a video acceptor (for example, a display).
3. Connect the 12V DC power adapter to the power socket on the **101L**, and connect the adapter to the mains electricity.
The ON LED illuminates.
4. If required, adjust the output signal level (LEVEL) and/or cable compensation equalization level (EQ.).

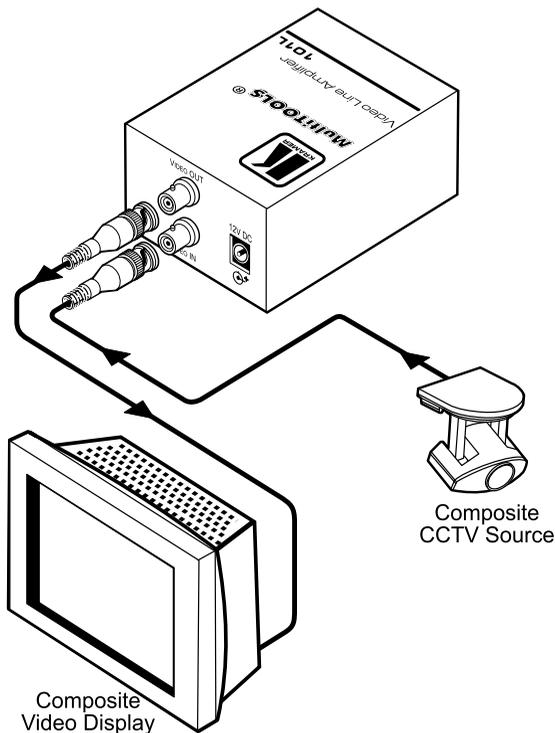


Figure 2: Connecting the 101L Video Line Amplifier

¹ It is recommended that you connect the 101L closer to the source than to the acceptor

6 Technical Specifications

Table 2: Technical Specifications¹ of the 101L Video Line Amplifier

INPUT:	1 composite video on a BNC connector, 1Vpp/75Ω
OUTPUT:	1 composite video on a BNC connector, 1Vpp/75Ω
MAX. OUTPUT LEVEL:	2.5Vpp
BANDWIDTH:	500MHz
DIFF. GAIN:	0.03%
DIFF. PHASE:	0.03 Deg.
S/N RATIO:	75dB
CONTROLS:	Level: -0.8dB to 6.5dB; equalization: 0dB to 8dB @ 5MHz
COUPLING:	DC
POWER SOURCE:	12V, 60mA (DC)
DIMENSIONS:	5.32cm x 4.36cm x 7.25cm (2.09" x 1.72" x 2.85") W, D, H
WEIGHT:	0.15kg. (0.55lbs.) approx.
ACCESSORIES:	Power supply

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.
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 your 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.



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.



Caution

Safety Warning:

Disconnect the unit from the power supply before opening/servicing.



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