

instruction manual  
video mixer model 614gs & 614g

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**COLORADO VIDEO, INC**

**BOULDER, COLORADO**

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## **WARNING**

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications.

It has been tested and found to comply with the limits for a class A computing device pursuant to subpart of J of part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

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# SECTION I

## GENERAL DESCRIPTION

### 1.1 INTRODUCTION

This instruction manual is to be used as a guide to the installation, adjustment, operation, and maintenance of the Colorado Video Model 614 series Video Mixer.

### 1.2 PURPOSE OF EQUIPMENT

The Model 614 series Mixer is a two-channel device that allows sharing a single monitor between two video sources. The unit creates a “double exposure” image and the proportion of each input visible in the output picture, versus the other input, can be adjusted with the single front-panel control

### 1.4 DESCRIPTION OF EQUIPMENT

The 614 or 614G consists of a single printed circuit board and a power supply board assembled in an optionally rack mountable aluminum chassis. The Model 614S or 614GS consists of a single printed circuit board assembled in an ABS case with an external AC adapter for power.

### 1.5 SPECIFICATIONS

Size: 614, 614G:	1 ¾” X 8” X 8”
Size: 614S, 614GS	6.9” X 4.9” X 2.4”
Weight: 614, 614G:	3 lbs.
Weight: 614, 614G:	1.5 lbs.
Mounting:	Free standing
Power: 614, 614G:	117 VAC, 50/60 Hz, 3 VA
Power: 614S:	9 VAC
Power: 614GS	5 VDC
Inputs/Video:	Composite, 1 V p-p. (2) 525 Line NTSC (625 Line PAL Optional)
Outputs:	Composite video, 1 V p-p into 75 ohms.
Controls:	Mix Ratio Power (614, 614G only)
Indicators:	Power
Resolution:	720x480 pixels

## **SECTION II**

### **OPERATING INSTRUCTIONS**

#### **2.1 INTRODUCTION**

This section contains the general operating instructions and procedures for the Model 614 series Video Mixer.

#### **2.2 SYSTEM SETUP**

Connect the video sources to both of the Video In connectors. If one of the inputs is monochrome, connect it to input B. Signals from analog videotape sources should be fed through a time base corrector (TBC) before being connected to the Mixer's input. Models 614 and 614S require genlocked (synchronized) inputs.

Model 614 (only) provides a 75-ohm / Hi-Z Termination switch on its rear panel. In the Hi-Z position, the video inputs can be looped to other device inputs by means of a BNC "T" connector. This switch effects both inputs simultaneously.

Connect Video Out to a terminated monitor or other destination. Connect and turn on the power.

Center the mix control. The mix between the two sources should be approximately 50/50. The control can be used to achieve any ratio of the inputs in the output signal.

# warranty

Colorado Video, Incorporated warrants the equipment of its manufacture to be free of defects in material and/or workmanship under normal use and service. Colorado Video, Incorporated's obligation under this warranty is limited to making good at its laboratories any part or parts thereof, which shall within one (1) year after delivery to the original purchaser be returned to Colorado Video, Incorporated at its laboratories, with transportation charges prepaid, and which Colorado Video, Incorporated's examination shall disclose to its satisfaction to have been defective.

This warranty is expressly in lieu of all other warranties and representation, express or implied, and of all other obligations or liabilities on the part of Colorado Video, Incorporated. In no event shall Colorado Video, Incorporated be liable for damages of any kind connected with the use of its equipment or its failure to function properly.

This warranty shall not apply to any equipment which shall have been repaired or altered outside of Colorado Video, Incorporated's laboratories so as to, in Colorado Video, Incorporated's judgement, affect its use, function, reliability, or which shall have been subject to misuse, alteration, improper installation, negligence, or accident.

Before any equipment is returned to Colorado Video, Incorporated for repairs or adjustments, shipping instructions should be obtained from Colorado Video, Incorporated. Colorado Video, Incorporated assumes no responsibility for unauthorized returns.