

instruction manual  
model 308 video caliper

s/n \_\_\_\_\_

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 308 Video Caliper.

#### **1.2 PURPOSE OF EQUIPMENT**

The Model 308 is intended to allow measurement of objects viewed by a standard closed-circuit television camera. Measurements may be taken in both axes and read on the front panel meter. Readings are calibrated to actual dimensions or “nice” numbers with front panel calibration adjustments. Measurements are made by positioning a rectangle in the display to fit the horizontal and vertical dimensions to be measured.

#### **1.3 DESCRIPTION OF EQUIPMENT**

The Colorado Video Model 308 has circuitry that is all solid state. All operating controls are panel mounted. Setup controls are internal, accessible by removing the top cover. Power and signal connections are located on the rear of the chassis.

## 1.4 SPECIFICATIONS

<b>Input:</b>	Composite Video; 1V p-p, 75 $\Omega$
<b>Outputs:</b>	Composite Video; 1V p-p, 75 $\Omega$
<b>Controls:</b>	Distance: Vertical & Horizontal Position: Vertical & Horizontal Calibration: Vertical & Horizontal Decimal Display: Black/White Read: Vertical & Horizontal
<b>Performance:</b>	Size, H & V, 0 to Full Raster Linearity: $\pm$ 1% of Full Raster
<b>Power Requirements:</b>	6 VAC 50/60 Hz <200 ma
<b>Dimensions:</b>	6.9"W x 9"D x 2.4"H
<b>Weight:</b>	2lbs with power supply (wall-mount transformer)

## **SECTION II**

### **OPERATING INSTRUCTIONS**

#### **2.1 INTRODUCTION**

This section contains the general operating instructions and procedures for the Model 308 Video Caliper.

#### **2.2 INITIAL INSTALLATION**

Connect a source of a composite video to the Video In connector of the 308 and a video monitor to the Video Out. Apply power to the 308.

Set the front panel controls as follows:

Both Distances:       $\frac{1}{4}$  turn from CCW stop

Both Positions:      Midrange

Display:              White

Calibrations:        2 turns from CCW stop

The monitor should be displaying the source video with two horizontal and two vertical lines superimposed. If not, check the source and/or the monitor.

Adjust the camera for an image with normal contrast and proper focus.

## **2.3 CONTROLS**

### **2.3.1 Operating Controls:**

Position: One for each axis. These controls set the measurement rectangle in the image.

Size: One for each axis. These controls set the size of the measurement rectangle to fit the subject being measured.

Calibration: Set the numeric readout scaling to produce “nice” numbers for the actual size of the subject. Could be either actual dimensions or some other scale such as percent of standard.

Read: Select meter to show vertical or horizontal size

Decimal: Sets the decimal points in the display to any desired position (or off).

Display: Selects white or black measurement lines.

### **2.3.2 Setup Controls:**

Horizontal Zero

Vertical Zero

H & V Position tracking

# 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.