

## Specifications, cont'd

### Video output

Number/signal type .....	1 RGBHV, RGBS
Connectors .....	6 BNC female
Nominal level .....	0.7V p-p for RGB
Minimum/maximum levels .....	RGB ..... 0.4V to 1.0V p-p
Impedance .....	75 ohms
Return loss .....	<-30dB @ 5 MHz
DC offset .....	<0.1V with input at 0 offset

### General

Power .....	100VAC to 240VAC, 50/60 Hz, 12 watts, internal, autoswitchable
Temperature/humidity .....	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non-condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non-condensing
Rack mount .....	Yes, with optional rack shelf, part #60-190-01 or #60-604-01
Enclosure type .....	Metal
Enclosure dimensions .....	1.6" H x 8.75" W x 9.4" D (1U high, half rack width) 4.1 cm H x 22.2 cm W x 23.9 cm D (Depth excludes connectors.)
Product weight .....	2.8 lbs (1.3 kg)
Shipping weight .....	5 lbs (2.3 kg)
Vibration .....	ISTA/NSTA 1A in carton (International Safe Transit Association)
Listings .....	UL, CUL
Compliances .....	CE
MTBF .....	30,000 hours
Warranty .....	3 years parts and labor

**NOTE** Specifications are subject to change without notice.

**Extron® Electronics**  
INTERFACING, SWITCHING AND DISTRIBUTION



## User's Guide



### CVC 200

#### Component Video and HDTV to RGB Converter



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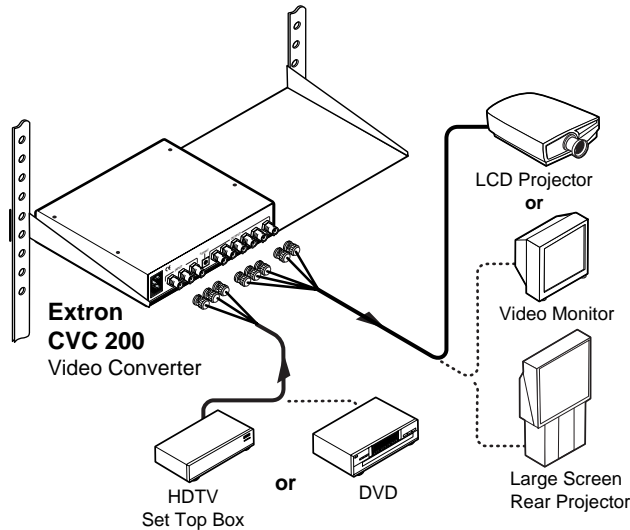
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# Introduction

The CVC 200 Component Video Converter converts all SMPTE standard component video formats to RGBS or RGBHV video. The CVC 200 can also strip sync-on-green (SOG) from RGsB video. The converter outputs converted RGBS or RGBHV video on BNC connectors. Figure 1 shows a typical CVC 200 application.



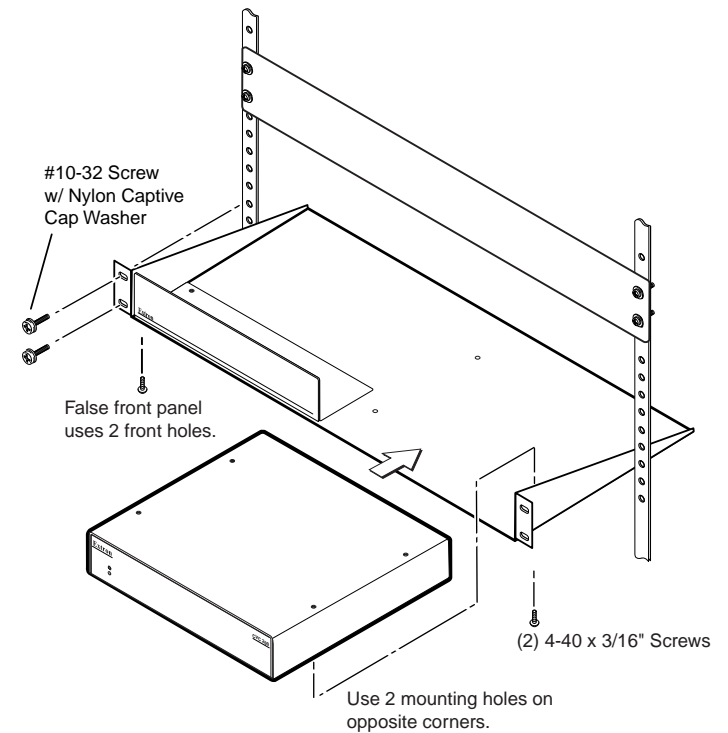
**Figure 1 — Typical CVC 200 application**

The component video input formats include DVD, Betacam® video, and HDTV component video. The RGsB video input can be computer video or NTSC/PAL video.

## Mounting

The CVC 200 can be rack mounted using one side of a 1U Universal Rack Shelf (part #60-190-01) or 1U Basic Rack Shelf (part #60-604-01). Rack mount the CVC 200 as follows:

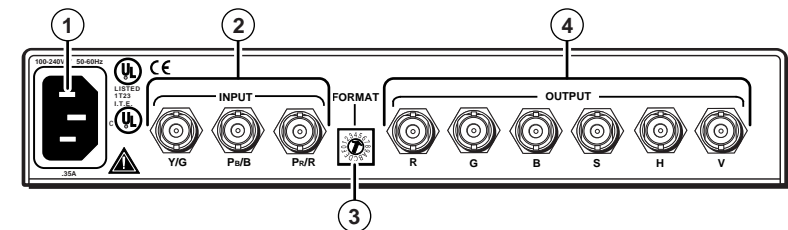
1. Remove the feet from the case, if they were previously installed.
2. Mount the CVC 200 on the rack shelf, using two 4-40 x 3/16" screws in opposite corners (under the shelf) to secure the case to the shelf (figure 2).



**Figure 2 — Rack mounting the CVC 200**

## Cable Connection and Rate Selection

See figure 3 to identify the rear panel connections and Format rotary switch



**Figure 3 — CVC 200 rear panel features**

## Input connections

- Power connector** — Plug a standard IEC power cord into this connector to connect the CVC 200 to a 100 to 240VAC, 50 Hz or 60 Hz power source.
- Input connectors** — Connect a component video input device (HDTV, W-VHS [Y, P<sub>R</sub>, P<sub>B</sub>], SMPTE [Y, R-Y, B-Y]), Betacam® [Y, R-Y, B-Y]) or an RGsB input device to these female BNC connectors. Use high-resolution cable, such as Extron's BNC-4 mini HR, RG59/HR, or RG6/SHR cable. Connect the input device as shown in figure 4.

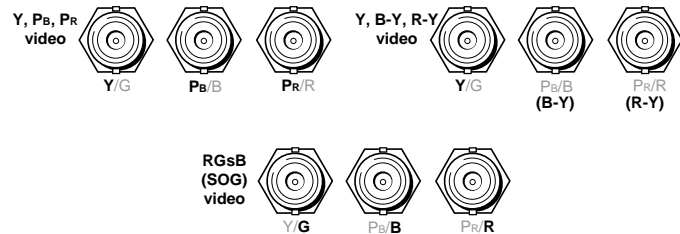


Figure 4 — Input connections

## Format rotary switch

- Format rotary switch** — Use an Extron Tweaker or other small screwdriver to set the Format rotary switch to match the video input format. The table below shows the switch settings and their assigned input video formats.



Position	Input format(s)	Standard or rate
0	Not used	
1	Y, Pb, Pr	NTSC/PAL
2	Y, Pb, Pr	HDTV (480p, 576p, 720p, 1035i, 1080i)
3	Y, Pb, Pr	Betacam
4	Not used	
5	RGsB	NTSC/PAL
6	RGsB	Computer rates
7	Y, Pb, Pr	NTSC/PAL
8	Y, Pb, Pr	HDTV (720p)
9	Y, Pb, Pr	HDTV (1080i)
A	Y, Pb, Pr	HDTV (1080p)
B-F	Not used	

## Output connections

- Output connectors** — Connect an RGBHV or RGBS display to these female BNC connectors. Use high-resolution cable, such as Extron's BNC-4 or BNC-5 mini HR, RG59/HR, or RG6/SHR cable. Connect the display as shown in figure 5.

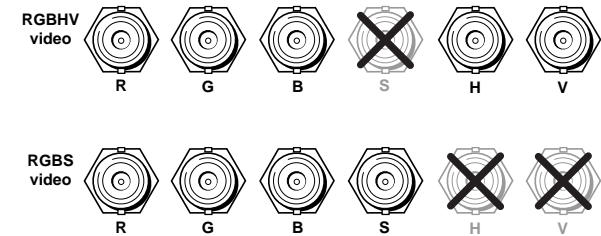


Figure 5 — Output connections

## Specifications

### Video

Gain .....	Unity
Bandwidth .....	55 MHz (-3dB)

### Video input

Number/signal type .....	1 component video (HDTV, W-VHS [Y, P <sub>R</sub> , P <sub>B</sub> ], SMPTE [Y, R-Y, B-Y], and Betacam [Y, R-Y, B-Y]) or RGsB
Connectors .....	3 BNC female
Nominal level .....	1V p-p for Y of component video 0.3V p-p for R-Y and B-Y of component video 0.7V p-p for P <sub>B</sub> , P <sub>R</sub>
Minimum/maximum levels	
Y .....	0.5V to 1.5V p-p with no offset at unity gain
P <sub>B</sub> , P <sub>R</sub> .....	0.4V to 1.0V p-p with no offset at unity gain
Impedance .....	75 ohms
Horizontal frequency .....	15.75 kHz to 45 kHz according to selected mode
Vertical frequency .....	60 Hz
Return loss .....	<-25dB @ 5 MHz
DC offset allowed .....	±2V (max.)