



Hall Research Technologies, Inc.

Dual Purpose Component Video Splitter / Switch 1 in x 2 out –OR– 2 in x 1 out



CP-200 User's Manual

**CUSTOMER
SUPPORT
INFORMATION**

Order **toll-free** in the U.S. **800-959-6439**
FREE technical support, Call **714-641-6607** or fax **714-641-6698**
Mail order: **Hall Research Technologies**, 1163 Warner Ave., Tustin, CA 92780
Web site: www.hallresearch.com • E-mail: info@hallresearch.com

UMA1040 Rev. A

Trademarks Used In this Manual

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Federal Communications Commission Statement

This equipment generates, uses and radiates radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device, pursuant to Part 15 of the FCC rules. Harmful interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference, in which case the user, at his own expense, will be required to take whatever measures are necessary to correct the interference.

European Union Declaration of Conformity

This product has been tested and shown to comply with the requirements of the European EMC directive 89/336/EEC



1.0 General

The Model CP-200 is a versatile dual-purpose unit that can function as either a Video Splitter (1 in x 2 out) or a Switcher (2 in x 1 out). Its mode of operation is set via a convenient front panel switch.

The device is compatible with analog Component Video (YCbCr, or YPbPr) and RGB (sync-on-green) signals. It supports all RGB, TV, and HDTV resolutions up to 1080i.



The CP-200 features 3 BNC connectors per channel and comes with RCA-to-BNC adapters for all connections allowing the use of either 3-BNC or 3-RCA cables.



BNC to RCA Adapters

2.0 Features

- Dual-purpose unit; can work as a splitter or as a switch
- Perfect for high quality video
- Supports all resolutions including 720p and 1080i
- LED Indicators
- Compact and Economical
- Installs in minutes
- Includes BNC-to-RCA adapters to allow use of either cable
- Universal Power Supply

3.0 Installation

1. Your package includes the Splitter/Switch box, a power supply, 9 pieces of RCA-to-BNC adapters, and this Manual. No cables are included with this device, if you need to purchase Component cables for inputs and outputs please contact Hall Research Technologies, Inc.
2. Prior to applying the power supply to the unit, decide if the application calls for a Splitter (1 in x 2 out) or a Switch (2 in x 1 out) and set the mode of operation via the front panel switch. Once power is applied, if the unit is acting as a splitter both LED's on the front panel (labeled A and B) will be on, and when acting as a switch, only one LED (the selected port) will be lit.
3. Plug the input and output cables to the unit
4. Plug the power supply into the unit.
5. Turn on the monitor(s) and the video source.

4.0 Operation

When the CP-200 is configured as a Splitter, both LED's on the front panel (labeled A and B) will be lit and the push-button switches are disabled.

Alternatively, if the unit is acting as a Switch, only one of the LED's on the front panel will be lit. Use the push-buttons on the front panel to select the input channel to be routed to the output. By default, upon power-on reset, channel 1 is selected.

Note that the unit can also be used for Composite Video signals, which only require one connection for each port. In this case, we recommend that you use the Y connector on each port

5.0 Troubleshooting

No Sync or Color Distortion

Most common problem can be attributed to incorrect cable connection to the unit. The Component video and RGB signals have 3 components each. This means that each port has 3 connections and their proper usage is imperative. In general use the following guidelines:

G or Y → green cable

B or Pb → blue cable

R or Pr → red cable

5.1 Contacting Hall Research and Shipping/Packaging

Contact HRT Support at 714-641-6607 or via email or web. Before you do, make a record of the history of the problem. We will be able to provide more efficient and accurate assistance if you have a complete description. If you need to ship your converter for repair, make sure to get a Return Material Authorization (RMA) number first.

6.0 Specifications

Standards Analog Component Video YPbPr or YCbCr and RGB signals with sync-on-green.

Resolutions All Standard TV, HDTV and PC resolutions Including: 640 X 480, 720 X 480, 720 X 576, 800 X 600, 1024 X 768, 1280 X 720, 1280 X 768, 1280 X 1024, 1600 X 1200, 1920 X 1080

Temperature Operating: 32 to 122°F (0 to 50°C);
Storage: -40 to +185°F (-40 to +85°C)

Enclosure Steel

MTBF 90,000 hours (calculated estimate)

Power From utility-power (mains) outlet, through included external power supply. Output Voltage: 6v DC Center-Positive.
Average Power Consumption: 1 Watt

Size (hxwxd) 1.38"H X 8.38"W X 3.00"D

Weight 1.2 lbs