

# Using the Model 985 Audio/Video Distribution Amplifier

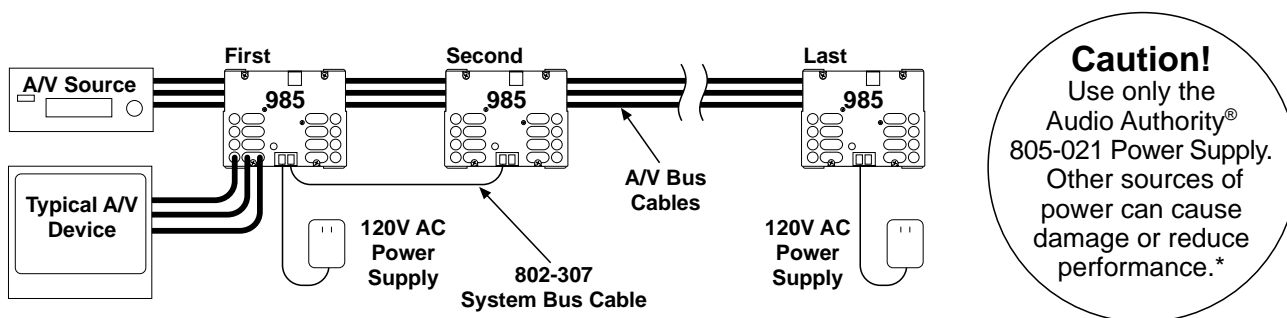
The Model 985 distributes standard 1-volt stereo audio and NTSC video signals with studio-grade performance to 8 television monitors or other audio-video equipment. The automatic input termination feature permits a chain of twelve or more 985s to be driven by one source to create 100 or more exact replicas of the audio/video source signal. The noise-cancelling, balanced audio and video inputs help assure freedom from 60Hz line-related artifacts in the signal, even in large distribution systems.

Model	Applications
985EZ	Audio and A/V products with composite video RCA inputs
985SV	Audio and A/V products with S-video inputs
985BNC	Pro Video with BNC connectors/RCA audio inputs

Although the 985 is designed for use in high-quality A/V systems such as home theater displays, its low cost enables it to be used for audio-only or video-only applications as well.

## Installation

The 985 should be permanently mounted in a location as close as possible to the equipment it feeds and within reach of a source of 120 volts AC. The illustration below shows how 985s can be cascaded in a distribution system of most any size.



\* Up to 3 closely-spaced 985s may be operated from a single 805-021 power pack by connecting their power headers together using 802-307 Access™ System Bus cable.

Connect the Audio/Video source to either set of Bus In/Out jacks using high quality low-capacitance cable such as Audio Authority® Excellerator™ cables. Connect each of the eight outputs to one and only one video monitor or other equipment input. Do not use Y-adapters on any video cables. Unused 985 outputs should be left open.

The 985 will correctly terminate the video source only if nothing is plugged into the unused Bus In/Out jacks on a single 985, or the last 985 in a chain (985EZ and 985SV). To assure excellent performance, be certain this set of jacks is left open in any Model 985 application.

Note: The 985BNC has a manual termination switch. Turn this switch ON with the last 985BNC in a chain or with a single 985BNC. Turn the termination switch OFF with any other 985BNC.

The 985 includes an input grounding feature to control hum. If you observe audio noise such as hum or buzz, or video misbehavior such as bars moving through the picture or color smearing, change the position of the grounding switch.

If several 985s are to be cascaded for 9 to 100+ outputs, connect the vacant set of Bus In/Out jacks of the first 985 to either set of Bus In/Out jacks on the second 985 and so on as illustrated.

Note: Do not plug anything into the open set of Bus In/Out jacks on the last 985 in a chain. Open-ended cables or shorting plugs will cause malfunction.

## Cables

To receive the full benefit of the 985's high performance, select interconnecting cables carefully when designing audio/video displays. Here are some design rules to help you pick the best cable for your application:

1. To avoid signal loss, use cables that are no longer than necessary. Particularly in the case of signal buses, preassembled cables may not be manufactured in the lengths you need. Consider using Audio Authority *Excellerator* cable and connectors to achieve a "custom fit."
2. Avoid cheap interconnects. Use good quality pre-made patch cords with molded plugs. We offer audio, video and combination interconnects made to our specifications, in 2 to 12-foot lengths.
3. To maintain video color accuracy, keep the total length of the S-video signal path from source to monitor under 12 feet. You can exceed this limit somewhat using high-performance cable such as Monster™ Cable.

Contact your Audio Authority® Account Representative for details on our cable products.

If you encounter any problems or have any questions about this product or your application, please call Audio Authority Technical Service at 800-322-8346.



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