



Component Video/Digital Audio Balun (500050, 500051) Component Video/Analog Audio Balun (500052, 500053)

Frequently Asked Questions (FAQ)

1. **Does the 500050 balun family support HDTV?** Yes. It supports 720p and 1080i/p.
2. **Does the 500050 balun family in conjunction with Ethernet hubs and switches?** No. The signal coming out of the 500050 is not compatible with Ethernet.
3. **Does the digital audio port on the 500050/51 support analog audio as well?** No. The digital audio port is designed only for digital audio. However, the Component Video/Analog Audio Balun (500052, 500053) does support analog audio on the fourth twisted pair.
4. **Does the 500050 balun family work in conjunction with third party component video distribution amplifiers?** Yes.
5. **Is there a perceptible difference in picture quality when using component video cable versus the 500050 balun family and Cat5?** As long as the cable length is within the maximum distance specified by MuxLab there is no perceptible difference between component video cable and Cat5.
6. **Does the 500050 family need to be used with shielded twisted pair (STP)?** No. STP cable is not required. Unshielded twisted pair is recommended.
7. **What is the most common issue to arise when using the 500050 balun family?** The most common issue is ground loop. It is important to ensure that the source and receiver are connected to the same AC ground. If there are visible horizontal "hum" bars moving up the screen, this is a symptom of the presence of a ground loop. One way to verify this is to lift the AC ground at the receiver so that there is only one local ground. If the display does not have a 3-prong plug, verify if there are any other inputs to the display and disconnect them (i.e. RF cable). If the image clears up, then there is a ground loop problem. One solution is to install a ground fault circuit interrupter (GFCI) where the AC ground was lifted. Another solution is to have an electrician check the grounding. Another solution is to install ground loop isolators on the video line. For more information, please see the Component Video Balun Family Application Guide in the Support section of the MuxLab website.
8. **What is the most probable cause of ghosting image with the 500050 family?** The most common cause of ghosting is split twisted pairs. Check the color code sequence and make sure that the RJ45 pin configuration follows EIA568A or EIA568B standard. That is, RJ45 pins 1&2, 3&6, 4&5 and 7&8 must each be from the same color pair.
9. **Is the 500050 balun family compatible with the Cat5 outputs on Sony's CAV-CVS12ES video switcher?** No. However, the CAV-CVB1 is compatible. The CAV-CVB1 is an active component video balun that is built by MuxLab for Sony. Please contact Sony for more information at 1-800-222-7669.

For more information, please contact MuxLab Customer Technical Support at 877-689-5228 (North America) or +1 514-905-0588 or at videoease@muxlab.com or visit <http://www.muxlab.com/>.

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