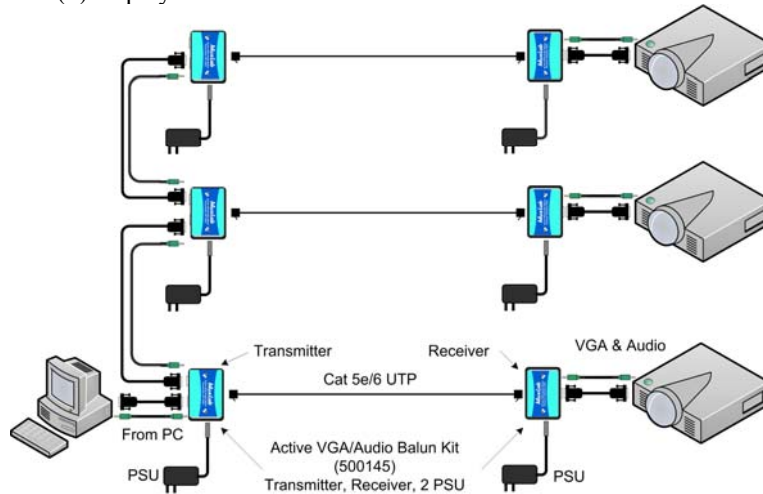




## Active VGA/Audio Balun Kit (500145)

### Frequently Asked Questions (FAQ)

1. **Is the 500145 cascable to support more than one display?** Yes. Up to three (3) 500145 transmitters may be cascaded to support up to three (3) displays.



2. **Is there any latency due to the balun or the DDC handshaking?** The active baluns have negligible latency; typically below 20ns (nano-second). At start-up, there is no delay due to DDC handshaking since DDC handshaking is transmitted separately from the VGA video image.

3. Is there a maximum distance for the VGA jumper cables? Yes. 15 ft (4.5m)

4. **What is DDC Compliance?** DDC stands for Data Display Channel and is a VESA standard that defines communication between a monitor and a host system. Its purpose is to allow information about the monitor to be sent to the PC so that the PC can output the optimum image size and resolution for the monitor. By being DDC Compliant, the Active VG/Audio Balun II Kit allows the DDC signal to pass between the monitor and the PC. Certain software such as medical imaging or digital signage take advantage of this feature to optimize their software according to the type of display that is connected. Audio-video systems integrators will typically be interested in the product for this reason. Most passive/active baluns on the market do not support this feature.

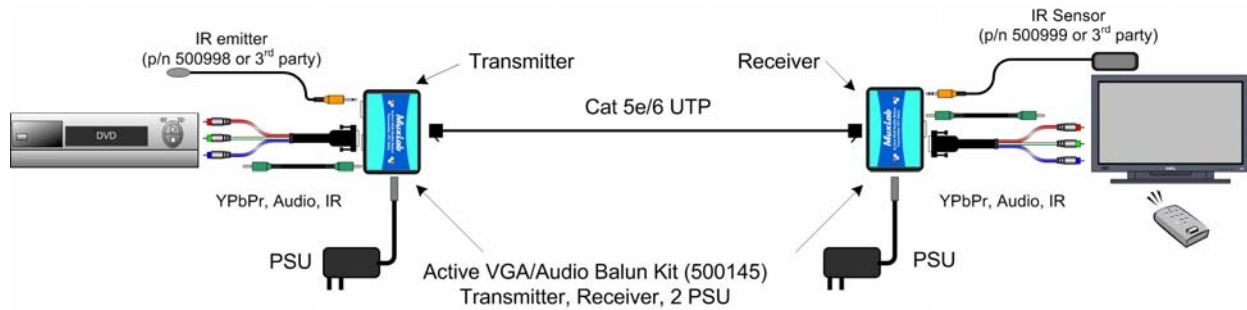
5. **Does the 500145 support full duplex or hal duplex RS232?** The 500145 is full-duplex because even though one (1) pair is used to transmit RS232, the signal is transmitted so fast that from the user standpoint, it is effectively full-duplex. However, the user must specify: BAUD Rate: 9600, Data bits: 8, Stop bits: 1, Parity: None., Flow control: Hardware

6. **Can the RS232 host be at the transitter or receiver end?** Yes. The RS232 host can be on transmitter or receiver end as long as the connectors are compatible. The receiver is a plug and the transmitter is a receptacle.

7. **Does the 500145 have ground loop isolation?** Yes. Up to  $-2\text{VDC}$  to  $+3\text{VDC}$  between the PC and the display grounds.

8. **Is the 500145 compatible with the 500150 and 500160?** No. It is not compatible.

9. **Does the 500145 support component video?** Yes. When used with component-to-VGA cable assemblies on both ends. The green RCA must connect to green (Y) on the AV equipment.



10. **I purchased the 500145 kit. The issue I have is whenever I send a 1920 x 1080 signal to the HDTV the left part of the screen gets cut off and the right part of the screen is a black band. I know the TV and the PC are not the issue because when I plug in directly everything appears correctly. Lower resolutions seem to appear okay. The RJ45 cable is less than 150 ft. Any ideas what would cause this?** Yes. It is related to the horizontal sync. MuxLab has encountered this issue in the lab with a Samsung TV. The issue was corrected in a subsequent revision. If the issue occurs with other TVs, please provide MuxLab with the brand and model in order to try to recreate the issue.

11. **I have a customer who would like to send VGA+Audio over Cat5e/6 cable and also send USB from the projector to control his laptop in order to sequence the Powerpoint slides. If one uses an RS-232 to USB converter, will the 500145 allow the projector to communicate with the laptop?** Yes. It is possible for the projector to communicate with the laptop in this configuration via the 500145. However, in order to avoid problems, the RS-232 speed should be set to 9600bps.

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](mailto:videoease@muxlab.com) or visit <http://www.muxlab.com/>.

Jan 22, 2013 Rev D