



Active CCTV Transmitter Balun (500100, 500101) Frequently Asked Questions (FAQ)

1. **What is the main function of the Active CCTV Transmitter Balun?** The main function is to provide enhanced video and extended distance via twisted pair cable between the CCTV camera and the DVR, multiplexer or video switcher.
2. **Will the Active CCTV Transmitter Balun help in situations where the cabling is marginal?** Yes. The Active CCTV Transmitter Balun will also work in installations where the cabling is marginal or where certain CCTV equipment is more sensitive to the video signal that it receives. For example with some digital video recorders (DVR), the tolerance on the input video signal level is more strict than with analog multiplexers, therefore shorter distances may result when cameras are connected using passive baluns. The Active CCTV Transmitter Balun applies signal gain beyond industry standard to support longer distances.
3. **What is the difference between the 500100 and the 500101?** The 500100 is designed for use with cameras that are supplied by 12VDC power supplies. The 500101 is designed for cameras supplied by 24VAC power.
4. **Does the 500100 support 24VAC as well?** No.
5. **Does the 500101 support 12VDC as well?** Yes. However, the 500101 the operating range of power supply voltage is less than the 500100. The 500100 has greater tolerance in DC voltage drop to support greater distance when remote power is transmitted over Cat5. Therefore the 500101 may be used where the 12VDC power supply is near to the camera.
6. **Does the Active CCTV Transmitter Balun work with the LongReach Active Receiver Balun?** Yes. When used together, the maximum distance is 6,000 ft.
7. **Does the Active CCTV Transmitter Balun work with any 24VAC power supply?** Yes. Providing the power supply is completely isolated from ground.
8. **Is the Active CCTV Transmitter Balun video signal, polarity sensitive?** Yes. Both the LongReach and the passive CCTV Baluns have markings, which indicate signal polarity. The telecom terms “R” for Ring and “T” for Tip are used to denote the signal polarity. Wiring must be straight-through.
9. **Does the Active CCTV Transmitter Balun have ground loop blocking?** Yes. The Active CCTV Transmitter Balun has ground loop blocking.

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