LongReach 16 Active CCTV Receiver Hub
(500120, 500121, 500122, 500123)

Frequently Asked Questions (FAQ)

1. **What is the main function of the LongReach 16 Hub?** The main function is to provide a structured cabling solution for extended distance via copper twisted pair cable between the CCTV camera and the central monitoring equipment (DVR, multiplexer, matrix switch, monitor).

2. **Does the LongReach 16 require any manual adjustments? No.** The LongReach 16 features Auto Image Adjustment (AGC) that automatically adjusts picture sharpness and luminosity without the need for manual DIP switches or rotary potentiometers.

3. **How long does it take for the image to stabilize?** The LongReach 16 AGC circuitry takes about 3 to 5 seconds for the image to stabilize.

4. **Is each port on the LongReach 16 independent from each other?** Yes. Each port has AGC.

5. **Will the LongReach 16 help in situations where the cabling is short or marginal?** Yes. The LongReach 16 will restore signal levels even where cabling is short or marginal. For example the LongReach 16 will restore the video signal to a level that is acceptable to more sensitive DVR equipment.

6. **Is an active transmitter balun required at the camera?** No. The LongReach 16 does not require an active transmitter balun at the camera for distances up to 4,500 ft (1,371m) via Category 5 UTP.

7. **Will the LongReach 16 work with other vendors' passive baluns?** Yes. The LongReach 16 is designed to work with MuxLab's passive CCTV Baluns (500000, 500009, 500022, and 500023). However, the LongReach 16 will also work with third party twisted pair baluns, providing signal polarity is straight-thru (Distance performance may vary).

8. **Will the LongReach 16 work with other cable besides Cat 5?** Yes. The LongReach 16 will work with lower grades of cable such as Cat 3 or Cat 2. It is estimated that for each unit decrease in cable grade, there is a 10% reduction in distance. For example Cat3 may yield 20% less distance than Cat5.

9. **Does the LongReach support PAL and SECAM?** Yes. The LongReach supports PAL and SECAM.

10. **What kind of power supply is needed?** The LongReach requires a *floating* 24VAC power supply, which is included with the product. Alternatively, the product may be used with any 24VAC or 28VAC power supply.

11. **What kind of video signal does the LongReach 16 provide at the output?** The LongReach provides a 1.1V p-p video signal in accordance with industry standard RS-343 (RS-170).

12. **Does the LongReach 16 have voltage surge protection on the video inputs?** No. The LongReach 16 does not have voltage surge protection. If surge protection were required, it would need to be provided separately. However, the LongReach 16 has fuse protection on the power input.

13. **Is the LongReach 16 sensitive to signal polarity?** Yes. Both the LongReach 16 and the passive CCTV Baluns have markings ("R" for Ring and "T" for Tip), to indicate signal polarity. Wiring must be straight-through.

14. **Does the LongReach 16 have ground loop blocking?** Yes. The LongReach 16 has ground loop blocking.

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/.