Transformative Engineering

Omni Balun OB-2 User Manual

Thank you for choosing Transformative Engineering products. We strive to create the highest quality, most useful products for the Systems Integration Industry. We hope you will find this product helps your installations perform better. We also try to make every product fully-featured, so your stocking and specifying requirements are simplified. Please follow these instructions for installation. Should you have any questions or concerns, do not hesitate to contact us directly at 781-7569-6410, or via our website, www.transformativeengineering.com.

I. Description

This Analog Balun provides for conversion of Composite (Baseband) Video, Component Video (Y, Pr, Pb), Digital Audio, and Stereo Analog Audio over (2) Category 5 or CAT6 (UTP) cables. In addition, a single IR (or other use) pass-thru connection is provided. Certain combinations of these are available via (1) UTP Cable. To achieve all conversions, you must use (2) lengths of UTP cable. These Baluns must be used in pairs. They become mirror-images of each other and are interchangeable at either end. They are passive, requiring no power supply.

II. Installation

Simply choose which type of connection you wish to extend over UTP cable and plug into the appropriate connectors of the OB-2. All video-centric connections are made via the "pigtail" RCA-type connectors. All audio-centric connections are made via the panel-mounted RCA-type connectors. The IR/Pass-thru connector is made via the 1/8" mini-jack connector. This IR input is a simple connection directly to 2-pins of one of the RJ45 connectors. It has no transformer conversion as the other connectors. It is DC-passive.

Use of a single UTP cable over the "YUV/IR" RJ45 connector is possible for the following:

EITHER: YUV (Component) Video and IR Pass-Thru **OR**
        YUV (Component) Video and Digital Audio

If you need to transmit Component Video, Digital Audio AND IR, you will need to use **both** UTP connections.

The selection of IR or Digital Audio via a single CAT cable is automatic. Simply plug in the IR connection and the Digital Audio connection becomes assigned to the second RJ45.

By following the labeling on the OB-2, you should understand which RJ45 connectors must be utilized in order to transmit and receive the appropriate signals. For example, to utilize the Component Video feature of the Baluns, you must use the "end" RJ45 connectors along with the Red, Green, and Blue "pigtail" RCA connectors. Similarly, to utilize the Analog Stereo Audio feature, you must use the RJ45 labeled "A-Audio" along with the two "Analog Audio" input/output jacks on the end panel. If you need both Analog Audio AND Component Video, you will need to use both RJ45 connections, and both (2) UTP wires.

III. Warranty

This product is guaranteed against defects in material and workmanship for three (3) years from the date of purchase. Misuse, abuse, or modification of the internal components void any warranty. Any connection of this device to signal levels in excess of industry standards for Line-Level Audio, or standard video levels will also void the warranty. The rating of the IR-Pass Thru connections may not exceed 65 Volts AC or DC, at 3 Amps.

IV. For Technical Assistance, please call:

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