

Application Note

Product: VideoEase Videobalun (NHC# 500003)
Subject: Adapting the VideoEase 2-Way Audio/Video Balun for S-Video
Date: July 3, 2000

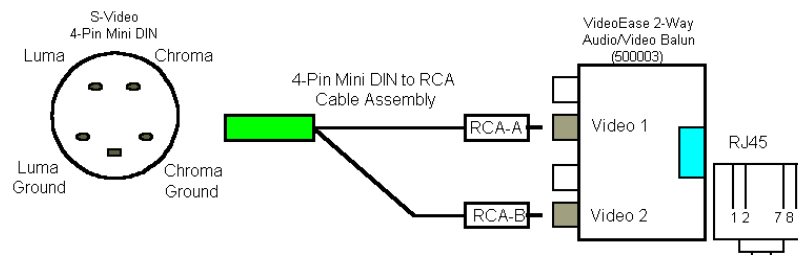
The VideoEase 2-Way Audio-Video Balun (NHC Part # 500003) may be used to allow S-Video to be transmitted via 2-pairs Cat 5 UTP. The 500003 supports two video channels; one for the S-Video luma signal and one for the S-Video chroma signal.

The standard S-Video connector is a 4-pin Mini DIN that supports the luma and chroma video signals via 2-pairs of wires. Both signals are transmitted via a signal and ground wire. To convert these signals to UTP, the 4-pin Mini DIN must be converted to RCA-Male connectors to allow it to be connected to the VideoEase 2-Way Audio/Video Balun (500003). Black Box sells a 6-foot S-Video cable assembly for this purpose. The Black Box part number is CBCC38606.

Videoware, WY (<http://videoware.site.yahoo.net>) also sell a similar adaptor. Tel: (307) 852-2049.
 Part No: MSV-2RCAP Male S-Video to Two Male RCA Plugs, 5-inch lead
 Part No.: FSV-2RCAP Female S-Video to Two Male RCA Plugs, 5-inch lead
 The URL to their S-Video Solution is: <http://videoware.site.yahoo.net/videoware/videobalun.html>

Pin Configuration of Black Box CBCC38606	
4 Pin Mini DIN Male	RCA Plugs
1 - Shield	Shield
3 - Signal	Signal
2 - Shield	Shield
4 - Signal	Signal

The following diagram shows how to adapt the 500003 for use in an S-Video cabling installation.



Pin Configuration - S-Video to RJ45

4-Pin Mini DIN	RCA-Male	RCA-Female	RJ45
Luma	RCA-A	Video 1	Pin 7
Luma-Gnd	RCA-A-Gnd	Video 1-Gnd	Pin 8
Chroma	RCA-B	Video 2	Pin 1
Chroma-Gnd	RCA-B-Gnd	Video 2-Gnd	Pin 2

For more information, please contact NHC Customer Technical Support at 1-800-361-1965.