SAFETY INFORMATION

1. This device is to be installed and/or used in accordance with appropriate electrical codes and regulations.

2. Do not install this product in an electrical junction box with 110V or higher unless an approved barrier separates the high- and low-voltage sections.

3. To avoid fire, shock or death, do not connect power to this product until it is fully installed.

4. When in doubt, turn off the power at the circuit breaker or fuse and test that the power is turned off.

Safety Instructions:

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions - The safety and operating instructions should be retained for future reference.

3. Heed Warnings - All warnings on the appliance in the operating instructions should be adhered to.

4. Follow Instructions - All operating and user instructions should be followed.

5. Water and Moisture - The appliance should not be used near water: for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

6. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.

7. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

8. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

9. Grounding or Polarization - Precaution should be taken so that the grounding or polarization means of an appliance is not defeated. 10.Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paving particular attention to cords at plugs. receptacles, and the point where they exit from the appliance.

11. Liquid Entry - Care should be taken so that liquids are not spilled into the enclosure through the openings.

12.Damage Requiring Service - The appliance should be serviced by qualified service personnel when:

A. The power supply cord or the plug has been damaged; or

B. Liquid has been spilled into the appliance; or

C. The appliance has been exposed to rain; or

D. The appliance does not appear to operate normally; or

E. The appliance has been dropped or the enclosure is damaged.

13.Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel. Precautions:

1. Power – WARNING: BEFORE TURNING ON THE POWER FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. Models are designed for use with AC120V, 60Hz

2. Do Not Touch The Unit With Wet Hands - Do not handle the unit or power cord when your hands are wet or damp. If water or any other liquid enters the cabinet, take the unit to a qualified service person for inspection.

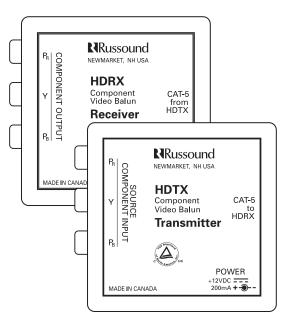
LIMITED WARRANTY

The Russound HDTX and HDRX baluns are fully guaranteed for two (2) years from the date of purchase against all defects in materials and workmanship. For this warranty to apply, the unit must be installed and used according to its written instructions. During this period, Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. Accidental damage and shipping damage are not considered defects under the terms of this warranty. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. If service is necessary, it must be performed by Russound. Damage to or destruction of components due to excessive power voids the warranty. In these cases, the repair will be made at the owner's expense. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of the service required. Be sure to pack in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

Before returning a unit for repair, call Russound at (603) 659-5170 for a Return Authorization number. Write the RA number on the shipping label and ship to: Russound, ATTN: Service, 5 Forbes Road, Newmarket NH 03857

Russound sells product only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

RRussound



VBHD Kit Component Video Balun Installation Manual

INTRODUCTION

The VBHD Component Video Balun Kit contains a pair of active circuitry (powered) baluns for sending component video over a single CAT-5 cable. This kit includes a transmitter and receiver and would be used to distribute video from a central source to a remotely located video device.

The benefits of using this kit are that it uses low-costs CAT-5 cable, plus it eliminates ground loops, which may occur when remotely locating sources from displays. Ground loops are seen as lateral "hum" bars scrolling on the display and an audible hum in the audio.

KIT CONTENTS

(1) HDTX transmitter module (1) HDRX receiver module



5 Forbes Rd. Newmarket, NH 03857 Tel 603.659.5170 • Fax 603.659.5388 e-mail: tech@russound.com

(1) 846C 12VDC 200mA power supply

OVERVIEW

Component video gives a higher quality picture than composite video or S-video. Component video terminations and cables have three separate sections: yellow, red, and blue. A component video signal has three parts: luminance, hue and saturation. The video signal components are separated into different terminations or cables. The luminance information is combined with the sync data, so that fine detail and display data are carried along a single input or cable (Y), which is the GREEN input. The chrominance is separated into its own color components. The BLUE input is labeled P_B. The RED input is labeled P_R.

INSTALLATION

You will need two sets of component video RCA cables and the appropriate length of CAT-5 cable. Also recommended are RJ45 modular wall plates mounted near the source and near the remotely located equipment.

The modules should be adhered to a clean, flat surface close to the connected device. Use hook and loop fastener or double-sided foam tape.

Turn off the power and disconnect the video equipment. Determine the length of CAT-5 cable (up to 500 feet) needed to run between the source equipment and the remotely located equipment. Determine where the 846C power supply will be plugged in (will be connected to the HDTX unit). The unit uses very little power and can be left powered on (green LED indicates power).

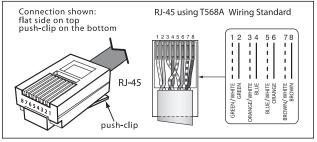
At the TRANSMIT end:

The HDTX is located at the source end (DVD, cable box, etc.) of the system. Use a triple-wire component RCA video cable and connect the appropriate video outputs of the source to the HDTX unit's Blue (P_B), Green (Y), and Red (P_R) inputs.

For the CAT-5 connection, use a CAT-5 patch cable with RJ45 connections at each end, using the T568A wire configuration. Run the patch cable from the HDTX to the wall plate.

Run CAT-5 cable from the back of the wall plate to the back of the wall plate located near the remote display.

RJ-45 CAT-5 Wiring Scheme



At the RECEIVE end:

The HDRX is locate tem. Use a triple-w connect the approx HDRX unit's Blue (P

For the CAT-5 conn **RJ45** connections configuration. Run wall plate.

Once all connectio to the system and

IDRX is located at the remote end (TV) of the sys- Use a triple-wire component RCA video cable and	Dimensions:	(Transmitter and Receiver) 2.6" W x 1.1" H x 1.1" D
ect the appropriate video inputs of the source to the 'unit's Blue (P_B), Green (Y), and Red (P_R) outputs.	Transmitter Inputs/ Receiver Outputs:	3 RCA (Red-P $_{R}$, Green-Y, Blue-P $_{B}$
ne CAT-5 connection, use a CAT-5 patch cable with connections at each end, using the T568A wire	Transmitter Output/ Receiver Input:	1 RJ45 8-position modular connector T568A format
guration. Run the patch cable from the HDRX to the late.	Cable:	CAT-5
all connections are made, power can be restored e system and its components.	Cable distance: Video format:	500 ft point to point Component video up to 1080i
	Video bandwidth:	Transmitter and Receiver 450MHz @ -3db
	Video signal:	Transmitter and Receiver 0.5V to 2V component
	Operating voltage:	12VDC 200mA max
	Child Amortania	Conforms to UL 6500 Certified to CAN/CSA
HDTX connections	HDRX connections	
RJ-45 CAT-5 patch cable RJ45 wall plate	UTP - Up to 1000' (CAT-5)	CAT-5 patch cable
RCA component video cable B46C 12VDC power supply Satellite receiver	RCA componen	KIRUSSOUND INSWARTS NUGAL HDRX Component View Buble Component View Buble HDRX Component Note Bable HDRX Receiver RJ-45
	Television video cable	
HDTX O O D D D D D D D D D D D D D	CAT-5 RJ45	

SPECIFICATIONS

Diagram showing a typical installation with HDTX and HDRX baluns