

## Component Balun Specifications:

### Models and Dimensions

UR-P3 (in-wall Decora™ version): 4.1"h x 1.4" w x 2.0"d.

UR-V3 (black enclosure): 1.1"h x 2.6"w x 2.8"d (28 x 66 x 71 mm).

US-P3 (in-wall Decora™ version): 4.1"h x 1.4"w x 2.0"d.

US-V3 (black enclosure): 1.1"h x 2.6"w x 2.8"d (28 x 66 x 71 mm).

US3-Hub (black stackable enclosure).

**Video Bandwidth:** 450 MHz +/- 3 dB.

**Video Input:** Receive unit: 0.5 V to 2V.

**Video Output:** Send unit: 0.5 V to 2 V.

### Input and Outputs:

Send Unit: three RCA input jacks, one RJ-45 out-jack, one-DC power input.

Receive Unit: three RCA output jacks, one RJ-45 out-jack.

US3-Hub: Three RCA input jacks, six RJ-45 output jacks, one DC power input, one input and one output link RJ45 jack.

### Power

Send Unit: 12 VDC (one PS1202 power supply will power one send and one receive and is connected to the send unit only.)

Receive Unit: 12 VDC (from send or hub).

US3-Hub: 15 VDC (one PS1506, included, will power the hub and up to six receives).

## Warranty

Knoll Systems warrants its products sold in the USA and Canada by authorized Knoll dealers to be free of defects in materials and workmanship. This warranty extends for three full years from the date of purchase by the original consumer. Any products returned to Knoll Systems and found to be defective by Knoll Systems within the warranty period will be repaired or replaced at Knoll Systems option, at no charge. Knoll Systems will not be responsible for the actual cost of installation or removal of the product, nor for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have additional legal rights that vary from state to state.

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**UR-P3 Component Video Receiver**

**UR-V3 Component Video Receiver**

**US-P3 Component Video Sender**

**US-V3 Component Video Sender**



## Installation Instructions v1.1

**Warning:** To be installed and/or used in accordance with appropriate electrical codes and regulations. If you are not sure about any part of these instructions, consult a qualified electrician.

**Caution:** 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.

**Introduction:** Thank you for your purchase of a Knoll active balun system. This system is specifically designed to send a three wire Pb, Pr, Y component or RGB signal safely down a cat 5 or cat 5e wire up to 500 feet without encountering image problems. Balun is an acronym for:

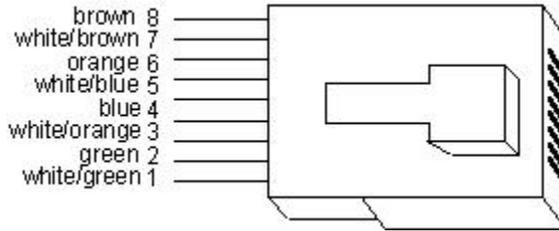
**BALance – UNbalance**

The send module takes a conventional component signal and balances it (signal is not tied to a ground reference) then sends it via cat 5 to the receive module (with power from the send module). The receive module unbalances the component signal back to its former state. This process does not allow any stray magnetism of any sort to contaminate the signal while it is being transported.

### Features:

- Tabletop box design or Decora™ style available.
- Will safely send 480i/p, 720p and 1080i/p signals.
- PS1202 power supply required on send side only.
- 6 output hub available
- Mix and match decora style and tabletop style.

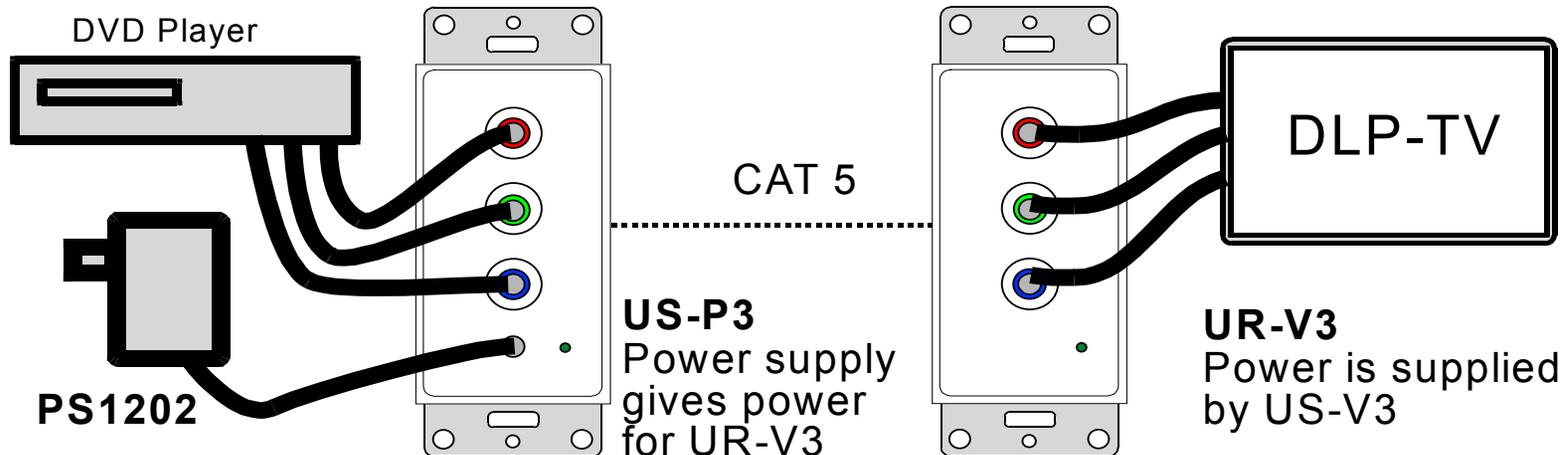
**Wiring:** A send module (US-P3 or US-V3) needs to be connected to a Knoll receive module (UR-P3 or UR-V3) to work correctly. The send and receive module are connected using a single cat 5 wire using all 8 conductors. Connection is made with the RJ45 connector (RJ45 plug not supplied). Always use standard cat 5 wiring practices. Using the correct wire pairs and polarity is **VERY** important.



**Connection to stereo video source equipment:** Connect the three US-P3 or US-V3 gold RCA jacks with a good quality gold connector triple wire component RCA jumper cable to the appropriate **three component output** jacks on your DVD, dish receiver, D-VHS, VCR, stereo or other equipment. If there is a switched outlet on your output equipment, you may want to plug the PS1202 power supply to the switched outlet.

**Make sure a good quality RJ45 8-8 crimper is used** to connect the RJ45 connector to the cat 5 wire. Poor crimping and mismatched wires are the biggest cause of installation problems.

**Power requirements:** The Knoll balun system requires a single PS1202 power supply connected to the send unit only. In certain cases with very long leads a higher voltage PS1506 15 VDC power supply may be required if wavy or image video lines are evident.



**Connection to the Projector, TV or other components:** Connect the three US-P3 or US-V3 gold RCA jacks with a good quality gold connector triple wire component RCA jumper cable to the appropriate **three component input** jacks on your projector, plasma, TV or other component. Make sure the correct projector, plasma, TV or other component input is selected.

**Multiple Connection(s):** If the component signal needs to be sent to more than one receiver, this can easily be accomplished by daisy chaining the Knoll component senders. The US-P3 and/or US-V3 sender RCA inputs need to have their three RCA inputs Y-corded together. Each sender is connected via one cat 5 wire to one UR-P3 or UR-V3 receiver (as above). Three resistors in all but one of the senders need to be snipped. For example, if four senders are being Y-corded together, three (not all four) of the US-P3 and/or US-V3 senders need to be opened up and have the three 75 ohm through hole resistors beside the RCA jacks snipped off. Receive units do not have any alterations. Each send unit requires a PS1202 power supply.

To loop from a local source going to a local component (such as a TV) using Y-cords, the three 75 ohm resistors in the send unit MAY need to be snipped.

The Knoll send receive system does not have any user adjustments and is completely automatic. If need be, please call our tech line for details at 1 800 566 5579.

This product may contain lead that some states have determined are harmful. Wash you hands after touching this product.

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