

## Data Sheet

# VBC Composite A/V Balun Kit

CTX Transmitter, CRX Receiver



The VBC Composite Audio-Video Balun Kit provides a pair of active baluns for sending composite video and line-level stereo audio over a single CAT-5 cable. This allows signals to travel longer distances without degradation or interference than with traditional types of cable.

The kit includes a CTX transmitter, a CRX receiver, and an 846C power adapter, which connects to either the transmitter or receiver for flexible placement. Active circuitry in the transmitter automatically adjusts the output level to compensate for distance in the CAT-5 cable, thus eliminating signal loss up to 1000 feet (305 m).

By using balanced signals, the transmitter and receiver avoid direct electrical connections between the source and destination devices. This prevents

ground loops, which can cause audio noise and video hum bars. The balanced signals also resist interference, resulting in higher fidelity audio and cleaner video transmission.

The kit can be used to connect a remote source to a multiroom audio-video controller or a video display device. It can also be used to send the output of a video distribution device to a distant video display or A/V receiver.

An input buffer switch on the CTX transmitter allows a source video signal to be split between the transmitter and a local TV or A/V receiver without affecting picture quality.

The transmitter and receiver are compact modules for convenient installation. They can be mounted to any flat surface.

# Specifications

## CTX Transmitter

Input connectors: (1) composite video RCA jack  
(2) left and right audio RCA jacks

Output connector: 8-pole modular RJ-45 jack, T568A

Audio input impedance: 20 kilohms

Audio input level: 3 V maximum peak to peak

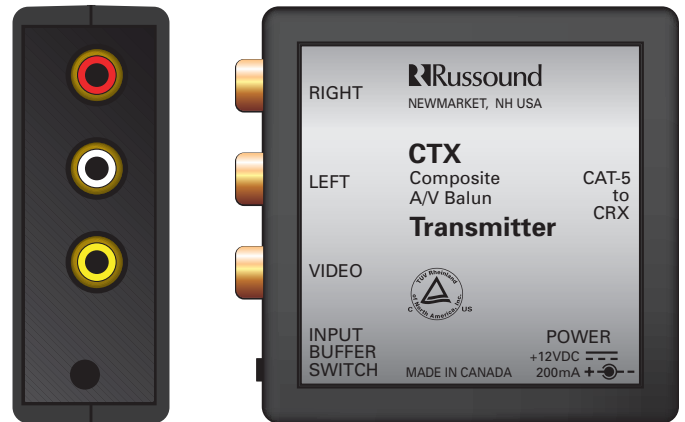
Weight: 2.6 oz (73 g)

## CRX Receiver

Input connector: 8-pole modular RJ-45 jack, T568A

Output connectors: (1) composite video RCA jack  
(2) left and right audio RCA jacks

Weight: 2.4 oz (69 g)



## VBC Kit

Cable type: CAT-5

Maximum cable length: 1000 ft (305 m)

Video format: Composite

Video bandwidth: 100 MHz +0/-3 dB

Video signal level: 0.5 V to 2 V

Audio format: 2-channel analog

Audio and video gain: Unity

Power requirement: 12 VDC 200 mA max  
(adapter included)

Module dimensions: 2.75" W x 2.64" H x 1.1" D  
(7.0 x 6.7 x 2.8 cm)



## Accessories

**AWCAT5** 4-pair, 24-gauge solid copper CAT-5e cable, 1000'

**MOD-RJ45CAT5** RJ-45 modular jack for wall plate, box of 6

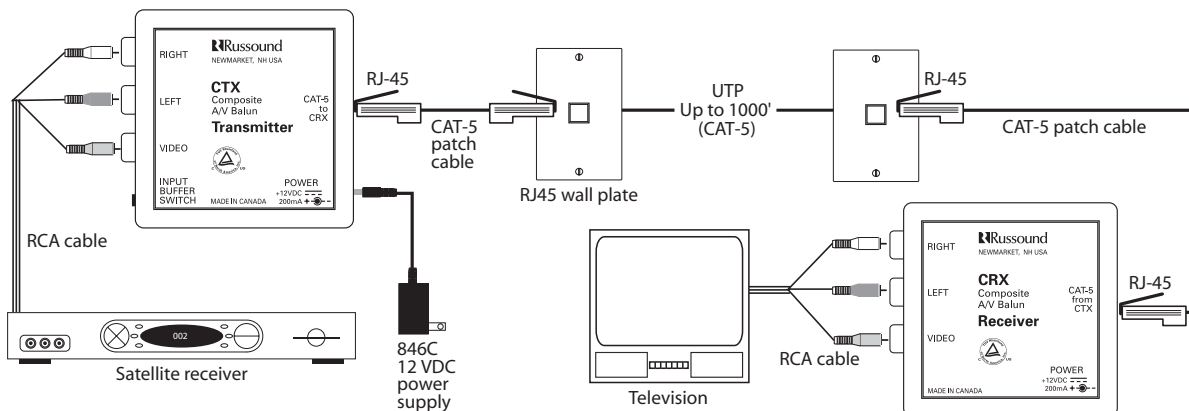
**PM-MOD1D** Decora® wall plate for modular jack, box of 6

**PM-MOD1S** Standard wall plate for modular jack, box of 6



Conforms to  
UL 6500  
Certified to  
CAN/CSA

## Typical Application



Since 1967, innovation, quality and reliability have been the core of the Russound product tradition. Today, Russound offers everything for enjoying multiroom audio-video in your home. All distributed audio-video solutions are built to high standards and designed with the unique consideration of making products that are a pleasure to live with and enjoy.

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