

Overview

The RGB Video Balun (500002) allows one full component video (YPbPr or RGB) channel to be transmitted via cost-effective unshielded twisted pair (UTP) cable in the commercial AV environment.

Used in pairs, the RGB Video Balun supports 480i/p, 720p and 1080i/p resolution for professional hi-definition (HDTV) video applications. The product allows three (3) BNC coaxial cables to be replaced by one (1) Cat5e/6 twisted pair cable allowing standard structured cabling techniques to be used for more efficient cabling. The product comes with three (3) 10" BNC coax jumper cables for ease of installation.

Applications

Production studios, command centres, control rooms, multimedia rooms, communications centres, pro camcorders, AV podiums, classroom video, boardroom systems.

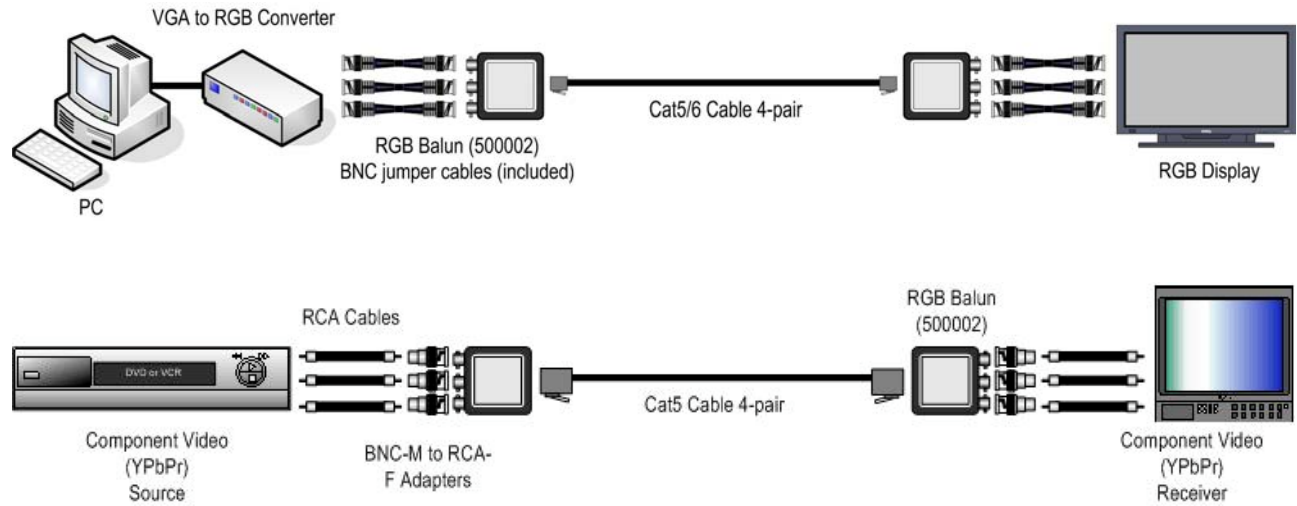


Features

- Supports 480i/p, 720p, 1080i/p
- Supports 480i/p up to 1,000 ft (305m) via Cat5e/6
- Supports 720p/1080i/p up to 500 ft (152m) via Cat5e/6
- Includes three (3) BNC jumper cables
- Modular RJ45 connector

Specifications	
Environment	Component Video (YPbPr), RGB Video (sync on green). 480i/p, 720p, 1080i/p.
Devices	DVD players, satellite receivers, plasma displays, projectors, monitors, amplifiers, switchers, home theatre and other equipment supporting HDTV component video.
Transmission	Transparent to the user.
Bandwidth	Video: 60 MHz, 3 dB roll off.
Maximum Input	1.1Vp-p
Insertion Loss	.1 dB for 0.1 MHz. Gradually increasing to 2.5 dB over the frequency range
Return Loss	Greater than 15 dB over the frequency range
Common Mode Rejection	-55 dB @ 0.1MHz. Gradually increasing to -20 dB @60 MHz
Maximum Distance	480i/p: 1,000 ft (305m). 720p and 1080i: 500 ft (152m).
Cable – Cat5/6 UTP/STP	24 gauge or lower solid copper twisted pair wire. Impedance: 100 ohms at 1 MHz. Maximum capacitance: 20 pf/foot. Attenuation: 6.6 dB/1000 ft at 1 MHz
Cable – BNC	Impedance: 75 ohms at 1 MHz
Connectors	Three (3) BNC-F connectors: Green (Y), Blue (Pb) , Red (Pr) RJ45S for twisted pair
Pin Configuration <i>Reverse polarity sensitive</i>	Red (Pr): Pins 7[R] & 8[T] Green (Y): Pins 3[R] & 6[T] Blue (Pb): Pins 1[R] & 2[T]
Accessories Included	Three (3) 10" (25.4 cm) coax jumper cables included. BNC-male to BNC-male.
Temperature	Operating: 0° to 55°C. Storage:-20° to 85°C. Humidity: up to 95%
Enclosure	ABS fire retardant plastic
Dimensions	2.40" x 2.25" x 1.0" (6.1 x 5.7 x 2.54 cm)
Weight	7.5 oz (212 gms)
Regulatory	FCC, CE.
Warranty	Lifetime
Order Information	500002 RGB Video Balun, Rev B

Typical Application



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