

**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.

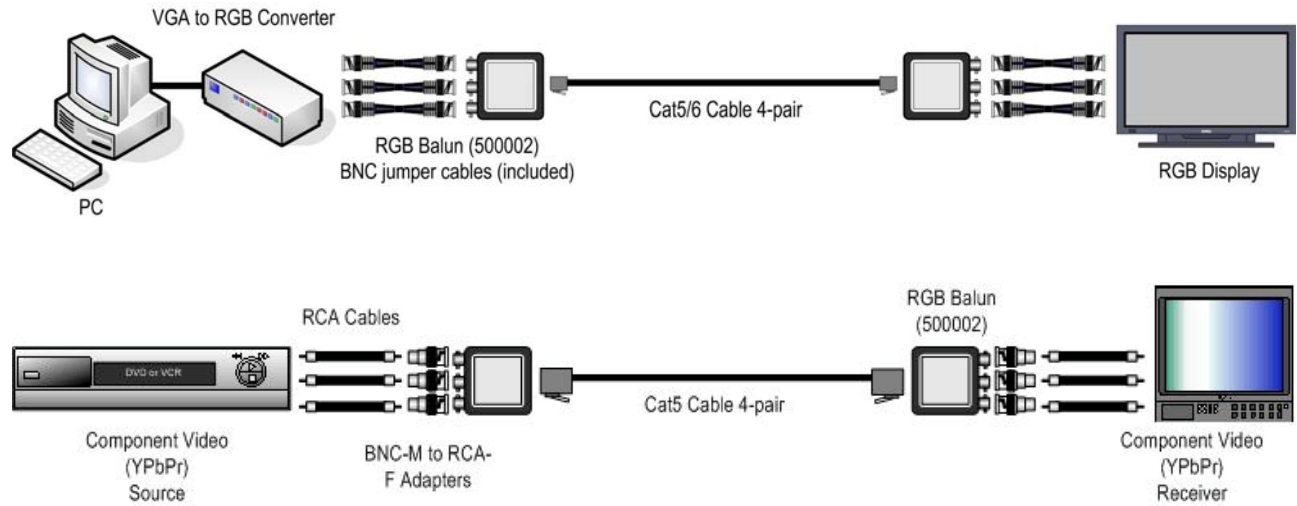


**Features**

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

## Typical Application



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