



Single Channel Active Video Balun Receiver

Model: VBAU100R With Additional BNC Loop Out

VBAU-12SLOT – 12 Channel Slots for Receivers



The VBAU100R video receiver is a one channel active device that allows reception of real-time monochrome (B/W) or color video via Unshielded Twisted Pair (UTP) cable. The unit receives one channel of video from transmitters with screw type terminals available for connections and provides one pair of BNC video output.

The unit is compatible with active transmitter (e.g. VBAU100T) and passive transceivers (e.g. VBU100T, VBU400T) with transmission distance up to 4000ft / 1200m and 2000ft / 600m respectively. Each switch can be independently adjusted for the different transmission distances and image quality based upon the type and quality of the cable being used.

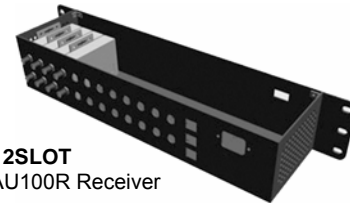
Features:

- Transmit a full motion color video signal up to 4000ft / 1200m and a B/W video signal up to 8000ft / 2400m.
- Supports all bandbase signals including PAL, NTSC, SECAM.
- Signal Transmission via UTP cable.
- Transmission Signal 1Vpp Composite Video.
- Built-in transient protection and ground lifting, which eliminates damaging voltage spike problems.
- Built-in Filter: 0~6MHz
- Video receiving connectors with screw type terminals.
- Two BNC Video Outputs
- Red LED: Power on/off
- Yellow LED: Signal
- Power supplied 12V DC

Components are Made In USA for this product:

Name of Component	Manufacturer
DCDC Power	National Semiconductor
Video Signal Disposal	Intersil

R&D Designed in Taiwan
Assembled in China



VBAU-12SLOT
For VBAU100R Receiver

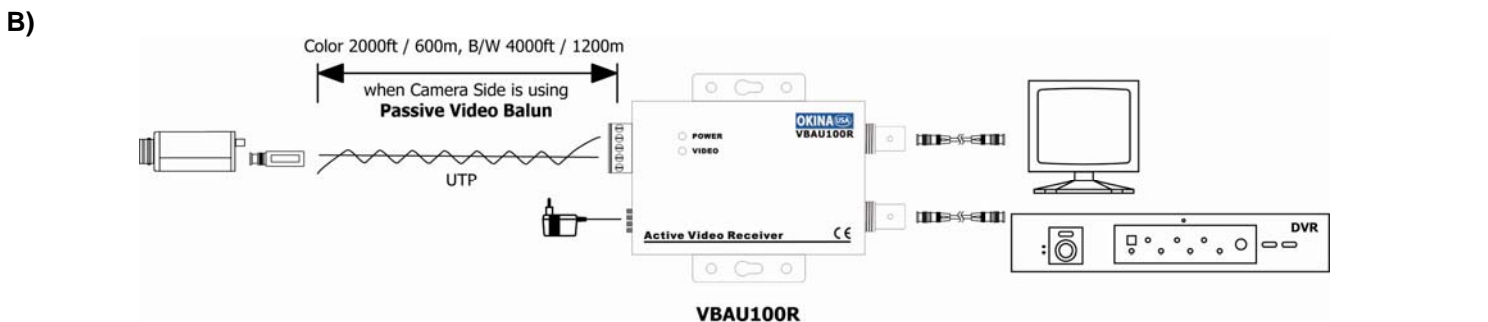
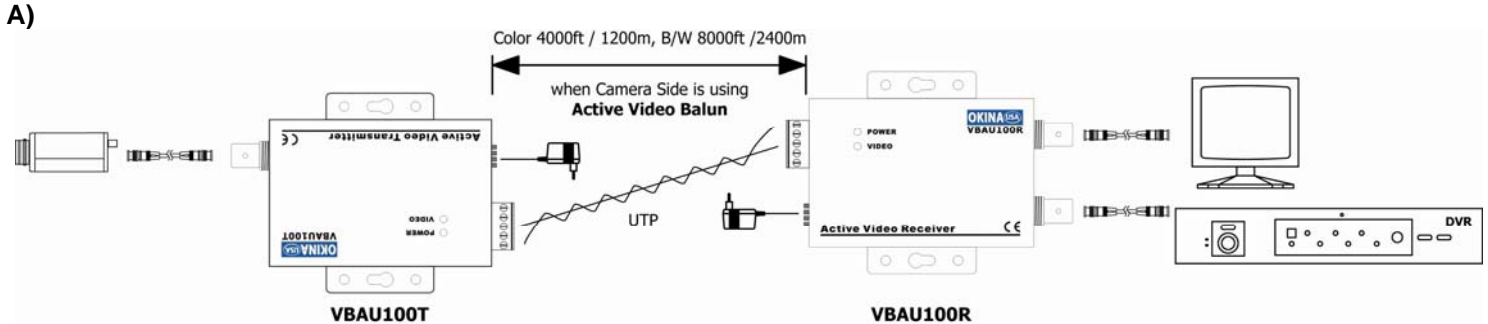


Switch Chart: Each switch can be independently adjusted for the different transmission distances and image quality based upon the type and quality of the cable being used.

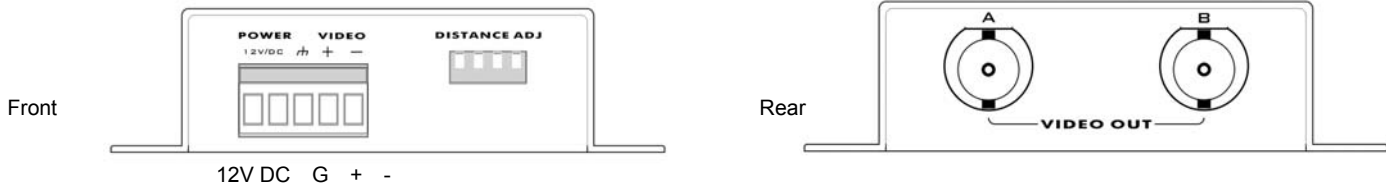
A) For Passive Balun					
ADJ	0-50M	50-250M	250-400M	400-500M	500-700M
SWITCH	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■

B) For Active Balun					
ADJ	0-600M	150-750M	300-900M	450-1050M	600-1200M
SWITCH	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■

Application Diagram:



Panel View:



Troubleshooting:

All transmission distances mentioned above are without connecting image processors (e.g. Quad, Multiplexer, or DVR). The transmission range would be reduced 300~600ft / 100~200m upon different camera, cable, DVR ... etc.

These products are designed for long range transmission, utilizing the built-in video amplifier function. If your transmission range is under 300ft / 100m, setting the video gain function too high will result in snowy, wavy, or overly bright images. It is recommended that this product be used for long transmission distances over 300ft / 100m. For shorter distances use an alternate passive video transceiver such as the VB100 series.

Both of the active transmitter and receiver have "4 position distance range switch" for different range transmission. Please adjust to appropriate range upon your application to avoid any weak or bad image.

Specification:

Model Number		VBAU100R
Power Properties	Adaptive Voltage Arrange	12V DC
	Power Consumption	<100mw
Video Transmitting Properties	Supporting Video Mode	All Baseband Signals including PAL, NTSC, SECAM
	Signal Band	250MHz (-3dB)
	Balance Band	0~6MHz
	Maximum Transmission Distance	Color 4000ft / 1200m, B/W 8000ft / 2400m (working with VBAU100T) Transmitting UTP Cable
	Interference Rejection	>75dB
Connection Properties	Video Output Connectors	2 Female BNC, Resistance 75 Ohms
	Connector for UTP Transmission	Screw Terminal Set, Resistance 50 Ohms
Surge Protections	Video Output Protection	2KV (common mode), 10/700µs IEC6100-4 2/1955 (GB/T 1726, 5-1999)
	Video Input Protection	2KV (different mode), 4KV (common mode) IEC6100-4 2/1955 (GB/T 1726, 5-1999)
	Video Input Protection for Over Current	100mA
Video Adjustments	Adjusting Switches	4 Blue Adjusting Switches per Channel
	Adjusting Categories	Passive Balun: 0~50m, 50~250m, 250~400m, 400~500m, 500~700m Active Balun: 0~600m, 150~750m, 300~900m, 450~1050m, 600~1200m
Indicators	Power LED	Red
	Signal LED	Yellow
Stability	MTBF	>30,000 hours
Physical Properties	Dimensions (L x W x H)	4.53" x 3.27" x 0.87" / 115 x 83 x 22 mm
	Housing Material	Metal
	Color	Black
	Weight	0.42lbs / 190g
Environment	Operating Temperature	32°F ~ 122°F / 0°C ~ 50°C
	Relative Humidity	0~95%
	Storage Temperature	-40F ~ 302°F / -40°C~150°C

*Specifications are subject to change without notice.

FCC CE ROHS

R&D Designed in Taiwan

Components are Made in USA: DCDC Power (National Semiconductor), Video Signal Disposal (Intersil)

Assembled in China

Caution:

- Do not connect this device to any power source other than what is supplied.
- Do not handle the unit with wet hands.
- The unit is not waterproof and should not be used outdoors.

Cabling Systems & Solutions

UTP = Unshielded Twisted Pair