

OVERVIEW

The EZ-VU BL3265 video balun allows the replacement of coaxial cable with unshielded twisted pair (UTP) cable to transmit baseband video up to 2000 feet*, with no additional power source.

It supports NTSC, PAL and SECAM formats and is ideal for use with CCTV equipment such as CCTV cameras, monitors, quads, switchers, multiplexers, VCRs and DVRs.

Easy to use, the EZ-VU BL3265 video balun requires **NO TOOLS** and can be connected to UTP in less than a minute. Due to its exceptional interference rejection,

the video signal can share the same cable bundle as data, audio and other video signals. Supports up-the-coax control signals up to 1000 feet.

The EZ-VU BL3265 can be used with ordinary 24 gauge solid copper UTP cable. Best performance is obtained when using Category 5 or better rated cable.

IMPORTANT: If you are using existing telephone company wiring, it must be free of loading coils, metal oxide surge protectors and bridge taps. Punch-Down blocks are acceptable.

The cable run should not exceed the specified distances. In order to determine the distance of existing cable runs, connect the wires of a pair at one end and use an ohm meter to measure the loop resistance at the other end. For 24 gauge wire, loop resistance is typically 51 ohms per 1000 feet, while 26 gauge has a resistance of 82 ohms per 1000 feet.

The EZ-VU BL3265 video balun is used in pairs. *Because each video balun is polarity sensitive, the same polarity must be maintained from one end to the other end of the cable run. Each EZ-VU BL3265 video balun is clearly marked on the bottom of each unit with a "+" or "-" polarity indicator.*

* **PLEASE NOTE:** Performance and distance may be affected by the quality of the cable used.



Warning! Some DVRs and Multiplexers can reduce the effective range over which a video signal can be transmitted. This is due to an inherent sensitivity to attenuated video signals within certain DVRs and Multiplexers. The video signal is attenuated by both coax and UTP cable over long distances. The usable distance can be reduced by 30% or more. Please consider this when calculating system requirements.

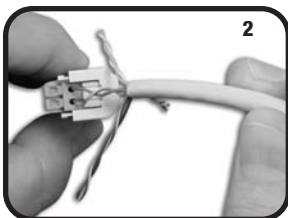
INSTALLATION INSTRUCTIONS



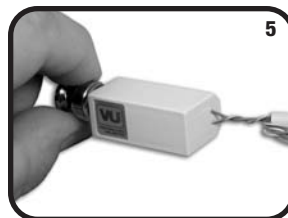
Step 1: Hold the metal BNC connector securely between thumb and index finger. With other hand, apply downward and backward pressure with thumb on the logo just behind the BNC connector to slide cover off. Cover may be somewhat tight when first opening, but with continued backward pressure, it will slide off easily. **DO NOT USE TOOLS OF ANY KIND TO ATTEMPT TO REMOVE SLIDING COVER!**



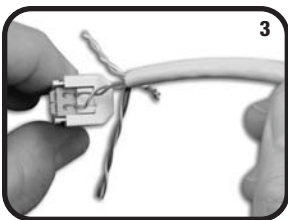
Step 4: Place the sliding cover back into the channel grooves and slide forward to close. As cover nears the closed position, carefully align the wires into the small notched grooves on the back of the sliding cover. This will provide a smooth and tight strain relief.



Step 2: Once cover is removed, you will notice a green connector with orange colored blocks at rear of balun. Grasp the orange blocks and gently pull them straight up until they snap into an up position. It is recommended that each orange block is pulled up and locked into the up position one at a time. (Once again, **DO NOT USE TOOLS** for this procedure.)



Step 5: As the sliding cover is pressed fully closed, the two wires should be aligned into the notched grooves on the back of the BL3265 video balun. With proper closure and alignment of the two wires into the notched grooves, the closed balun cover should hold the wires securely in place.



Step 3: Insert the two wires individually in the two holes at the rear of the green connector. **DO NOT MANUALLY STRIP THE WIRES!** The connector will do it automatically once the orange blocks are "snapped" down.

When the two wires are in place as far as they will go into the holes, press the orange blocks straight down with thumb pressure until you hear and feel the orange blocks snap into locked position. This will assure the two wires are securely in place.

TROUBLESHOOTING

No video

- After ensuring that the CCTV equipment is functioning properly, verify that UTP and BNC connections are secure, use a continuity tester to test for shorts or breaks in the cable.

Image is faded, fuzzy or distorted

- Use only unshielded twisted pair, preferably Cat 5 or better rated cable.
- Do not exceed specified distance. Note that the higher the category rating of cable, the greater the distance possible.
- Make sure that polarity is not reversed, observe polarity on each balun, Punch-Down block or splice.

- Verify that both wires of the twisted pair are properly connected and that there are no shorts along the wire path.

Video does not sync and image is distorted

- Check for the presence of a ground loop. (see below)
- Look for factors that can create crosstalk. Crosstalk is due to electromagnetic interference (EMI) and can occur when video signals are sent in opposite directions within the same jacketed cable. Try limiting this distance to under 1000 feet or using cable that is rated Cat 5 or better.

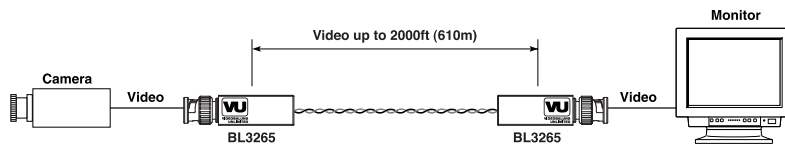
Video does not sync and the image is severely distorted with large white sections

- Try reversing the polarity of the twisted pair.

Horizontal bars traveling up or down the screen

- This may indicate the presence of a ground loop. When different power sources are used for camera, monitor or other equipment, differing ground potentials can cause ground loops. This causes voltage to flow between the CCTV equipment and the video baluns. A voltage greater than 0.5 volts can damage the baluns.
- One solution is to leave the camera ungrounded, as long as this meets the manufacturers recommendations and local electrical code.
- If this is not possible, an isolation transformer can be installed between the video balun pairs.
- Ground loops can be prevented by using the same power source for all equipment. UTP provides a convenient way of running power from a central point when unused pairs remain. When using three pairs of 24 gauge wire to run 24 VAC, the voltage drop typically limits the run to 500 feet (*for safety never use UTP cable for high voltage applications*). For greater distances, a lower gauge cable is needed. Several cable manufacturers now offer a combined UTP and power cable for added convenience.

SPECIFICATIONS



Video	Bandwidth Format	DC to 6 MHz NTSC, PAL, SECAM
Distance	Using Cat 5 cable	Up to 2000'
Wire	Unshielded Twisted Pair Gauge	Cat 2,3 5 or better 22 to 28 solid wire
Impedance	BNC Connector Side UTP Connector Side	75 ohms (unbalanced) 100 ohms (balanced)
Environment	Temperature Humidity (non condensing)	-20 to +75 C 0 to 95%
Mechanical	Size (LxWxH in inches) Mounting	2 9/32 x 5/8 x 13/16 Floating
Warranty	Limited Lifetime	
Regulatory	UL/CUL Listed Flammability	94V-0

Ghost Images

- In the cable run, check for bridge taps, untwisted sections of wire or split pairs. Bridge taps are unterminated sections of wire attached to the main cable loop. These should be removed because they can cause "ghosts" or faint versions of the original image to appear.
- Split pairs occur when one wire is taken from one pair and another wire is taken from another pair. This can severely degrade the performance of the cable. Use paired wires only.

LIMITED LIFETIME WARRANTY

VIDEOBALUNS UNLIMITED warrants their products are free from defects in material and workmanship and that they conform to **VIDEOBALUNS UNLIMITED** applicable published specifications for the life of the product.

There shall be no other warranties, express, statutory or otherwise, including any implied warranty of merchantability of fitness, or any other obligation on the part of **VIDEOBALUNS UNLIMITED** with respect to any of its products.

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