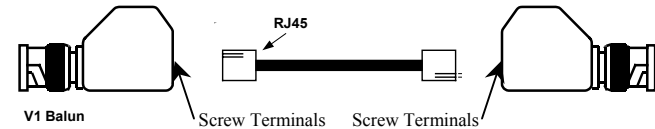


Technical Specifications

Environment	Close-Circuit TV (CCTV) equipment for security and surveillance
Devices	CCTV cameras, monitors, switchers, sequencers, multiplexers, and other CCTV equipment
Bandwidth	Video: DC to 8 MHz
Maximum Input	1.1Vp-p
Insertion Loss	Less than 2 dB per Balun pair over frequencies from DC to 8 MHz
Return Loss	Better than 15 dB over the frequency range from DC to 8 MHz
Common Mode Rejection	Greater than 40 dB @ 8 MHz
Max. Distance Color	Cat 3 –1200 ft (365m); Cat 5 – 2200 ft (670m)
Max. Distance Black & White	Cat 3 –1500 ft (457m); Cat 5 – 2500 ft (762m)
Cable – UTP	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 (RG59/U)
Connectors and pin configuration	Two screw terminals *Reverse polarity sensitive
Impedance	Input: 75 ohms (BNC) Output: 100 ohms (RJ45)
Temperature	Operating: 0 to 55 °C Storage: -20 to 85°C Humidity: up to 95%
Enclosure	Fire retardant plastic
Dimensions	1.75"x.75 x 1" (4.4 x 1.9 x 2.54 cm)
Warranty	2 years
Order Information	V1, V1-Pac



The V1-ST Video Balun eliminates 75-ohm coaxial cable and allows composite baseband video to be transmitted via single unshielded twisted pair (UTP) wiring in a Structured Cabling System. V1-ST Baluns are used in pairs to transmit standard NTSC, PAL, or SECAM composite video.



Frequently Asked Questions

- Is the V1-ST Balun reverse polarity sensitive?
Yes.
- Can more than one camera signal be transmitted under one 4-pair Cat 5 UTP cable?
Yes. Up to four (4) camera signals can be transmitted under a 4-pair Cat 5 UTP cable. Each camera signal uses one pair. The V1-ST is recommended for such applications.
- Can 25-pair and 50-pair bulk twisted pair cable be used to transmit multiple camera signals?
Yes. As long as the 25-pair and 50-pair cable meets Cat 5 specifications, it may be used to transmit up to 25 or 50 camera signals, respectively.
- Can CCTV camera power and audio be transmitted under the same UTP cable jacket as video?
Yes. On separate twisted pairs.
- Will V1-ST Baluns work with other cable besides Cat 5?
Yes. V1-ST Baluns will work with lower grades of cable such as Cat 3. Maximum distances will be less than with Cat 5.
- Where can I find a weather-resistant Cat 5 cable?
Major cable vendors offer weather-resistant Cat 5 cable. Contact Intelix Technical Support to help locate a supplier.
- What is the maximum length of twisted pair at a given gauge wire?
Maximum cable lengths are specified for 24AWG UTP cable. If lower gauge cable (i.e., 22AWG) is used, greater distances may be achieved.
- Will the V1-ST Balun work with 100-ohm shielded twisted pair (STP)?
Yes; however, shorter distances may be achieved due to higher capacitance. If used, ground the shield at least on one end.
- Does the V1-ST Balun work in conjunction with other CCTV Baluns?
Yes. Providing that the signal polarity of the Baluns match. Please note, picture quality may be affected.



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