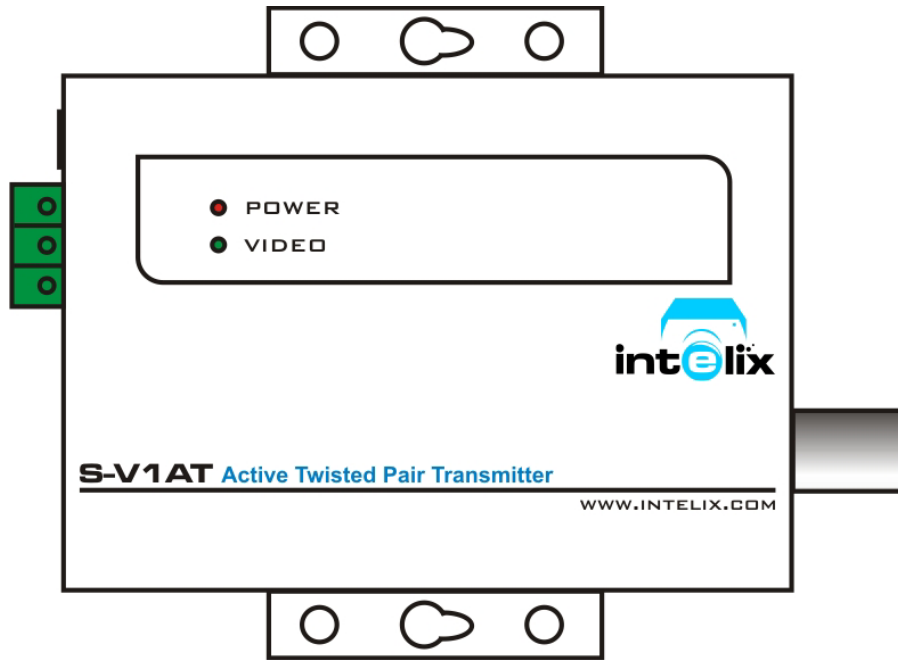


Intelix S-V1AT

Installation Manual



Introduction

Ideal for transmitting composite video extended distances over twisted pair cable, the Intelix S-V1AT transmits signals to remote Intelix baluns up to 4,000 feet away. The unit features screw terminal connectors for the twisted pair output and a BNC connector for the analog video input. The video channel signal quality is adjustable with gain and skew switches.

The S-V1AT is compatible with all baseband signals, including PAL, NTSC, and SECAM, and features built-in transient protection and exceptional interference rejection. The unit includes a 12V power supply.

When signal quality matters, choose Intelix.

Installation

Caution: Do not attempt to disassemble or alter the balun housing. There are no user-serviceable parts inside the unit. Doing so will void your warranty.

1. Power off the source and destination devices which will be connected to the baluns.
2. Verify the modular outlets and cross connects to which you will connect the S-V1AT are configured properly and labeled appropriately to identify the circuit.







Caution: To minimize the possibility of equipment damage from electrostatic discharge (ESD), all source and destination equipment must be powered off during installation. This includes signal extenders, splitters, and switches.

3. Verify the desired twisted pairs are not being used for other LAN or telephone equipment.

Caution: Do not connect the balun to a telecommunication outlet wired to unrelated equipment. Doing so may damage the unit or any connected equipment. Ensure all connected twisted pair cabling is straight-through (point-to-point).

4. Connect the S-V1AT to the video port of the source equipment.
5. Connect one end of the twisted pair cable to the S-V1AT.
6. Connect a compatible receive balun to the video port on the destination equipment.
7. Connect the other end of the twisted pair cable to the second balun. The twisted pair pinout on both the send and receive baluns should match.
8. Connect the 12V power supply to the S-V1AT. Verify the power LED is illuminated.
9. Power on the source and destination equipment.
10. Verify picture quality. If necessary, adjust the *Distance Adjust* dipswitches on the bottom of the unit.

Note: For your convenience, it is recommended that you uniquely mark the ends of the twisted pair cable before pulling them through a wall or conduit.

0-150'	all dips UP		 DISTANCE ADJUST SETTINGS
150-800'	dip 1 DOWN		
800-1,500'	dip 2 DOWN		
1,500 - 2,000'	dip 3 DOWN		
2,000'+	dip 4 DOWN		

Troubleshooting

Symptom	Probable Causes	Possible Solutions
Image not stable	Defective link or equipment	Verify source and destination equipment and cabling
Unusual colors	Reversed polarity	Verify the pinout on both the send and receive baluns match. Try swapping pairs.
Smearing or weak video contrast	Exceeded cable distance	Verify cable grade and total cabling distance
Horizontal bars moving upward in background	Ground loop problem	Verify the source and destination equipment are at the same ground potential. Ground the source and destination equipment.
Shaking image	Ground loop problem	Verify the source and destination equipment are at the same ground potential. Ground the source and destination equipment.
Variance in hue	EMI interference	Identify possible radiating frequency sources and isolate them from the cabling. Use shielded twisted pair cabling.
Background pattern	EMI interference	Identify possible radiating frequency sources and isolate them from the cabling. Use shielded twisted pair cabling.

Technical Specifications

Maximum Distance	Fully active system: 4,000 feet Passive system: 1,850 feet
Compatible Power Supply	12 – 40 VDC 9 – 24 VAC
Compatible Active Intelix Baluns	S-V1AR S-V16AR
Compatible Passive Intelix Baluns	S-V1ST S-V1P-R S-V1CP S-V16P
Bandwidth	DC to 8 MHz
Maximum Input	1.1 Vp-p, 75 ohms
Insertion Loss	Less than 2 dB over the frequency range
Return Loss	Greater than 15 dB over the frequency range
Protection	2KV (10/700 μ s) IEC 6100-4-5/1955 GB/T 1726, 5-1999
Over-current Protection	100 mA max
Cable	Unshielded Cat 5, Cat 5e, Cat 6 or better
Temperature	Operating: 0 to 55 C. Storage: -20 to 85 C. Humidity: up to 95% non-condensing
Warranty	2 years
Order Information	S-V1AT: one balun and one power supply

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches. Intelix specifications are based on straight-through cabling with standard-grade Cat 5.

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