



The Intelix V1-AR Active Receiver Balun allows the transmission of video signals up to 1 mile (1.6 km) via Cat 5 twisted pair cable when used in conjunction with a passive Intelix V1 or V1-ST video balun. The V1-AR features Automatic Gain Control (AGC) and Ground Loop Blocking (GLB) for reliable and stable image quality. Once installed, no adjustments to the V1-AR are needed.

The V1-AR automatically adjusts the brightness, sharpness, and color intensity of the video signal based on actual cable conditions, such as cable grade, distance, and environmental effects on the cable. Once installed, there is no further need to go on-site to check the video signal, and any further enhancements to the image may be made on the transmitting and receiving equipment.

The V1-AR requires a 24V, 2W AC power supply and connects directly to the video multiplexer or switcher. It features screw terminal connections with built-in strain relief for ease of installation. Also included is surge suppression, auto-resetting fuses, diagnostic LEDs, and Intelix's full two-year warranty.

**Technical Specifications**

<b>Bandwidth</b>	Video: DC to 4.5 MHz	<b>Environment</b>	Video and CCTV equipment for security and surveillance
<b>Input</b>	1.5 Vp-p max, 100 ohms, balanced	<b>Image Adjustment</b>	Automatic Gain Control for sharpness and luminosity
<b>Output</b>	1.1 Vp-p, +/- 1 dB, 75 ohms, unbalanced	<b>LED Indicators</b>	Green (Dim): Power Green (Bright): Video signal and AC power Red: Ground loop fault
<b>Insertion Loss</b>	-14 dB minimum for luma, -60 dB minimum for chroma. Determined through Automatic Gain Control	<b>Video IN/OUT Surge Protection</b>	+/- 1.5 V max permanent voltage positive or negative pulse, 3 V max. 1 ms
<b>Return Loss</b>	Greater than 15 dB	<b>AC/DC Power Surge Protection</b>	Above 30VAC RMS or 42 VDC
<b>Common Mode Rejection</b>	Greater than 40 dB @ 3.85 MHz	<b>Built-in Fuse Protection</b>	Auto-resetting upon power off <i>Not user serviceable</i>
<b>Max. Distance (Cat 5)</b>	NTSC: 5,000 ft PAL: 4,000 ft.	<b>Temperature</b>	Operating: 32 to 104 F (0 to 40 C) Storage: -4 to 185 F (-20 to 85 C) Humidity: up to 95%
<b>Cable</b>	<i>UTP:</i> 24 gauge or lower solid copper UTP; Impedance: 100 ohms @ 1 MHz; Maximum capacitance: 20 pf/foot; Attenuation: 6.6 dB/1000 ft. @ 1 MHz <i>BNC:</i> Impedance: 75 ohms @ 1 MHz	<b>Enclosure</b>	Fire retardant black plastic
<b>Connectors</b>	<i>Input:</i> Video: Two (2) screw terminals <i>reverse polarity sensitive</i> Power: Two (2) screw terminals Ground: One (1) screw terminal <i>Output:</i> Video: male BNC with 5" coax lead	<b>Dimensions</b>	2.4" x 2.25" x 1.0" (6.1 x 5.7 x 2.5 cent.) plus 5" coax lead
<b>Power</b>	24V (AC or DC) floating +/- 20%, 110 mA RMS typical, 3W RMS max*	<b>Included Mounting</b>	Velcro™
		<b>Warranty</b>	2 years

\*Power supply not included