

### Overview

The Active VGA Balun Kit allows VGA video to be transmitted via cost-efficient unshielded copper twisted cable in a point-to-point configuration. Each kit includes one (1) transmitter and one (1) receiver. The product supports up to 1920 x 1440 pixels for applications that require superior performance and features manual gain adjustment and local monitor output for added versatility.

### Applications

Digital signage, boardroom systems, collaborative PC systems, medical information systems



### Key Features

- Up to 400 ft (122m) via Cat5 TP @ 1920 x 1440
- Support for local monitor
- Adjustable gain control\*
- \*Does not support DDC handshaking.

Specifications																	
<b>Environment</b>	VGA. VESA VP&D 1.0, VIP ver 2.0.																
<b>Devices</b>	PCs, laptops, CRT monitors, LCD monitors, plasma screens, DLP projectors.																
<b>Transmission</b>	Transparent to the user.																
<b>Bandwidth</b>	Up to 280 MHz (1920 x 1440 resolution)																
<b>Impedance – Video Input (Coax)</b>	75 ohms																
<b>Impedance – Video Out (UTP)</b>	100 ohms																
<b>Connectors – Transmitter</b>	VGA Input (PC): DB15 HD Receptacle VGA Output (Local Monitor): DB15 HD Receptacle VGA Output (Cat5): RJ45 shielded																
<b>Connectors – Receiver</b>	VGA Input (Cat5): RJ45 shielded VGA Output (Display): DB15 HD Receptacle																
<b>Max. Distance via Cat 5 Twisted Pair</b>	<table border="1"> <tr> <td>640 x 480 (VGA):</td> <td>700 ft (213m)</td> <td>1280 x 1024 (SXGA):</td> <td>550 ft (167m)</td> </tr> <tr> <td>800 x 600 (SVGA):</td> <td>600 ft (183m)</td> <td>1600 x 1200 (UXGA):</td> <td>500 ft (152m)</td> </tr> <tr> <td>1024 x 768 (XGA):</td> <td>550 ft (167m)</td> <td>1800 x 1440:</td> <td>400 ft (122m)</td> </tr> <tr> <td>1280 x 768 (WXGA):</td> <td>550 ft (167m)</td> <td>1920 x 1440:</td> <td>400 ft (122m)</td> </tr> </table>	640 x 480 (VGA):	700 ft (213m)	1280 x 1024 (SXGA):	550 ft (167m)	800 x 600 (SVGA):	600 ft (183m)	1600 x 1200 (UXGA):	500 ft (152m)	1024 x 768 (XGA):	550 ft (167m)	1800 x 1440:	400 ft (122m)	1280 x 768 (WXGA):	550 ft (167m)	1920 x 1440:	400 ft (122m)
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<b>RJ45 Pin Configuration</b> <i>Reverse Polarity Sensitive</i> <i>Use EIA/TIA 568 A or B, straight-through wiring</i>	Pair 1: Pin 1 (R) Pin 2 (T) Pair 2: Pin 4 (R) Pin 5 (T) Pair 3: Pin 7 (R) Pin 8 (T) Pair 4: Pin 3 (R) Pin 6 (T)																
<b>Gain Adjustment</b>	Gain control via DIP switches on receiver (factory default setting: all OFF)																
<b>LED Indicators</b>	Transmitter: Power – One (1) green LED Receiver: Power – One (1) green LED; Switch position: Four (4) green LEDs																
<b>Cable</b>	Category 5 or better twisted pair cable. Requires additional VGA jumper cables (not included) The Active VGA Balun does not support VGA handshaking and control signals. Therefore it is necessary to set the monitor attributes prior to installing the VGA baluns. In order to do this, first connect the standard VGA cable directly from the PC to the monitor and then set the monitor attributes to the required settings (i.e., resolution, color, etc.). Also, in order to achieve optimum results via twisted pair, set the contrast and brightness levels to maximum.																
<b>Power Supplies</b>	Two (2) 110-240V/12VDC/1.25A. Detachable AC power cords included. * 12VDC power jacks *500036: <i>Continental Europe power cord</i>																
<b>Temperature</b>	Operating: 0° to 40° C. Storage: -10° to 70° C. Humidity: up to 95% non-condensing																
<b>Enclosure</b>	Black. ABS fire retardant plastic																
<b>Dimensions</b>	4.5" x 3.0" x 1.25" (11.4 cm x 7.6 cm x 3.2cm)																
<b>Weight</b>	3 lbs, 1.38 kgs																
<b>Mounting</b>	Desktop, rubber stand-offs.																
<b>Regulatory</b>	FCC/CE																
<b>Warranty</b>	One (1) year																
<b>Order Information</b>	500035: Active VGA Balun Kit, includes 1 transmitter and 1 receiver, 110V 500036: Active VGA Balun Kit, includes 1 transmitter and 1 receiver, 220-240V																

**Typical Application**

