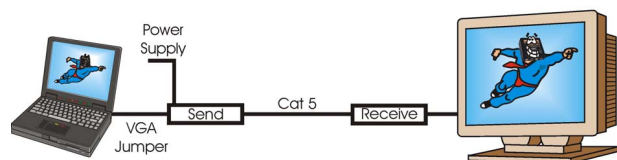
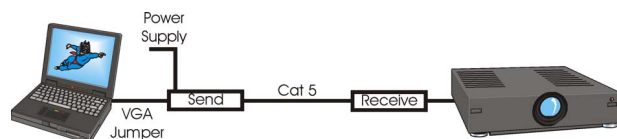


# Specifications

<b>Environment</b>	VGA
<b>Devices</b>	VGA monitors, laptops, multimedia projectors, PCs, flat panel displays
<b>Input Video Signal</b>	1.2 Volts p-p
<b>Video Amplifier Bandwidth</b>	350 MHz
<b>Actual Bandwidth</b>	120 MHz
<b>Focus</b>	25 to 350 feet
<b>Connectors</b>	Video In: HD-15 Video Out: HD-15 Link Connector: RJ45
<b>Power Supply</b>	5 VDC (external)
<b>Power Consumption</b>	1 Amp
<b>Temperature</b>	Operating: 0° to 55° C. Storage: -20° to 85° C. Humidity: up to 95% non-cond.
<b>Enclosure</b>	RF Shielded Metal
<b>Dimensions</b>	1.9"H x 1.6"W x 3.5"D
<b>Shipping Weight</b>	2 lbs
<b>Warranty</b>	2 years

\*Specifications subject to change without notice.



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## VGA-HR Active VGA Balun Installation Guide



## Introduction

The Intelix VGA-HR Active VGA Balun allows VGA signals to be transmitted up to 350 feet (UXGA: 1600 x 1200) using standard Cat 5 unshielded twisted pair cabling.

Features include:

- Up to 350 feet transmission (UXGA: 1600 x 1200)
- RF shielded metal casing
- Included VGA jumper cables and 5 VDC power supply
- Send and receive units

The Intelix VGA-HR is a complete solution for transmitting VGA over Cat 5.

## Installation

Before installation, please ensure all necessary components have been included:

- (1) VGA send balun
- (1) VGA receive balun
- (1) 5 VDC power supply
- (1) six foot VGA M-F cable

**Note:** Please connect all cables between the computer and the VGA-HR baluns before powering up the unit.

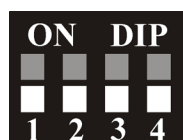
**Caution:** Do not attempt to open the balun housing. There are no user-serviceable parts inside the VGA-HR. Opening the unit will void your warranty.

- 1) Using the six foot VGA jumper cable, connect the VGA send balun to the VGA output on the back of your computer.
- Caution: Do not mount the balun over equipment ventilation openings. Covering the openings may cause the equipment to overheat.**
- 2) Connect the VGA receive balun to the VGA cable attached to your monitor.
  - 3) Connect the Cat 5 cable between the VGA send and receive baluns.
  - 4) Plug the 5 volt power supply into the VGA send balun; the receive balun will draw power from the send unit.
  - 5) Transmit text and graphics (such as desktop icons) from the send device to the receiving monitor.
  - 6) Set the computer resolution to the setting which will be used most often.
  - 7) Verify picture quality. If blurry or out-of-focus, toggle dip switches on the bottom of the unit until the quality is acceptable.

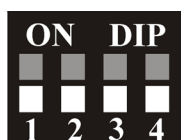
#### Recommended dip switch settings:

0-25 feet	All dip switches off for all colors
26-100 feet	Set dip switch #1 ON for all colors; 2, 3, 4 remain OFF
101-200 feet	Set dip switch #2 ON for all colors; 1, 3, 4 remain OFF
201-300 feet	Set dip switch #3 ON for all colors; 1, 2, 4 remain OFF
301+ feet	Set dip switch #4 ON for all colors; 1, 2, 3 remain OFF

\*Note: The dip switches are set to the ON position when in the *up* position (i.e., set farthest from the numbers. If recommended setting does not produce desired picture quality, try using a different setting of activated switches.



Blue



Green



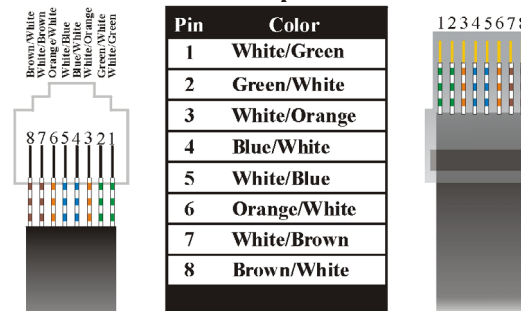
Red

## Troubleshooting

If your equipment malfunctions with VGA-HR Baluns in place, follow the troubleshooting procedures below:

1. Perform diagnostics on your video equipment by following the manufacturer's instructions.
2. Check all the connections, including power, as well as the pin out. Verify the RJ45 crimp pattern conforms to either EIA/TIA 568A or 568B standards, as shown below.
3. The maximum distances supported by the VGA Balun are dependent on the type of unshielded twisted pair cable and image resolution of the PC's VGA interface. Ensure that the maximum recommended operational distances have not been exceeded.
4. Check that only VGA jumper cables are being used.
5. Replace the non-working VGA Balun with another unit which is known to be working.
6. If you still cannot diagnose the problem, visit [www.intelix.com](http://www.intelix.com) or call Intelix directly at 608-831-0880 to find a qualified distributor.

#### EIA/TIA 568A Crimp Pattern Standard



#### EIA/TIA 568B Crimp Pattern Standard

