



## LEMAR INDUSTRIAL CORP.

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# ACTIVE VGA+RS232 Extender

### Description:

Our VGA+RS232 Extender supports a local monitor and a remote monitor as well RS232 signal via Cat5 or better cabling. Each set includes one transmitter and one receiver. This solution is really practical if you want to view on a local monitor a VGA signal and at the same time send the VGA signal to a remote VGA monitor or projector, eg in education or shop displays where the distances involved are greater. Contrast and brightness adjustment are included for a perfect setup. Both the transmitter and receiver are housed in a robust SPCC with black painting case for better shielding. These active VGA baluns work in conjunction with laptops, PCs, flat-screen LCD monitors and multimedia projectors. All our Baluns are 100% tested for reliability and durability to guarantee your signal integrity.

### Specification:

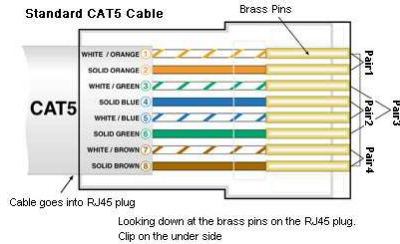
Actual Bandwidth:	120MHz (resolution up to 1920*1200)	
Connectors:	Transmitter (PC side) VGA in:HDB15 receptacle VGA out1:Shielded RJ45 jack VGA out2: HDB15 receptacle RS232 in: DB9 receptacle Power: DC jack	Receiver (Remote side) VGA in: Shielded RJ45 jack VGA out: HDB receptacle RS232 out: DB9 receptacle Power: DC jack
Impedance:	75ohm to 100ohm	
Cable UTP:	Cat5 or better, AWG#24 typical Impedance: 100ohm at 1MHz Maximum capacitance: 20pf/ft Attenuation: 6.6dB/100ft at 1MHz	
Typical distance:	640*480 (VGA) 800*600 (SVGA) 1024*768 (XGA) 1280*1024 (SXGA) 1440*900 (WSXGA+) 1680*1050 (WSXGA+) 1920*1200 (WUXGA)	300m 180m 150m 100m 100m 80m 30m
Gain adjustment	Fine adjusted by potential meters for Luma and Chroma	
LED indicators:	Power ON: blue	
Power supply:	5Vdc/1000mA * 2	
RJ45 Pin configuration:	R: Pin1(+), Pin2(-)/G:Pin4 (+), Pin5(-)/ B: Pin7(+), Pin8 (-) RS232: Pin3(+), Pin6 (-)	
Enclosure:	SPCC with black painting	
Dimension (body):	107(L)*75(W)*25(H) in mm	
Weight:	270g	

### Installation:

- 1) Turn your PC and monitor OFF prior to installation.
- 2) Connect a VGA cable between transmitter VGA IN and PC VGA OUT.
- 3) Connect a VGA cable between transmitter VGA OUT1 (HDB15 receptacle) and local monitor (HDB15 receptacle).

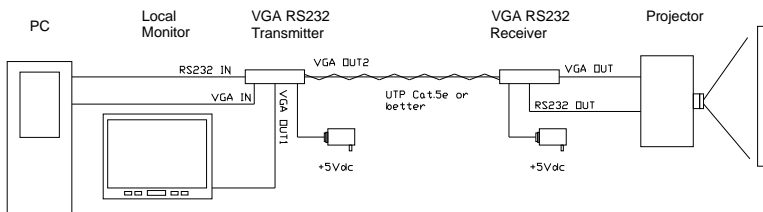
- 4) Connect a RS232 cable between PC RS232 OUT and transmitter RS-232 IN.
- 5) Connect an UTP cable transmitter OUT2 (RJ45 jack) and receiver VGA IN (RJ45 jack). Please pay attention to the wirings of RJ45 plugs by following figures, it is easy to make the mistake at this step. Please make sure you get all the cores into RJ45 plug in correct order and all cores go to the end of RJ45 plug before crimping. The brass pins will be pressed into the individual cores and locked the plug on to the cable by crimping tool.

Pin	Color of Core
1	White / Orange
2	Solid Orange
3	White / Green
4	Solid Blue
5	White / Blue
6	Solid Green
7	White / Brown
8	Solid Brown



- 6) Connect a VGA cable and a RS232 cable between receiver VGA/RS232 OUT (HDB15 receptacle) and used device such as projector VGA/RS232 IN (HDB15 receptacle).
- 7) Insert DC plugs into power input on both transmitter and receiver.
- 8) Turn ON all the power.
- 9) Adjust potential meters on receiver to get the best image.

## Application:



## Troubleshootings:

1. No function:
  - a) Check all the connections.
  - b) Check if LED indicators are turned ON.
2. No image from projector
  - a) Check projector's resolution.
  - b) Check if the resolution settings are over the specs. Of projector.
3. Poor image
  - a) Check if the distance is not too long.
  - b) Adjust the DIP switches to get the best images.
  - c) Check UTP cable (be sure you use Cat5 or better cable).

## **Warranty:**

Our products have a limited lifetime warranty. Lemar warrants that this product is to be free from defect in materials and workmanship, for the life of the product. The warranty given by Lemar is in lieu of any other warranties, express or implied. This warranty does not apply to units abused through misuse or subjected to improper and/or excessive voltage, beyond our control. Lemar assumes no responsibility for damages or penalties incurred resulting from the use of this product. Lemar's liability under any warranties shall be discharged by replacing or repairing, at our option, the defective product. Lemar's liability for any product shall not exceed a refund of the purchase price. The warranty listed here is intended only as a summary of your full and complete warranty.

For a full and complete warranty of this product, please contact Lemar.

## **Caution:**

Do not attempt to open the body, as there are no user-serviceable parts inside Balun. Opening the unit will void your warranty.

*All contents above are subjected to change without notice.*