

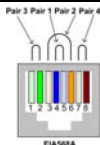
Overview

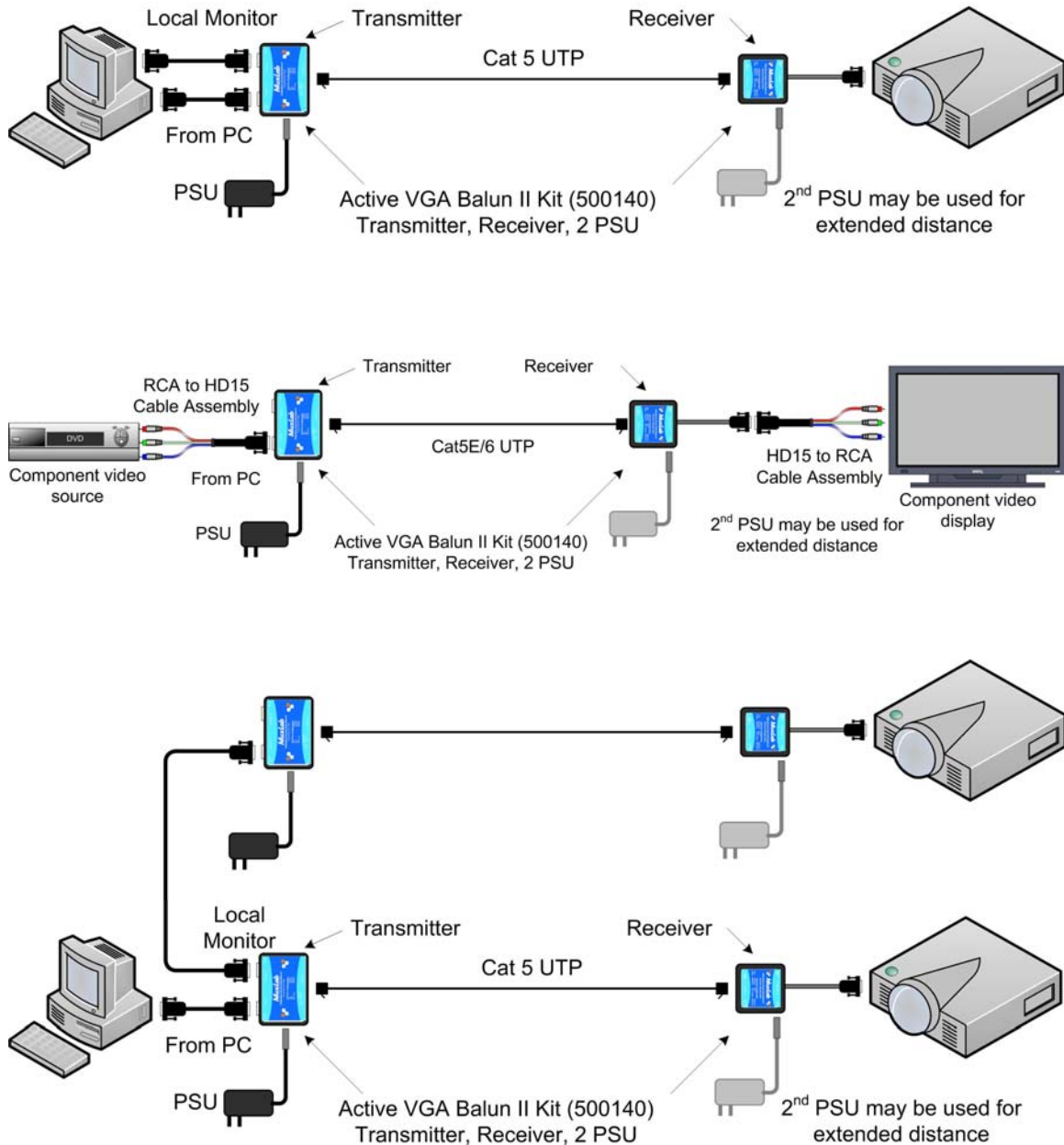
The Active VGA Balun II Kit allows VGA or component video to be transmitted via cost-efficient unshielded copper twisted cable in a point-to-point configuration. The product supports remote power pass-thru and is DDC compliant with all "plug-and-play" laptops, PCs and displays. The product supports up to 1920 x 1440 pixels and 1080p resolution and features manual gain adjustment and local monitor output for added versatility. Applications include; Digital signage, residential, boardroom, classroom, medical imaging video systems.



Key Features

- Up to 600 ft (180m) via Cat5e/6 @ 1920 x 1440
- Up to 600 ft (180m) via Cat5e/6 @ 1080p
- Remote power pass-thru up to 150 ft (46m)
- DDC1/DDC2 (Plug-and-Play) Compliant
- Manual gain compensation
- Local monitor output
- Ground loop isolation

Specifications		
Environment	VGA. VESA VP&D 1.0, VIP ver 2.0. DDC1 and DDC1.	
Devices	PCs, laptops, monitors, LCD monitors, plasma screens, DLP projectors.	
Transmission	Transparent to the user.	
Bandwidth	Up to 220 MHz (1920 x 1200 resolution), 1080p	
Input Impedance	HD15; 75 ohms	
Output Impedance -	Cat5: 100 ohms	
Connectors – Transmitter	VGA/Component Input (PC): DB15HD-F VGA/Component Output (Local Monitor): DB15HD-F VGA/Component Output (Cat5E): RJ45 shielded	
Connectors – Receiver	VGA/Component Input (Cat5E): RJ45 shielded VGA/Component Output (Display): DB15HD-M	
Maximum Distance – Remote Power	150 ft (46m) (Tx Balun unpowered, Rx balun powered) 150 ft (46m) (Tx Balun powered, Rx balun unpowered)	
Max. Distance for VGA via Cat 5E/6 <i>Up to three (3) transmitters may be cascaded. Loss of 100 ft (30m) for every Tx cascaded @ 1024x768.</i>	640 x 480 (VGA): 1000 ft (305m) 800 x 600 (SVGA): 1000 ft (305m) 1024 x 768 (XGA): 1000 ft (305m) 1280 x 1024 (SXGA):850 ft (260m)	1600 x 1200 (UXGA):800 ft (245m) 1366 x 768 (WXGA):850 ft (260m)* 1680x1050 (WSXGA):850 ft (260m) 1920 x1200 (WUXGA):600 ft (180m)** *Cat6:Skew is noticeable at 300' (90m) **Cat6:Skew is noticeable at 200' (60m)
Max Distance for Component Video (YPbPr) via Cat 5E/6 <i>Up to four (4) transmitters may be cascaded</i>	480i/p: 1,000 ft (305 m) 1080i: 850 ft (260 m) 1080p: 600 ft (180 m) * VGA-to-component video cables required at both ends (not included)	
RJ45 Pin Configuration Reverse Polarity Sensitive <i>Use EIA/TIA 568 A or B, straight-through wiring</i>	Red: Pin 7 (R) Pin 8 (T) Green: Pin 3 (R) Pin 6 (T) Blue: Pin 1 (R) Pin 2 (T) DDC/Remote Power: Pin 4 (R) Pin 5 (T)	 
Gain Adjustment	Gain control via brightness and sharpness potentiometers (Rev B)	
LED Indicators	Tx Balun: Power: One (1) green LED Sync: One (1) green LED Rx Balun: Power: One (1) green LED	
Cable	Category 5 or better twisted pair cable. Transmitter requires additional VGA jumper cables (not included)	
Ground Loop Isolation	Up to -2VDC to +3VDC between PC and display ground.	
Power Supplies	Includes two (2) 110-240V/12VDC/0.5 power supplies with removable AC blades for North America and Continental Europe. 12VDC power jacks.	
Temperature	Operating: 0° to 40° C. Storage:-10° to 70° C. Humidity: up to 95% non-condensing.	
Enclosure	Black. ABS fire retardant plastic	
Dimensions	4.5" x 3.8" x 1.25" (11.4 cm x 9.7 cm x 3.2cm)	
Weight	2 lbs, 0.9 Kg	
Regulatory	FCC/CE, RoHS	
Warranty	Two (2) years	
Order Information	500140: Active VGA Balun II Kit (Rev B) 500141: Active VGA Balun II, Transmitter (Source), No PSU 500142: Active VGA Balun II, Receiver (Display), No PSU (Rev B) 500144: Power Supply 100-240V/12VDC/.5A for 500141 or 500142	

Typical Applications**MuxLab Inc.**

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