VideoEase VGA Balun

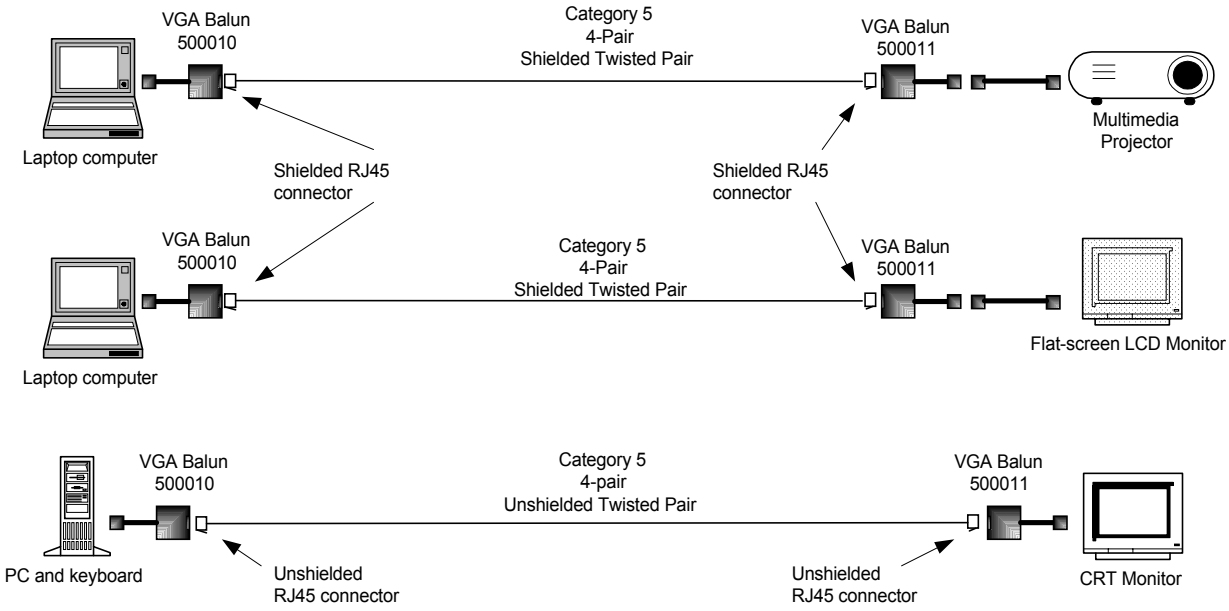
Overview

The VideoEase VGA Balun eliminates costly and bulky VGA cable, allowing a VGA source to be connected to a VGA monitor via 4-pair Cat 5 shielded twisted pair or unshielded twisted pair cable depending on the equipment used. Used in pairs, the VGA Balun allows VGA video to be transmitted up to 450ft (137m) via Cat 5 at resolution 640 x 480 pixels. The VGA Balun is sold in two connector configurations; 500010 and 500011, depending on whether the balun is connecting to a VGA source (500010) or to a VGA destination (500011).

The VGA Balun works in conjunction with laptops, PCs, CRT and flat-screen LCD monitors and multimedia projectors. Typical applications include corporate projection systems, classroom video instruction and video information systems.

Specifications	
Environment	VGA. VESA VP&D 1.0, VIP ver 2.0.
Devices	CRT and flat-screen LCD monitors, laptops, PCs, multimedia projectors.
Transmission	Transparent to the user.
Bandwidth	DC to 60MHz
Input Signals	Video: 1.1Vp-p Horizontal sync: TTL standard. 300kHz max. bandwidth Vertical sync: TTL standard. 300kHz max. bandwidth
Insertion Loss	Less than 3 dB per pair over the frequency range.
Common Mode Rejection (CMMR)	15kHz -60dB max. 100kHz to 10MHz -40dB max. 100MHz -20dB max.
Video Signal Return Loss	-15dB max from DC to 60MHz
Video Differential Gain	+/- 2%
Video Differential Phase	+/- 2%
Connectors	500010: DB15 HD Plug (Connects to VGA output of PC), RJ45 shielded 500011: DB15 HD Receptacle (Connects to VGA monitor input), RJ45 shielded
Max. Distance via Cat 5 Twisted Pair	VGA: 640x480 pixels (15MHz) 450ft (137m) SVGA: 800x600 pixels (30MHz) 350ft (107m) XGA: 1024x768 pixels (60MHz) 250ft (76m) SXGA: 1280x1024 pixels (100MHz) 200ft (61m)
RJ45 Pin Configuration *Reverse Polarity Sensitive*	R Video (Red) Pin 1 (+) Pin 2 (-) Balanced G Video (Green) Pin 4 (+) Pin 5 (-) Balanced B Video (Blue) Pin 7 (+) Pin 8 (-) Balanced Horiz Sync Pin 3 Vert Sync Pin 6 Horiz & Vert Sync Return: STP cable: Shield. UTP cable: Not connected +5VDC Not connected ID0 Not connected SDA Not connected SCL Not connected
Cable	Cat 5 STP or UTP depending on the equipment. **When used with monitors or laptops without built-in IEC 3-prong power supply, Cat 5 shielded twisted pair cable and shielded RJ45 connectors must be used.**
Impedance	Input: RGB 75 ohms (DB15 HD) Unbalanced Output: RGB 100 ohms (RJ45 shielded) Balanced Horizontal and vertical sync: TTL standard
Temperature	Operating: 0 to 55 C. Storage:-20 to 85 C. Humidity: up to 95% non-cond.
Enclosure	ABS fire retardant plastic
Dimensions	2.40" x 2.25 x 1.00"
Mounting	Free-standing. Separate Velcro mounting pad included
Warranty	Lifetime
Order Information	500010 VideoEase VGA Balun, DB15 HD Plug 500011 VideoEase VGA Balun, DB15 HD Receptacle

Typical Application



Note:
If the PC/laptop or monitor/projector does not have a built-in 3-prong AC power supply, then shielded twisted pair (STP) must be used between the VGA Baluns. The STP must be terminated with shielded RJ45 connectors.

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