

## Overview

The VGA Balun eliminates costly, allowing a VGA source to be connected to a VGA monitor via 4-pair Cat5e/6 twisted pair cable. In order to ensure a common signal ground, shielded twisted pair is highly recommended.

Used in pairs, the VGA Balun allows VGA video to be transmitted up to 350ft (107m) via Cat5e/6 at 800 x 600 resolution. The VGA Balun works in conjunction with PCs, laptops, plasma, LCD monitors and DLP projectors.



## Applications

Boardroom systems, classroom projection systems  
digital signage, custom residential AV, DVR monitor extension, medical display systems

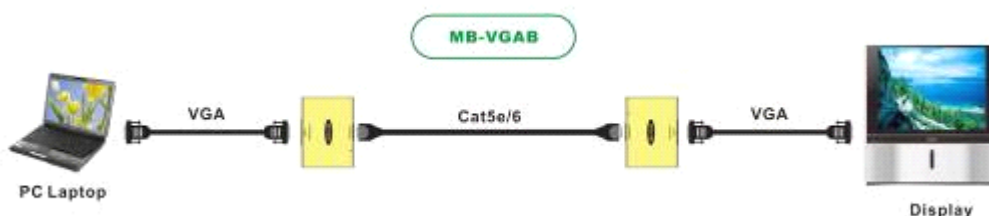
## Features & Benefits

- Up to 250 ft (76m) @ 1024 x 768
- Cat5e/6 STP cable highly recommended\*
- No power required
- Saves conduit space
- Quicker moves, adds and changes

## Quick Setup Guide:

Plug your VGA cable coming from your PC into the Transmit Baluns HD15 connector. Secure the cables using the lock down screws. Make a similar connection between the Receive Baluns HD15 connector and your display. Insert the CAT5 cable into both ends of the Baluns. You may use standard EIA 568A/B termination

## Typical Application



## Specifications:

Environment	VGA. VESA VP&D 1.0, VIP ver 2.0.
Devices	CRT and flat-screen LCD monitors, plasma screens 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 Differential Gain	+/- 2%
Video Differential Phase	+/- 2%
Connectors	RJ45 shielded HD15 Plug
Max. Distance via Cat5e/6 Twisted Pair	VGA: 640x480 pixels (15MHz) 450ft (137m) SXGA: 1280x1024 pixels (100MHz) 200ft (61m) SVGA: 800x600 pixels (30MHz) 350ft (107m) WXGA: 1366x768 pixels 180ft (55m) XGA: 1024x768 pixels (60MHz) 250ft (76m)
RJ45 Pin Configuration <i>Reverse Polarity Sensitive</i>	R Video (Red) Pin 1 (+) Pin 2 (-) Balanced Horiz Sync Pin 3 G Video (Green) Pin 4 (+) Pin 5 (-) Balanced Vert Sync Pin 6 B Video (Blue) Pin 7 (+) Pin 8 (-) Balanced
Cable	In order to ensure a common signal ground, Cat5e/6 shielded twisted pair (STP) is highly recommended. Unshielded twisted pair (UTP) may be used only when there is full signal ground continuity between the VGA source and the VGA display.
Impedance	Input: RGB 75 ohms (HD15) 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-condensing



## AV EXTENDER

Enclosure	Aluminum alloy
Dimensions(packaging)	7.5*26*151mm (including one pair of Balun)
Weight(packaging)	1950g

NOTE: Baluns are interchangeable for transmit or receive functions.