

ENFORCER®

MVE-SV010Q

VGA over Cat5e/6

Manual



- Passive operation—no external power required
- Uses inexpensive Cat5e/6 cable (UTP/STP)*
- Extends VGA cable range up to 197ft (60m) at 1280x1024 resolution

*Unit works with unshielded twisted pair (UTP) and shielded twisted pair (STP). For best results in areas with high interference, use STP.

SLI SECO-LARM



NOTE: Products with model numbers that end with "Q" or products that have a round green "Q" sticker signify RoHS compliance.

Introduction:

The ENFORCER Passive VGA Baluns extend VGA video signals up to 443ft (135m) using low-cost Cat5e/6 cable. These units make it possible for CCTV video sources such as DVRs and computers to be secured in one room while running VGA signals to a monitor or projector in another room.

Specifications:

VGA connectors	Female, 15-pin	
Number of inputs	1	
Number of outputs	1	
Range	640x480 pixels (15MHz)	443ft (135m)
	800x600 pixels (30MHz)	344ft (105m)
	1024x768 pixels (60MHz)	246ft (75m)
	1280x1024 pixels (100MHz)	197ft (60m)
Operating temperature	32°~131° F (0°~55° C)	
Operating humidity	Up to 95%	
Storage temperature	-4°~185° F (-20°~85° C)	
Dimensions	2 1/2" x 2 5/8" x 1" (64x67x27 mm)	
Weight	10-oz (284g)	

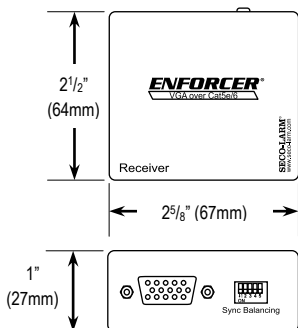
T568-B Wiring Specification:

Pair #	Wire	Pin #	Configuration
1	Blue	4	G Video (+)
	Blue/White	5	G Video (-)
2	Orange/White	1	R Video (+)
	Orange	2	R Video (-)
3	Green/White	3	Horizontal sync
	Green	6	Vertical sync
4	Brown/White	7	B Video (+)
	Brown	8	B Video (-)

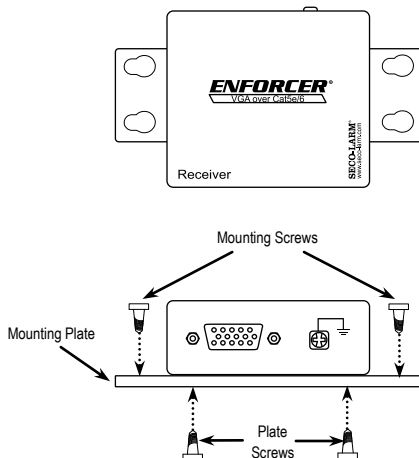
Parts List:

- 1 x Transmitter
- 1 x Receiver
- 1 x Manual
- 2 x Mounting Plate
- 8 x Plate Screws
- 8 x Mounting Screws

Dimensions:

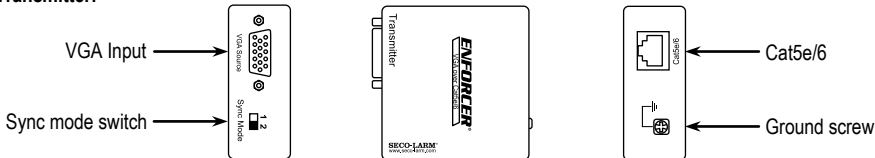


Mounting Plate Installation:



Overview:

Transmitter:



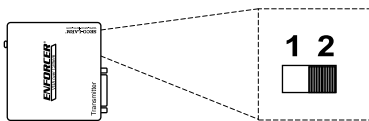
Receiver:



Installation:

1. Determine the location where the VGA over Cat5e/6 units will be placed as well as how much Cat5e/6 cable will be necessary.
2. Connect the VGA source to the transmitter's "VGA Source" connector using a VGA cable.
3. Connect the VGA display or other destination device into the receiver's "VGA Monitor" connector using a VGA cable.
4. Connect the receiver and transmitter units using a Cat5e/6 cable.
5. If using Cat5e/6 shielded twisted pair (STP), ground the cable's shield to the ground screw on both units.
6. Adjust the sync mode switch (see below).

Sync Mode Switch:



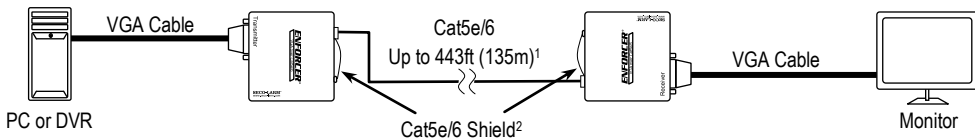
1. For LCD monitors under 17" or CRT monitors, use sync mode 2. If there is no image, switch to sync mode 1.
2. For LCD monitors over 17", use sync mode 1. If there is no image, switch sync mode 2.
3. If there is still no image, see *Sync Balancing DIP Switch*.

Sync Balancing DIP Switch:



1. For CRT monitors, if no image appears, it may be necessary to adjust the sync balance.
2. If there is no image, turn on switch #1. Flip each switch one at a time until an image appears.
3. If each DIP switch setting has been tested but no image appears, it may be necessary to use shielded twisted pair (STP).

Sample Application:



¹ Check specifications on page 2 for range at each resolution.
² Unit works with unshielded twisted pair (UTP) and shielded twisted pair (STP). For best results in areas with high interference, use STP.

Troubleshooting

Image is weak, faded, or blank.

- Use shielded twisted pair (STP) cable.
- Check the sync mode switch.
- Check the sync balancing DIP switch.
- Check that the cable length is within the given limits of the resolution being used.
- Replace with a higher-grade cable. The balun works with Cat5, but Cat5e and Cat6 allow for longer range operation.
- Make sure the source and displays are powered.
- Make sure the transmitter and receiver are plugged into the correct units.

Also Available from SECO-LARM:



**Component Video Balun
Over Cat5e/6**



HDMI over Cat5e/6



**Active VGA and Audio
Distributors over Cat5e/6**



HDMI Matrix



Wireless HDMI Extenders



HDMI Switcher

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