

ENFORCER[®]

Passive Video Baluns

Installation Manual



EB-P101-01Q

Passive Video Balun



EB-P101-20Q

Passive Video Balun with 6" Pigtail

- Transmits up to 1,300ft (400m) color video or up to 1,950ft (600m) B/W video
- Passive operation – No external power required
- High immunity from interference
- Uses low-cost Cat5e/6 cable instead of costly coaxial cable
- Screwless terminal blocks for easy installation
- Small size allows mounting of multiple baluns behind a DVR

Specifications:

Model		EB-P101-01Q	EB-P101-20Q	
Video	Range*	B/W 1,950' (600m) Color 1,300' (400m)		
	Video format	NTSC, PAL, SECAM		
	Maximum input	1.1Vp-p		
	Insertion loss	<2dB per pair from DC-6MHz		
	Return loss	>15dB from DC-6MHz		
	Frequency response	DC-6MHz		
	Common mode rejection	>40dB, 15kHz-6MHz		
Connections	Wire type	UTP (Unshielded Twisted Pair) 24~16 AWG		
	Wire category	Cat2~Cat6		
	UTP Connection	Silver plated		
	Attenuation	DC-6MHz, 6.6dB max.		
	Impedence	Coax, male BNC Terminal block	75Ω@1MHz 100Ω@1MHz	
Other	DC Loop resistance	52Ω/1000' (52Ω/305m)		
	Differential capacitance	19pF/ft max. (62pF/m max.)		
	Power	No power required		
	Operating temperature	32 ~131 F (0 ~55 C)		
	Storage temperature	-4 ~158 F (-20 ~70 C)		
	Humidity range	0~95 % (Non-condensing)		
	Case	ABS Plastic		
	Weight	1.4-oz (40g)		
	Cable length	N/A	6" (153mm)	
	Dimensions	1 ¹³ / ₁₆ "x ⁹ / ₁₆ "x ⁹ / ₁₆ " (46x15x15 mm)	1 ³ / ₁₆ "x ⁹ / ₁₆ "x ⁹ / ₁₆ " (30x15x15 mm) <i>Housing only</i>	

*Shorter range may result when used with a DVR.

Parts List:

EB-P101-01Q

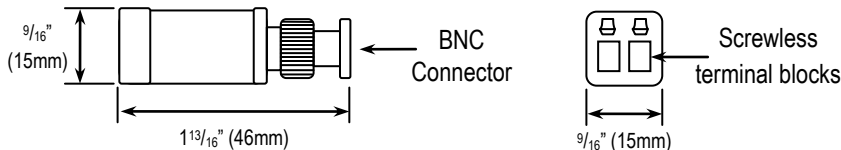
10 x Passive video baluns
1 x Manual

EB-P101-20Q

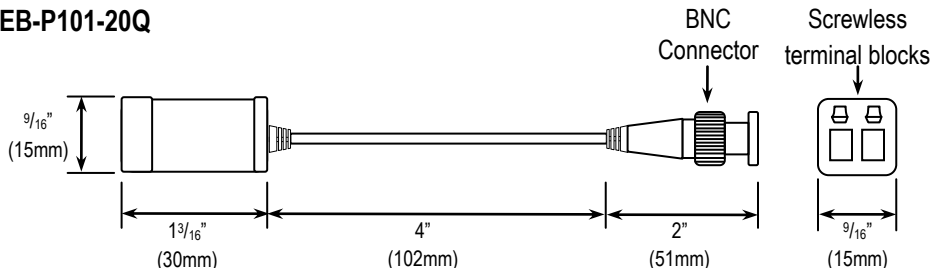
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Overview:

EB-P101-01Q



EB-P101-20Q

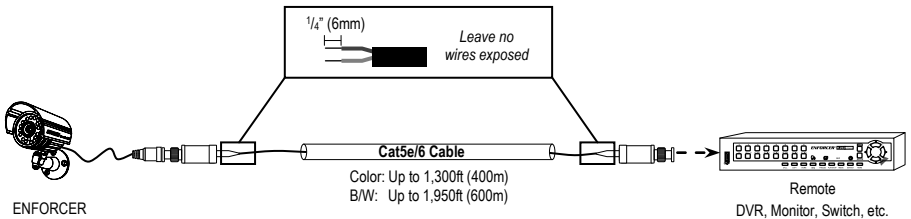


Installation:

1. Video baluns are connected in pairs. Connect one balun to the CCTV camera. Connect another balun to a DVR or other remote device.
2. Make sure the distance between the camera and the remote video device does not exceed 1,950ft (600m) for black and white video or 1,300ft (400m) for color video.
3. Run Cat5e/6 cable (UTP) from the remote video device to the camera.
4. Connect the Cat5e/6 cable to both baluns. **NOTE:** Video baluns are polarity-sensitive.
 - a. Strip approximately 1/4" (6mm) of insulation from the same two wires at both ends of a Cat5e/6 cable.
 - b. Push down the small tabs above the terminals. Insert each wire into each terminal at both ends of the cable. After the wires have been inserted into the terminals, there should be no bare wire showing.
5. Connect the video baluns into the BNC connector of the CCTV camera and the remote video device.
6. Test the connection by powering up the CCTV camera and remote video device to make sure they operate as expected.

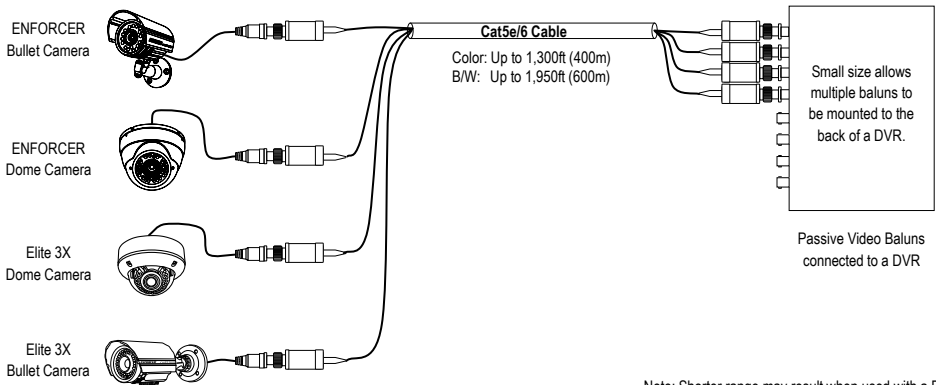
Sample Applications:

Single Pair of Passive Video Baluns



Note: Shorter range may result when used with a DVR.

Multiple CCTV Cameras Over a Single Cat5e/6 Cable



Note: Shorter range may result when used with a DVR.

Also Available from SECO-LARM:



4-Channel Passive Video Transceiver



16-Channel Passive Video Transceiver



Active Video Baluns (Single or Hub)



Weatherproof Passive Video Balun



Passive Video, Power, and Data Balun



Passive Video Balun with Ground Loop Isolator

Troubleshooting:

Wavy or ghost image if connected to image processor (e.g., multiplexer or DVR), but not if directly to monitor.

- Move the Cat5e/6 cable away from possible sources of interference.
- Ensure that the same twisted pair connects to a balun at both ends of the cable.
- Replace the cable with a new Cat5e/6 cable.

Image background flutters between dark and light.

- Remove a local power source, or adjust the monitor's brightness and contrast.

Image is wavy and shakes.

- Try reversing polarity of the two wires at one end of the Cat5e/6 cable.

Image is weak or faded.

- Reduce the Cat5e/6 cable length.
- Replace with a higher-grade cable. Cat5e cable meets the specifications in the manual. Cat6 cable allows longer range.

No image.

- Double-check that the Cat5e/6 and BNC cables are connected properly.
- Run a continuity test on all wires in the cable.
- Check that the camera and monitor are powered up.

IMPORTANT

Users and installers of this product are responsible for ensuring this product complies with all national, state, and local laws and statutes related to monitoring and recording audio and video signals. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or statutes.

WARNING

Incorrect mounting which leads to exposure to rain or moisture inside the enclosure could cause a dangerous electric shock, damage the device, and void the warranty. Do not open the case of this device, as there are no field-serviceable components inside.

WARRANTY: This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for two (2) years from the date of sale to the original customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of SECO-LARM and the purchaser's exclusive remedy, shall be limited to the replacement or repair only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damage of any kind to the purchaser or anyone else.

NOTICE

The information and specifications printed in this manual are current at the time of publication. However, the SECO-LARM policy is one of continual development and improvement. For this reason, SECO-LARM reserves the right to change specifications without notice. SECO-LARM is also not responsible for misprints or typographical errors.

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