ENFORCER®

EB-P101-25WQ

Weatherproof Passive Video Balun

Installation Manual

- Weatherproof for outdoor applications
- Transmits up to 1,300ft (400m) color video or up to 1,950ft (600m) B/W video
- Passive operation – No external power required
- Uses low-cost Cat5e/6 cable instead of costly coaxial cable
- High immunity from interference
- Pigtails for flexible installations
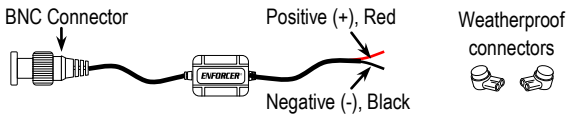- Built-in surge protection

SECO-LARM® SLI

FC C€ RoHS

Specifications:

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	75Ω@1MHz
		2 Wires	100Ω@1MHz
Other	DC Loop resistance		52Ω/1,000ft (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		0.7-oz (20g)
	Cable length (BNC side)		5" (127mm)
	Dimensions (Housing)		$1^1/_8$"x$1^1/_{16}$"x$1^1/_{16}$" (30x18x18 mm)

*Shorter range may occur when used with a DVR.

Overview:

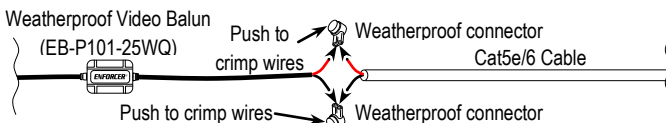BNC Connector   Positive (+), Red   Weatherproof connectors

Negative (-), Black

Parts List:

1x Weatherproof balun
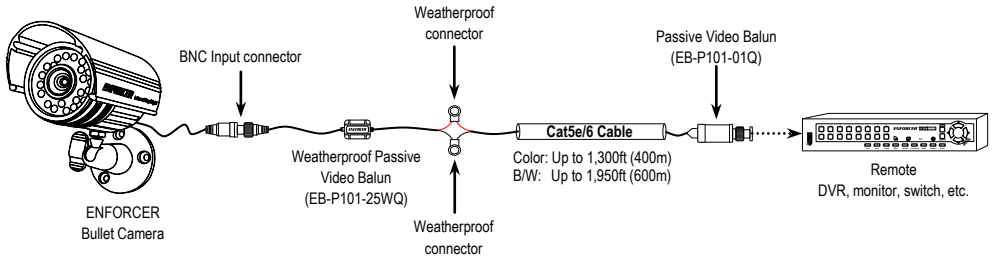6x Weatherproof connectors
1x Manual

Installation:

1. Video baluns are connected in pairs. Connect one balun to the CCTV camera's BNC connector. Connect another balun to the BNC connector of a DVR or other remote device.
2. The distance between the camera and the remote video device must 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 Cat5e/6 cable to both baluns using the weatherproof connector to connect the wires.
   a. Insert the wires into the weatherproof connector—positive with positive and negative with negative.
   b. Push down on the weatherproof connector to crimp the two wires.
   c. Repeat steps a. and b. for the remaining wires.
5. Connect the video baluns to the BNC connector of the CCTV camera and remote video device.
6. Test the connection by powering up the CCTV camera and remote video device to make sure they operate as expected.
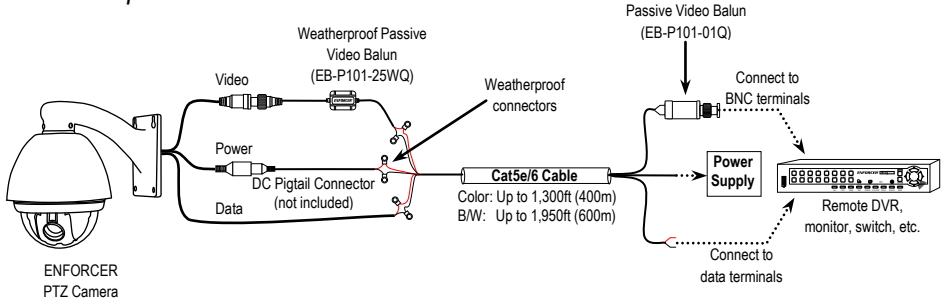
Weatherproof Video Balun (EB-P101-25WQ)   Push to crimp wires   Weatherproof connector   Cat5e/6 Cable

Push to crimp wires   Weatherproof connector

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Sample Installations:

CCTV Camera with an EB-P101-25WQ

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

Connecting Video, Power, and Data with a Weatherproof Passive Video Balun and Weatherproof Connectors

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

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.

Other Passive Video Baluns Available from SECO-LARM:

Passive Video Balun

Passive Video Balun with Ground Loop Isolator

Passive Video, Power, and Data Balun

Passive Video Balun with 6" Pigtail

4-Port Passive Video Transceiver

16-Port Passive Video Transceiver

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 a period of two (2) years from the date of sale to the original consumer 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 replacement or repair only, at SECO-LARM option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damages of any kind to the purchaser or anyone else.

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