Specifications:

EVT-PC4-VT2Q (Video Balun Card)

B/W: 2,000 feet (610M)		
Color: 1,300 feet (400M)		
RS170, NTSC, PAL, SECAM, CCIR		
1vpp		
< 2dB per pair from DC ~ 5 Mhz		
>-15dB from DC ~ 5 Mhz		
DC ~ 5 Mhz		
DC ~ 5 Mhz, 1.5 dB max		
60 dB, 15 KHz~5 MHz		
75 Ohms @ 1 MHz		
100 Ohms @ 1 MHz		
No power required		
14°~165°F (-10°~74°C)		
0 ~ 95%		
UTP (16 - 24 AWG)		
CAT2 or better, CAT5 ideal		
Screwless Terminal Blocks		
4		

Removable terminal block				
Power jack (2.1mm jack)				
Removable terminal block				
3-color LED				
12VDC (inc. power adapter)				
4 Amp. (inc. power adaptor)				
14°~165°F (-10°~74°C)				
0 ~ 95%				
UTP (16 - 24 AWG)				
CAT2 or better, CAT5 ideal				

Installation Manual ENFORCER



EVT-PC4-VT20

4-port PCI Passive Video Balun Hub Range: Up to 2,000' (610mm)

EVT-PC4P-JT0

4-port PCI Power Distributor Card Range: See chart on page 4.

EVT-PC4KO

4-port PCI Video Balun Hub & Power Card Set (Includes 4 Amp 12VDC Adapter)





WHAT IT IS

The ENFORCER EVT-PC4-VT2Q is a 4-port PCI Video Balun Hub specifically designed for PC based DVR cards. The EVT-PC4-VT2Q is the most practical and cost efficient way of connecting video signals from CCTV cameras to PC based DVR cards via Cat5 cables. It eliminates the need to install individual video baluns on the DVR card side, and is equipped with a gold plated BNC connector for optimum video performance and a screwless terminal block for convenient and organized wiring installations.

The EVT-PC4P-JTQ is an add-on power card for EVT-PC4-VT2Q. When installed with EVT-PC4-VT2Q it will allow power to be transmitted from the PC side to CCTV camera side over the same UTP cables used by the video signal. It centralizes the power suppy of CCTV cameras.

Installation

Installing the EVT-PC4-VT2Q and EVT-PC4P-JTQ

- 1. Shut down the computer, disconnect the power and remove the computer cover from its chasis. See Fig. 2.
- 2. Determine the location of the available card slots at the back panel of the computer, and remove the metal covering of the desired slot.
- Securely mount the EVT-PC4-VT2Q and/or EVT-PC4P-JTQ in their respective slots with the provided screw at the back panel of the computer. Please note that the EVT-PC4-VT2Q and EVT-PC4P-JTQ boards do not need to be inserted into the PCI (Peripheral Componet Interconnect) slots of the computer motherboard. Then replace the cover of the computer.
- NOTE: For convenient wiring it is recommended that the DVR cards, EVT-PC4-VT2Q and EVT-PC4P-JTQ, be installed adjacent to each other as shown on Fig. 2.

EVT-PC4-VT2Q Wiring (see Fig. 3) - Video Balun Card

- 1. Make sure the maximum distance between the CCTV camera and the DVR card does not exceed 1,950 feet for monochrome or 1,300 feet for color.
- 2. Run the UTP cable from the DVR card to where it will be connected to the CCTV camera. Follow the CCTV camera's wiring instructions for information on how to safely run and hide this wire.
- NOTE: 1. Individual separate passive video baluns such as SECO-LARM's EVT-PB1 are required for each camera on the camera side.
 - 2. The video baluns are polarity-sensitive. Take note of the colors of the positive & negative wires of the video signal cables as this will be needed when connecting the other end of the UTP cables at the DVR card side.
 - 3. Use the orange/ orange-white color wire pair of the UTP cable for the video signal. Connect the UTP cables to the passive video baluns on the camera side and plug the video baluns into the BNC connector of the CCTV cameras. The EVT-PC4-VT2Q can accomodate a maximum of 4 cameras.

*Note: Shorter range may result when baluns are used with DVR.

Minimum Distance Over UTP @ 12VDC*

Current Draw	1 Pair	2 Pair	3 Pair
100mA	100′	200′	300′
300mA	30′	60′	100′
1 Amp	N/A	15′	30′

*Note: Maximum distance depends on voltage, current, ambient temperature, and wire guage. (Maximize distance with 3 UTP pairs.)

WARRANTY: This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for a period of one (1) year 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's 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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FILE: D\DTP\MANUAL\MiEVT-PC4 series 07A.pmd Order Part # 764-027% PITSW1

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Website: www.seco-larm.com Tel: 800-662-0800 / 949-261-2999 Fax: 949-261-7326 E-mail: sales@seco-larm.com 4. Connect the other ends of the UTP cables of the respective cameras into the screwless terminal block on the EVT-PC4-VT2Q side, see Fig. 3. Each video signal from the CCTV camera requires one positive and one negative wire, so observe correct polarity when connecting the UTP cables. "Vi-1" represents the video input and "Vo-1" represent video output of channel 1.

NOTE: Bare wires must not be exposed outside of the EVT-PC4-VT2Q's terminal block.

- Connect the included male-to-male BNC cable. Connect one end to the BNC female connector of the EVT-PC4-VT2Q side and connect the other end to the BNC female connector of the DVR card side. Connect as many cables as needed.
- 6. Test the connection by powering up the CCTV camera and DVR card to make sure they operate as expected.

EVT-PC4P-JTQ Wiring - Power Cord

1. When using EVT-PC4P-JTQ, the supplied 8-pin wire assembly must be first connected to the 8-pin connectors of both EVT-PC4-VT2Q and EVT-PC4P-JTQ, which are located on their respective PC boards, before mounting them to the computer chasis. Please see Fig. 1 & Fig. 5.

IMPORTANT – When using the EVT-PC4P-JTQ, the video signals from the CCTV cameras **MUST** be connected on the terminal blocks of the EVT-PC4P-JTQ side and the video input terminal blocks of the EVT-PC4-VT2Q must not be connected to any video signal. This means that when the EVT-PC4P-JTQ is used the video input must be connected on the EVT-PC4P-JTQ side.

- To minimized voltage drop, use two UTP wire pairs for power transmission. Use the spare blue/blue-white wire pair and brown/brown-white wire pair of the UTP cable for 12 VDC power transmission. Connect one end of the UTP cable to the EVT-PC4P-JTQ's terminal block with "PWR' marking. CORRECT POLARITY MUST BE OBSERVED.
- Plug the included power adaptor into the power jack of the EVT-PC4P-JTQ and plug the power adaptor's power cord into the electrical outlet. Use on-board LED to verify polarity. See fig. 1.
- Check the voltage reading at the end of the power line (camera side) to verify it is correct before connecting it to the CCTV cameras.

WARNING: Using a voltage output in excess of the specified voltage level of a camera may cause damage.

Fig. 1: EVT-PC4-VT2Q and EVT-PC4P-JTQ product overview.



Fig. 2: Installing EVT-PC4-VT2Q and EVT-PC4P-JTQ into the back panel of PC.



Fig. 3: Wiring the EVT-PC4-VT2Q's screwless terminal block.



Figure 4: EVT-PC4-VT2Q wiring diagram.



Figure 5: EVT-PC4-VT2Q and EVT-PC4P-JTQ wiring diagram.

