

Providing Effective Solutions for CCTV Security Systems

Quad Balun – Panel Mounting

Application Note:

Traditionally, coaxial cables such as RG59 are used for connecting the CCTV camera video to the DVR but now it is possible through use of Exico's Passive Video Balun (Coax to Cat 5 Converter) to replace the more expensive coaxial cable with Cat 5 cable for this purpose. To convert from coaxial cable to the newer Cat 5 twisted pair cable is a very easy process and simply involves use of a video balun at the camera end and another video balun at the DVR end and interconnecting the two baluns with Cat 5 cable.

With Cat 5 cabling it is possible to connect the camera up to distances of 400 metres from the DVR with negligible degradation to the image quality.

Use of Quad Video Balun for multi-camera installations over the single video balun will achieve significant cost savings in excess of 60% compared to the coax type of installations.

Use the E10172B in conjunction with the Quad Balun Panels (E10172P / E10172PS) for a 16 port, neat rack mountable solution.

The application for Quad Video Balun and the Balun Panels is shown below.



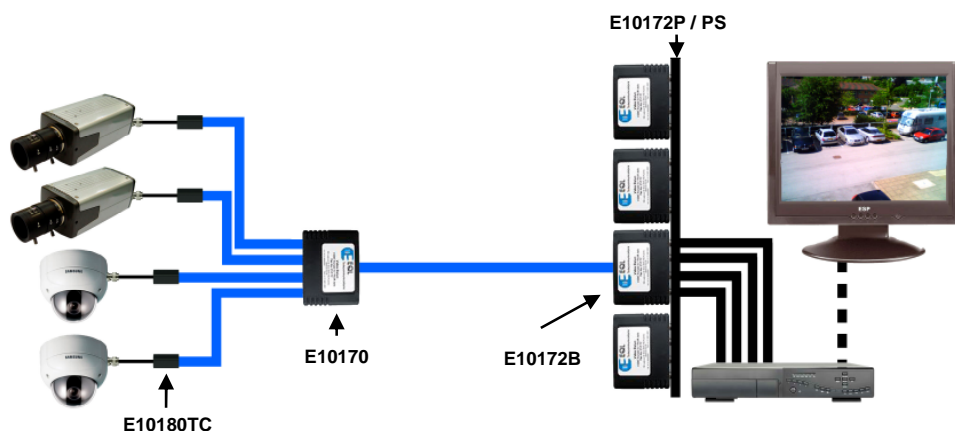
**Quad Video Balun
BNC Female Bulkhead Panel Mount
Part Number: E10172B**



**19" 1RU Quad Video Balun Panel
(Unloaded) Mounts 4 Quads
Part Number: E10172P**



**19" 1RU Quad Video Balun Panel
(Unloaded) with Designation Strip
Part Number: E10172PS**



Specifications:

Bandwidth:	DC to 8MHz
Insertion Loss:	< 2 dB to 8MHz
Impedance:	75 ohm Coaxial, 100 ohm RJ45
Maximum Signal Voltage:	1.1 Vp-p
Return Loss:	> 15 dB to 8 MHz
Cross Talk:	> 50 dB to 8 MHz
Common Mode Rejection:	> 40 dB @ 8 MHz
RJ45 Contacts:	Gold, 50 micro inch
RJ45 Pin Out:	1 (+) , 2 (-) / 3 (+) , 6 (-) / 5 (+) , 4 (-) / 7 (+) , 8 (-)
Temperature Range:	0 to 55 °C operating, 95% Relative Humidity
Casing:	Fire Retardant Plastic ABS UL 94V-0
Maximum Distance:	Color: Up to 400 m Cat 5e B&W: Up to 600 m Cat 5e
Dimensions:	81 x 60 x 24 mm

Note: An Installation Guide for Video Balun installations is available on request. For optimum results the recommendations provided in the guide must be followed.

EQL Teleconnect

Unit 20, 13 Swaffham Road
Minto NSW 2566
Australia

Postal Address:
P.O. Box 351
Minto NSW 2566
Australia

Tel: +61 2 9824 5680
Fax: +61 2 9824 5685
Email: sales@teleconnect.com.au
Web: www.teleconnect.com.au

ABN: 93 098 402 218