

Videoconverter



The devices of the EIVC- series are autonomous industrial video systems for transmission and reception of standard video signals in digitized form over Ethernet. Pictures can view at any authorized pc.

The pictures are enclosed in regular Ethernet frames. The transmitted data are a sequence of separate jpg picture and can be used in security applications. These data can be transported like regular Ethernet data, also routed.

These devices are intended for rail mounting and are equipped with a redundant industrial power supply. For capturing of pictures from a camera, the EIVC-ET is available. To display a picture from a remote located camera, the EIVC-ER is intended. For security sensitive applications a video server with DVR functionality is available.

Technical details:

Mechanical	Compression	
Dimensions: 40*80*90 (WxHxD in mm)	Algorithm:	Motion JPEG-Based algorithm
Weight: 250 g	Standard Mode:	Serial communication, signal encoding, decompression
Temperature: 0°C to +70°C (working range) -25°C to 80°C (storage)	Indications (LED):	Power supply, Video signal, LAN, data transmission
Housing: special housing for DIN-rail mounting	Digitizing:	320x240 lines
Ethernet Interface: 10/100Base-T, RJ-45	Analog Video:	PAL or NTSC, BNC, 1Vpp, 75 Ohm
Power Supply: 8-24V AC/ 10-36V DC, redundant	Serial Interface:	RS-232 (9-Pin Sub-D-connector)
System: Video encoder, Hardware De-compressor, CPU, Ethernet-controller	Picture Frequency:	typical 12 frames/ sec at 20 kB per frame max. 25 frames/ sec at 12 kB per frame 8 frames/ sec at 40 kB frame

Features:

RISC processor-system
 1 x camera input / output (PAL/NTSC standard) and serial interface
 Shock resistant industrial solution
 Hardware compression (MJPEG)
 Rail mounting module with redundant industrial power supply
 Configurable frame and compression rate

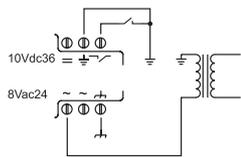
Software:

Visualisation, Control, Storage
 (by using system "CTRLink light" inclusive on cd)
 System parameter:
 Minimum: Windows 95/98/NT, PII 350 MHz, 64 MB recom-
 mended: 1 GHz, 128 MB Ram

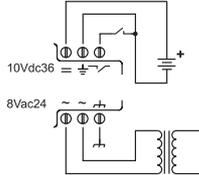
 proNetView (for clients in the network)
 On request Digital Video Recorder / Video Surfer Software

Power Options:

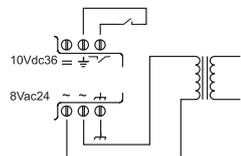
AC POWERED
(grounded secondary)



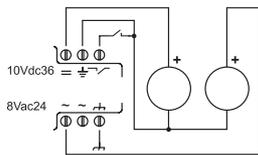
AC POWERED WITH BATTERY BACKUP



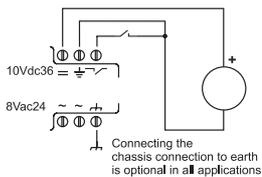
AC POWERED
(ungrounded secondary)



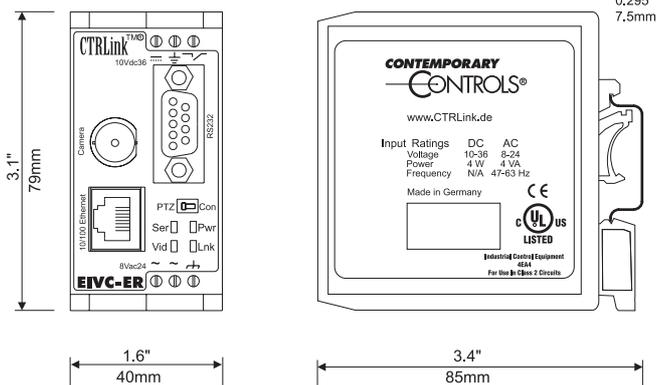
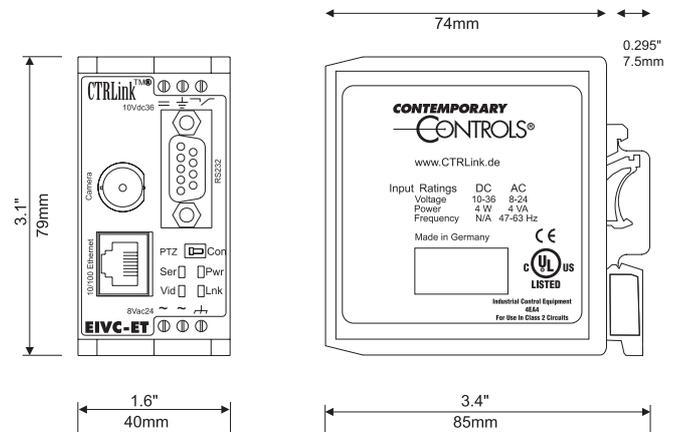
REDUNDANT DC POWERED



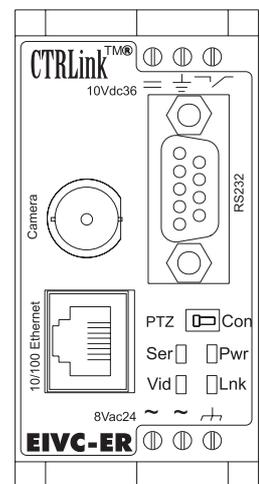
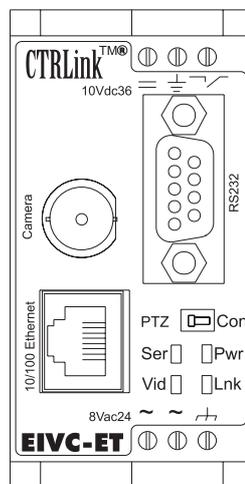
DC POWERED



Mechanical:



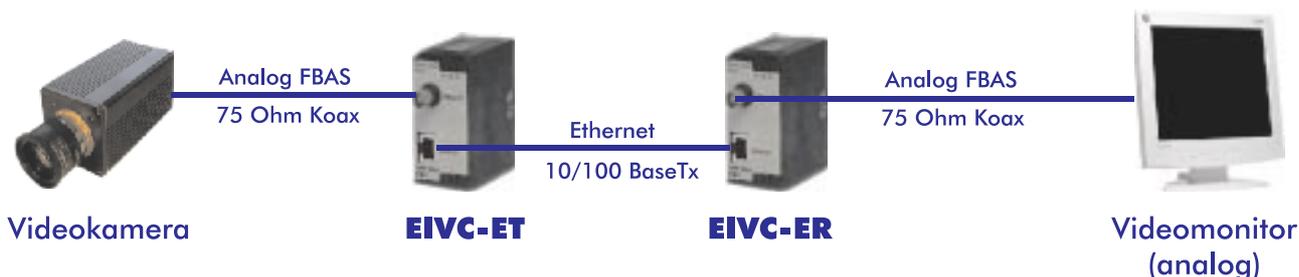
Front View:



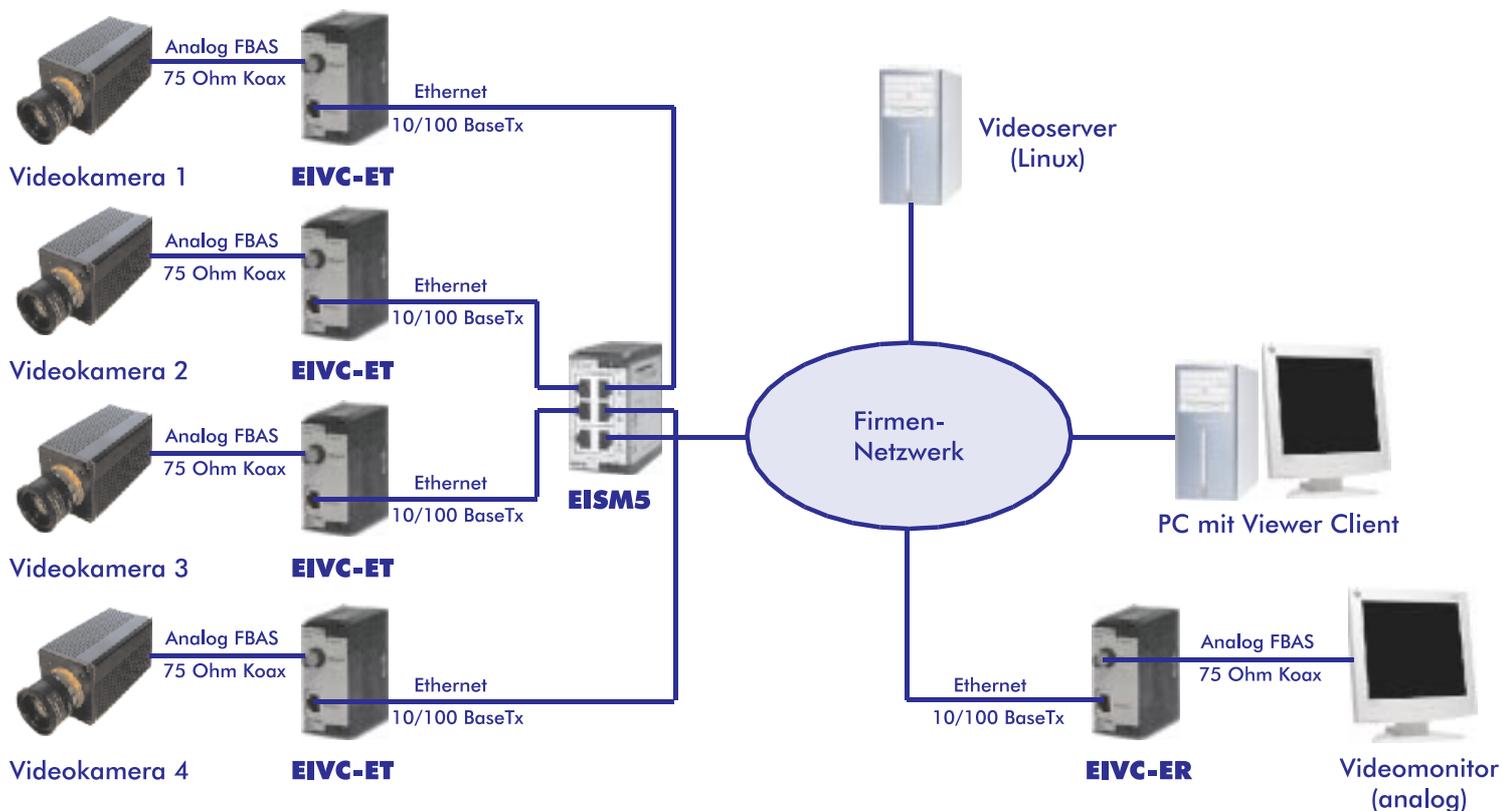
Typical applications:



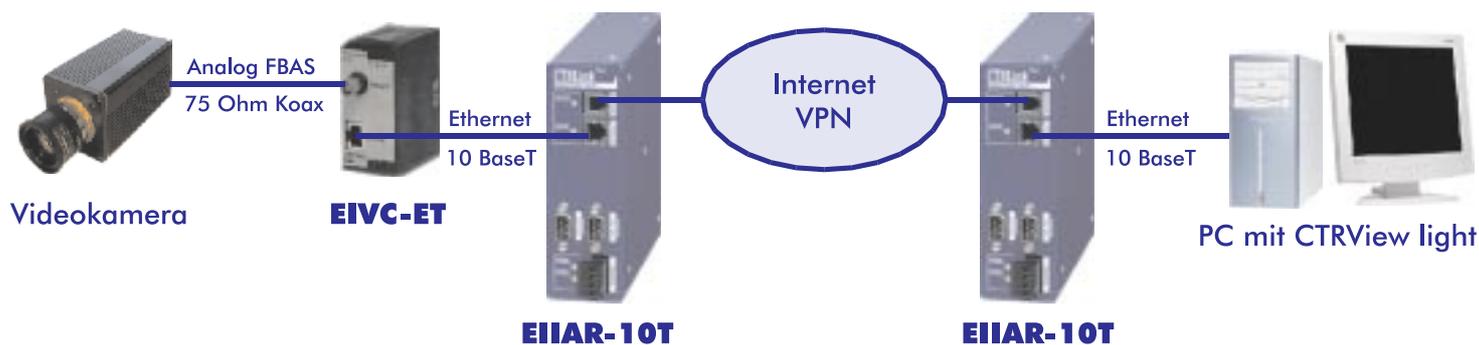
This is the minimal application for the videoconverter. The IVC-ET captures the pictures from the camera via composite video, transports them via Ethernet with 10/100BaseTX to a PC with the CTRLView light software.



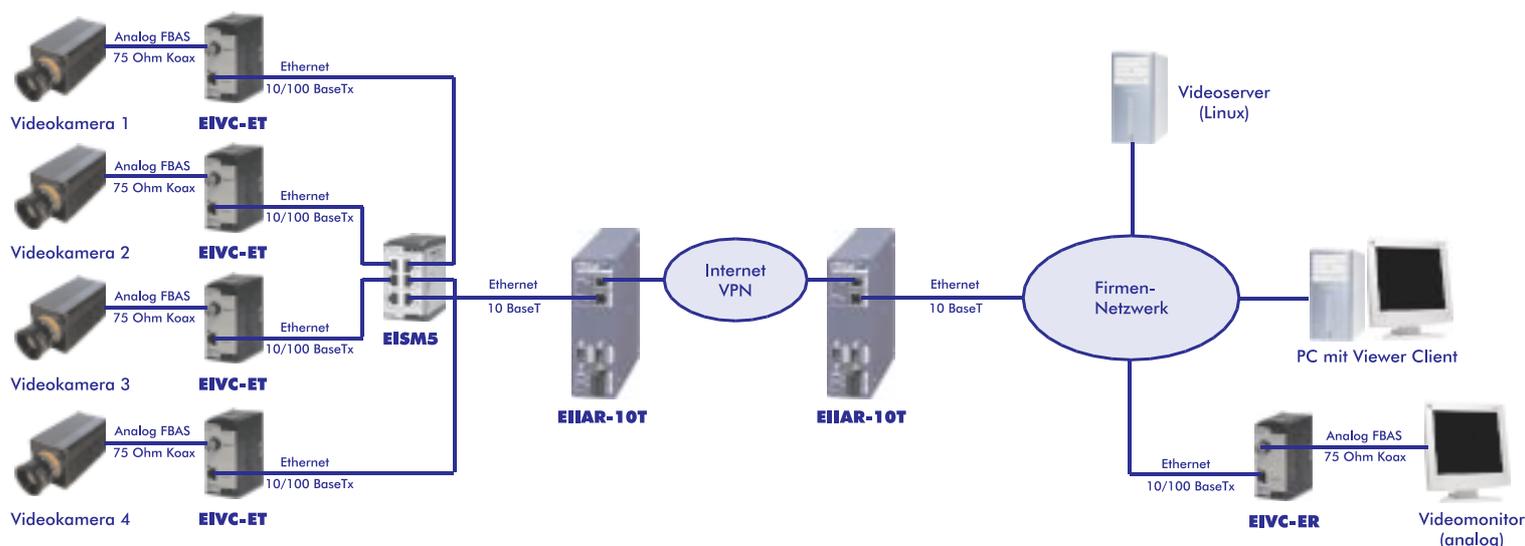
If the user has a video camera and an analogue video monitor; the IVC-ER can be used to convert the digital data signals back into composite video.



This is the most typical application for the videoconverter. Several IVC-ET capture the data from the cameras and send them via Ethernet to the network. The switch makes the data available for the different user in the company network. The data can be saved on a Video Server (with digital Video Recorder Function), the server is function to administrate the different cameras. A PC with Viewer Client can see the pictures from the video server for using an analogue video monitor the data need to be re-converted to composite video by using a IVC-ER.



This is the minimal application for the videoconverter for the remote monitoring. The EIVC-ET captures the pictures from the camera, transports them per Ethernet to a router and then to the internet. At the other end, the incoming data from the internet are received by another router and forwarded to a pc.with CTRLight software. The transmission speed is lower (ca. 1 pic/ sec).



The data can be routed via the internet to use them for remote monitoring. Frame rate is limited by bandwidth of the internet connection.

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