

General

The system is developed for remote-controlled video surveillance. It uses TCP/IP network to transfer compressed video images. Furthermore, the system offers remote control of cameras integrated into the video player application. The system also contains the control of the users' rights and distribution of the video picture to several simultaneous users. Software is used for the compression and decompression algorithms of the video images. Users get video by connecting to the VDCU unit via TCP/IP network. It is possible to change on-line the video resolution and the compression ratio.

Automatic compression ratio

There are two different settings for the transferred image quality :

When the camera is not moving, large resolution and rather small compression ratio is used. This way video gets higher quality but slower refreshing rate.

When the camera is moving, small resolution and high compression ratio is used to make picture refreshing faster.

Quality-box

User can set a different compression ratio for a rectangle defined by mouse. Defined rectangle is then transferred with better quality, when the rest of the picture has lower quality and refreshing rate is still quite high. Quality box can be used for example to find out name of the ship or to recognize the face of the person.

Recording

It is possible to record video in Multistore VDCU. VideoPlayer -program has a function to save still images in JPEG format.

Video Decompression and User Interface

Video is decompressed and displayed with an ordinary Windows PC running VideoPlayer application. No special hardware is needed for decompression.

VideoPlayer -program has functions to select camera, to control camera (with joystick or keypad) and view video from selected camera.

