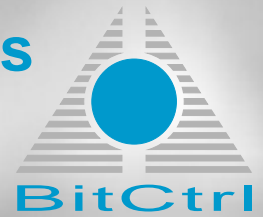


bitcontrol® VidCtrl - Video Devices

High Quality Real-Time Applications with MPEG-2/4 Streams



bitcontrol® VidCtrl is a multi-functional system for recording, transmission and processing of video signals of highest quality within a local network (LAN) or even over the internet (WAN). The system is based on the MPEG compression format, which offers a high quality of video display and processing.

bitcontrol® VidCtrl is modular and comprises of hardware and software components.

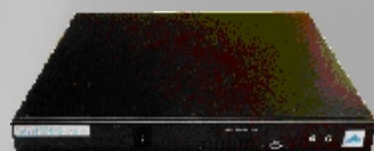
- Components for recording and compression of video signals (real-time MPEG-2/4 encoding)
- Components for transmission and switching of MPEG information streams over the LAN and the internet ("Streaming")
- Components for decoding and processing (Recognition)

The various components can be mixed in many ways, making setup of large networks with many video cameras and monitors possible.



Display of a video stream is accomplished with an MPEG-2/4 software decoder without any specialized hardware. This allows for insertion of additional data like process information, images or other application data into the stream which can then be seen as overlay on the receiver's display. This overlay can also be half-transparent using 7-Bit chroma-keys.

VidCtrl devices fit into 19 inch racks using 1 or 4 height units. Depending on the requirements each device can house 1 to 4 encoder modules with 4 video inputs each.



Encoder / Decoder properties

Video signal	PAL/NTSC
Inputs	max. 4 x 4 BNC
Monitors	max. 2 (SVGA)
MPEG-2/4 outputs	max. 12
MPEG-2/4 inputs	max. 12 (retransmitting)
Streaming rate per channel	64 kBit/s ... 15 Mbit/s
Resolution per channel	160x144 ... 704x576
Picture rate (fps)	25 / 30
Unicast and/or multicast	max. 16 / 16
tcp/ip and udp/ip	yes
Real-time MPEG switching	yes
Auto reconnect	yes
MPEG-2/4 demultiplexer	max. 2
Data stream in MPEG-2/4	Video overlay
Recording (MPG or AVI)	max. 2 channels
Image-in-image view	Option
Quad view (4 streams)	yes
Stretching for monitor wall	2x2, 3x3, 4x4
Freeze frame	yes
Information overlay	Layer
Chroma keying of the overlay	7 Bit
Control overlay	Free design
Telnet interface	yes
Audio reverse channel	H.323