

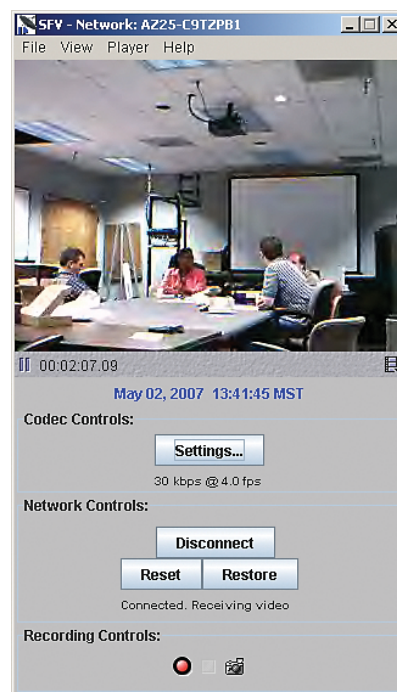
SelectFocusVIDEO™

Ultra-low-bit-rate video compression software

As a major provider of services, solutions, and support to U.S. and foreign governments, General Dynamics C4 Systems has developed SelectFocusVIDEO Ultra-low-bit-rate Video Compression Software for commercial and government users. General Dynamics' SelectFocusVIDEO Compression Software enables the transmission of tactically useful video over ultra-low-bandwidth communication links, such as a single 2.4-kbps Iridium® channel. Our efficient, software-only implementation enables real-time video encoding/decoding on any Windows®/Unix®/Linux-based platform. SelectFocusVIDEO allows on-the-fly adjustment of coding parameters such as bit rate, frame rate, temporal correlation, and single/multiple channel operation, which enables it to adapt to a wide variety of IP-based network configurations.

Features

- Real-time, ultra-low-bit-rate video compression and transmission
- Software-only implementation; Windows®/Unix®/Linux compatible
- Wavelet-based, extreme compression
- Operates over IP-based networks
- Fully adjustable bit rate: 0.5 kbps-20 Mbps
- Fully adjustable frame rate: 0.1 fps-30 fps
- Supports all popular frame sizes
- Automatic bandwidth throttling mechanism adjusts transmission bit rate to maximum sustainable link bandwidth
- Built-in multichannel transmission capability
- Built-in error resilience
- Multicast capability
- Intraframe-only or interframe predictive coding
- Full record/playback modes
- Transcoding capability (ability to decode motion JPEG, MPEG1, MPEG2, MPEG4, H261, H263, H264 formats and re-encode into SelectFocusVIDEO format at reduced resolution, bit rate, and frame rate)
- Seven network transmission modes (UDP/IP, TCP/IP, with/without backchannel, multicast/unicast, multichannel, etc.)
- Automatic client discovery provides automatic identification of and one-click transmission to other SelectFocusVIDEO users
- SelectFocusMESSENGER instant messaging provides real-time, text-based communications and arbitrary file/directory transfer between SelectFocus users across disparate platforms



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