

# STARWORKS-TV

## Multicasting Software

**Multicasts live and stored video streams across Ethernet local area networks or Hughes DirecPC**

**Allows any Video for Windows application to display live video streams**

**Supports industry standards: MPEG, Video for Windows, Indeo, motion JPEG**

**Provides total flexibility for content and quality resolution, and frame rate of multicasts**

**Leverages existing investment in computer networking equipment**

**Supports hundreds of simultaneous Viewers and multiple multicast channels**

**Offers a cost-effective solution with a one-time product fee**

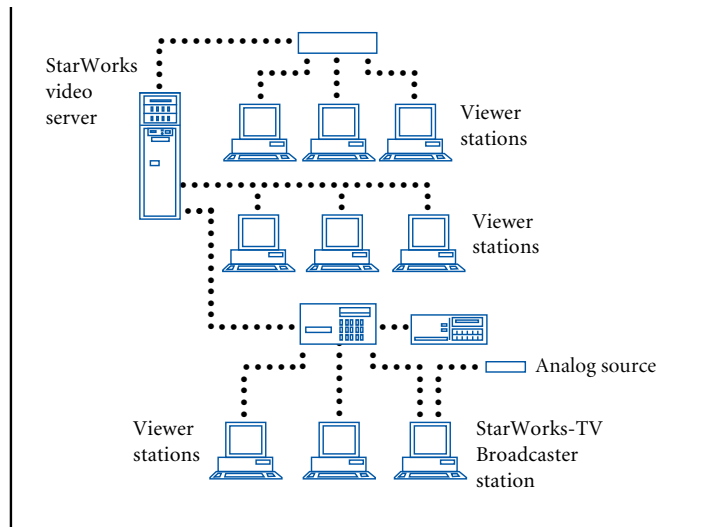
**S**tarWorks-TV™ multicasting software provides ‘one-to-many’ multicasting services over your corporate enterprise network. Together, StarWorks-TV and a StarWorks® video server provide integrated live and stored multicasts over standard Ethernet local area networks or Hughes DirecPC for applications such as: distance learning, remote manufacturing process management, Wall Street live TV news for financial analysts/traders, security/surveillance systems, video conference multicasts, corporate communications, and emergency broadcasts.

StarWorks-TV consists of a Broadcaster application and a Viewer application that turn your LAN-based PC into a virtual TV. Both applications interact with a StarWorks video server. The StarWorks-TV Broadcaster station receives signals from an analog source (e.g., video tape recorder, cable tuner, camera), digitizes the signals, and multicasts them over the network ‘airwaves.’ (Stored digitized files from the StarWorks video server can also be multicast.) Hundreds of corporate Viewer stations — using any Video for Windows-compliant player — can simultaneously tune in to the ‘on-the-air’ channel to view the live multicast, as well as stored video from a StarWorks video server. The StarWorks video server acts as a StarWorks-TV Delivery Manager and handles the network resources, such as bandwidth reservation, network connections, etc. With the StarWorks-TV Viewer application, you can even schedule to record the multicast locally, or to the StarWorks video server.

StarWorks-TV applications support the Video for Windows interface, use industry-standard video formats (Indeo, MPEG, motion JPEG), and take advantage of existing networks. StarWorks-TV also includes tools for multimedia application developers to incorporate live video into their custom applications.



## STARWORKS-TV SPECIFICATIONS



### Video server requirements (Contact your Starlight reseller for configuration requirements)

EISA-based server: i486 EISA, 66 MHz, 24 MB RAM; Adaptec 2740/1740 SCSI disk controller(s) and fast SCSI II disk drives (size and number depend on hours of video, aggregate bandwidth required, and parity option); SMC Elite32 or Elite16 Ethernet adapters; VGA card; monitor; keyboard; floppy disk drive

SPARC-based server: SPARCstation (10, 20) or SPARCserver (10, 20, 1000, 2000) uniprocessor only, Solaris 2.3, 1 MB SuperCache, 128 MB RAM, 120 MB free space in disk partition; Fast SCSI-2 Buffered Ethernet (FSBE/S) interface adapter and 1.05 GB or 2.1 GB Fast SCSI-2 disk drives (size and number depend on hours of video, aggregate bandwidth required, and parity option); SBus Quad Ethernet Controller (SQEC) cards (number depends on number of clients attached to video server and size of video streams played over network); monitor; keyboard; 4 mm DAT, QIC-150 tape drive, or CD-ROM

### Client requirements (Contact your Starlight reseller for configuration requirements)

i486 or Pentium CPU, 25 MHz or higher, 8 MB RAM; MS-DOS 5.0 or higher; Windows 3.1 or higher; Video for Windows 1.1 or higher

Network interface adapter/driver with 4 Mbps (or higher) transfer rate  
Sound card (WAVEIN for Broadcaster, WAVEOUT for Viewer)

For MPEG multicast, FutureTel, Optibase, or Optivision codec; for MPEG playback, Sigma Design RealMagic or Optivision player

To view Indeo format multicast, display hardware with 256 color support  
For Indeo capture, Intel Smart Video Recorder card and driver

For motion JPEG multicast and playback, Diamond VideoStar Pro card and Video for Windows capture driver (for multicast) or codec (for playback driver)

### Network operating systems

Novell NetWare; Microsoft LAN Manager; NFS; Microsoft Windows for Workgroups

### Digital video systems

MPEG, Video for Windows Indeo, and motion JPEG

### Maximum sessions

With 24 MB of RAM in the video server, 20 sessions  
With 32 MB of RAM in the video server, 100 sessions

### Starlight Networks, Inc.

205 Ravendale Drive  
Mountain View, CA 94043  
Phone 415 967-2774  
Fax 415 967-0686  
Home page: <http://www.starlight.com>

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