



## Polycom ViewStation FX

### Unparalleled performance in Video Communications for Large Room Environments



- ▼ TV Quality, 60/50 fields video for NTSC/PAL, at 512 Kbps and above
- ▼ Brings together multiple meeting rooms—integrated multi-point capability enables up to four sites over ISDN or IP
- ▼ Second level cascading capabilities allow for up to 10 video sites and 4 audio sites to be connected in a single call
- ▼ Four monitor support allows each of four endpoints in a multi-point call to be seen on a separate monitor
- ▼ Close Caption feature from the web UI allows users to communicate by typing text that appears at the near and far sites. An industry first!
- ▼ Continuous Presence, a Polycom exclusive capability, allows viewing all multipoint participants at the same time and at full CIF resolution
- ▼ High resolution (1024x768) live graphics support with Visual Concert™ FX
- ▼ Clear 360 degree, full duplex digital audio with noise suppression, switchable echo cancellation and automatic gain control
- ▼ Customized audio—extended audio flexibility via dual microphone pods and line-level audio input for custom microphones/mixers
- ▼ Supports dual pan-tilt-zoom cameras, a VCR and document camera input, including support for the new Visual Concert DC
- ▼ Network flexibility for Quad BRI, PRI T1 and E1, as well as V.35 and LAN networks up to 2 Mbps
- ▼ Streaming capability—embedded streaming feature allows the ViewStation FX to multicast the Video Communication to viewers over IP

**Setting a new standard in video communications.** The ViewStation™ FX group videoconferencing system from Polycom® delivers the highest performance to meet the most demanding video communication needs for conference rooms, boardrooms, classrooms and custom conferencing facilities.

ViewStation FX delivers TV quality video for lifelike conferencing interaction while fully supporting the H.263 video standard and the new 60 fields/ second ITU standard. Additionally, ViewStation FX provides Polycom market-leading audio technology for maximum clarity in large conference rooms by utilizing the G.722.1 industry audio standard for full, rich wide band audio.

ViewStation FX is as powerful as it is easy to use. FX contains an embedded four-port MCU which leads the industry for easy, on-demand multipoint conferencing. Up to four sites can participate at 384 Kbps video for a continuous presence, voice activated or a chair control call (H.320) using the one-button address book dialing. While in a video call, a telephone participant can easily be added. Need to add more video and audio participants, but don't have access to a bridge? No problem. Each of the second level ViewStation FX units in a four site multipoint call can call up to two more video and one audio site. This second level cascading feature means that up to ten total video sites and four total audio sites can participate in the call using the built-in MCU. All these features combine to make the FX a powerful and easy-to-use meeting tool.

**Ultimate ease and flexibility.** Providing the ultimate conferencing flexibility, the ViewStation FX contains many additional ease-of-use features. Use one camera or two to capture a large audience or focus on specific individuals. Stream your videoconference to viewers on the LAN/WAN as easily as placing a call. You can even start and stop the stream remotely by using the Polycom, release 4.0 web browser.

ViewStation FX supports both public and private networks through ISDN PRI, V.35, and Ethernet networks. Make IP calls, connect PCs, and allow Global Management Software access and management through the dual 10/100 Mbps Ethernet ports. With embedded Web capabilities and remote management, IT managers can perform diagnostics and software upgrades.

Whether in the boardroom, conference room or classroom, ViewStation FX offers powerful performance in an easy-to-use set-top system for today's demanding meeting environments.



# ViewStation FX Technical Specifications:

## Standards Supported

ITU-T H.320 (px64); H.323

## Video Standards

H.261, Annex D; H.263 + Annexes: L, F, T, I, J, U, u  
ITU - 60 fields/second

## Polycom Enhanced Technology

TV-quality letterbox video 60 fields/sec NTSC  
TV-quality letterbox video 50 fields/sec PAL  
PVEC - Polycom Video Error Concealment

## Other ITU Supported Standards

H.221 communications  
BONDING, Mode 1  
H.281 far-end camera control  
H.225, H.245

## Video Resolution

QCIF, FCIF, 4CIF, TV-quality wide screen

## Graphics Resolution

### Slide Transmission Format

H.261 Mode: 4 x FCIF  
H.263 Mode: 16 x FCIF

### Local Display Format

1280 x 1024 graphics resolution

## Frame Rate

H.320 Calls: 15fps @ 56-320 Kbps  
H.320 Calls: 30fps @ 336-2 Mbps  
H.323 Calls: 15fps @ 56-320 Kbps  
H.323 Calls: 30fps @ 384-2 Mbps

## Transmission Speed

Max data rate H.320: 2 Mbps  
Max data rate H.323: 2 Mbps

## Multi-Point Calling over BRI PRI or Ethernet (H.320 or H.323)

Local plus three sites @ 384 Kbps  
Local plus two sites @ 512 Kbps  
Cascade (H.320 only) up to ten sites @ up to 384 Kbps plus up to four audio sites

## Video Inputs (NTCS or PAL)

### 2nd Camera

S-Video

### Document Camera

S-Video

### VCR In (for playback)

Composite

## Video Outputs (NTSC or PAL)

### Main Display

S-Video or composite

### 2nd, 3rd, 4th Displays

S-Video

## VGA Out

Standard 15-pin VGA connector  
Displays up to 1280 x 1024

## VCR Out (recording)

Composite

## Main Monitor Auto-PIP system

Auto-on, auto-swap, auto-off

## Integrated Main Camera - Sony EVI-10

### Lens

65° field of view  
12 x Zoom; f=4.2 to 42 mm  
F=1.85 to 2.9 mm  
Auto focus

### White Balance

Automatic

## Camera Presets

10 presets local camera  
10 preset positions far end camera

## Tracking Technique

Voice tracking or track to presets

## Audio Standards

G.728, G.722, G.711, G.722.1

## Full-Duplex Digital Audio

Instant adaptation echo cancellation  
Automatic gain control  
Automatic noise suppression

## Audio Inputs/Outputs

### Polycom Mic Pod

RJ-9

### Line Level Input

RCA

### Main Audio Out, VCR In and Out

RCA L&R

## Digital Microphone Pod

Coverage 360°

Microphones have 3 hypercardioid elements  
Omni-directional coverage  
Includes 2 Mic Pods

## Integrated Speakerphone

(where approved)

Third-party audio add-in  
Point to point or multipoint calls

## Diagnostics and Remote Management

Extensive diagnostics and software upgrades via PC,  
LAN or in a video call

Integrated Web interface for direct management  
Supports Polycom Global Management System,<sup>™</sup>  
Global Address Book and SNMP  
Supports Polycom OneDial<sup>™</sup>

## Ethernet/Internet/Intranet Connectivity

Supports—TCP/IP, DNS, WINS, SNMP, DHCP, ARP,  
WWW, ftp, telnet  
(2) 10/100 Mbps Ethernet ports  
T.120 interface with ShowStation<sup>®</sup> IP, WebStation<sup>™</sup> and  
Microsoft<sup>®</sup> NetMeeting

## Collaboration Solutions

PC Presents<sup>™</sup> for Microsoft<sup>®</sup> PowerPoint<sup>®</sup>  
Polycom SNAP for high resolution graphics capture  
Visual Concert FX  
Visual Concert DC

## User Interface

Hand-held, ergonomically designed remote control  
Infrared onscreen graphical user interface

## ARENA<sup>™</sup> API

Enables custom integration w/remote devices such as  
touch screen panels through RS-323 or TelNet inter-  
faces

## Telnet

## Web Browser Interface

Microsoft Internet Explorer or Netscape Navigator  
Closed Caption support three line text

## Streaming Capabilities

Live video stream multicast to Cisco<sup>®</sup> IP/TV<sup>™</sup>  
viewer or Apple<sup>®</sup> Quicktime  
Control start and stop of video stream through Polycom  
web browser

## Data Port

RS-232 Control port/data communications port  
(1200 baud to 115K baud asynchronous)

## Network Interfaces (optional)

PRI (Primary Rate Interface) T1  
PRI E1  
V.35/RS449; support direct connect or RS-366 dialing  
Supports H.331 broadcast mode  
Quad BRI (Basic Rate Interface)

## Electrical

Auto-sense power supply  
Operating voltage/power  
90-260 VAC, 47-63 Hz/40 watts

## Physical

### Dimensions

33cm x 20cm x 15cm

### Weight

2.7kg (6lbs)

## Languages Supported

English, French, German, Spanish, Italian, Portuguese,  
Norwegian, Chinese, Japanese

## Warranty

Three year parts and labor



**Global Management System<sup>™</sup>** is an optional, complete web-based management system for your video communication network. It will greatly enhance the experience of video communication users by increasing their first call success rate. It will do this with a much smaller support organization than would otherwise be possible.

The key features are:

- ◆ Manage and monitor all your video endpoints with server initiated remote alerts
- ◆ Provide a global dialing directory for all Polycom endpoint users
- ◆ Keep ViewStation settings and software updated remotely from a server
- ◆ Track all calls through CDR history and use for billing or department charge-back



Polycom, Inc. 1565 Barber Lane Milpitas, CA 95035  
1.800.POLYCOM • 1.408.526.9000 • Fax 1.408.526.9100