

# Polycom® ViewStation® FX

## Unparalleled performance in Video Communications for Large Room Environments

### BENEFITS

- **Brings together multiple meeting rooms**—integrated multi-point capability and new *MPPPlus* feature, Mixed Protocol Dialing, enables up to four sites over IP and ISDN in the same call
- **Dial-In Calling**—another *MPPPlus* feature, allows new sites to join a call already in progress by dialing into the host site
- **TV Quality, 60/50 fields video for NTSC/PAL**—at 512 Kbps and above
- **Four monitor support**—allows each of four endpoints in a multipoint call to be seen on a separate monitor
- **High resolution (1024x768) live graphics support**—with Visual Concert™ FX
- **Second level cascading capabilities**—allow for up to 10 video sites and 4 audio sites to be connected in a single call
- **Streaming capability**—embedded streaming feature allows the ViewStation FX to multicast the Video Communication to viewers over IP
- **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
- **Continuous Presence**—a Polycom exclusive capability, allows viewing all multipoint participants at the same time and at full CIF resolution
- **Supports dual pan-tilt-zoom cameras, a VCR and document camera input**—including support for the new Visual Concert DC
- **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!
- **Network flexibility**—for Quad BRI, PRI T1 and E1 as well as V.35 and LAN networks up to 2 Mbps

**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-point MCU which leads the industry for easy, on-demand multipoint conferencing. Up to four sites can participate (over IP and ISDN in the same call) at 384 Kbps video for a continuous presence, voice activated or chair control call using the one-button address book dialing. While in a video call, other endpoints (IP, ISDN, or POTS) can dial into the call or easily be added by a call from the host. 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 conference can call up to two more video and one audio site. This cascading feature means that up to ten total video sites and four 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 video-conference 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

- 15fps @ 56-320 Kbps
- 30fps @ 336 Kbps-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

### MPPlus Calling

#### Mixed Protocol Dialing

- Connect four endpoints (H.320 and/or H.323) through the internal MCU

#### Dial-In Calling

- H.320 and/or H.323 sites can dial into existing call

### Video Inputs (NTSC 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

#### SXGA Out

- Up to 1280 x 1024

### 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
- Omn-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,™
- Global Address Book and SNMP
- Supports Polycom OneDial™
- Supports PathNavigator

### 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® IP, WebStation™ and Microsoft® NetMeeting

### Collaboration Solutions

- PC Presents™ for Microsoft® PowerPoint®
- Polycom SNAP for high resolution graphics capture
- Visual Concert FX
- Visual Concert DC

### User Interface

- Hand-held, ergonomically designed remote control
- Onscreen graphical user interface

### ARENA™ API

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

### Telnet

### Web Browser Interface

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

## Global Management System

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

### Streaming Capabilities

- Live video stream multicast to Apple® 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
- Operating temperature: 0°C to 35°C
- Humidity: 10% to 85% R.H. non-condensing

### 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

### Certification

- AAVID certification

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