



## Polycom VS4000

Highest performance  
videoconferencing codec  
for custom rooms



- ▼ Highest video quality—delivers near-TV video quality at 30 frames per second
- ▼ Clearest sound—full-duplex digital audio with noise suppression and echo cancellation ensures every word is heard
- ▼ Customized audio—extended audio flexibility via dual microphone pods and line-level audio input for custom microphones/mixers
- ▼ Multi-application friendly—full complement of flexible A/V inputs and outputs supports custom applications
- ▼ Extensive connectivity—handles up to 2 Mbps network speeds with built-in 10/100 Ethernet hub and PRI, V.35 and LAN options
- ▼ Web-ready—embedded streaming to capture and send meetings to anyone equipped with a Web browser
- ▼ Maximum control—multiple data/control ports allow control by AMX or Creston control panels and support for external camera control
- ▼ Easy-install—integrates into your installation easily with standard 19-inch rack-mount chassis

**Top-of-the-line quality and innovation—now available for your custom installations.** Now board-rooms, classrooms and auditoriums can experience industry-leading Polycom quality with the VS4000 system, delivering the most feature-rich, high-performance videoconferencing solution available for custom room deployments.

Housed in an easy-to-integrate, rack-mount chassis, the VS4000 delivers full-motion, near-TV quality video with 60 fields-per-second coding for lifelike conferencing interaction, while fully supporting the H.263+ video standard. The VS4000 system includes Polycom's market-leading audio technology, and includes dual microphone pods, line-level audio input for custom mic mixers, and software-based on/off and echo cancellation control.

To facilitate custom room integration, the VS4000 offers robust input/output and control ports that enable external RS-232 control, multiple cameras, display devices, microphone receivers, IR receivers, and data devices.

**Broad connectivity.** The VS4000 supports both public and private networks through PRI, V.35 and Ethernet networks. The embedded 10/100 Ethernet hub and V.35 or PRI option promote networking and conferencing flexibility for H.320 and H.323 calls. With embedded Web capabilities and remote management, IT managers can perform diagnostics and software upgrades.

Leading the industry in innovation, the VS4000 includes easy, on-demand multipoint conferencing up to four sites at 384 kbps with continuous presence. Voice-activated switching, chair control and one-button address-book dialing make the VS4000 a powerful and easy-to-use meeting tool. The VS4000 can natively stream meetings over your intranet or the Internet to broaden the audience to anyone in the world with a browser-equipped PC.

Make the right choice with your custom room system. Step up to the VS4000 for powerful performance and flexibility in an easy-to-implement rack-mount codec.



## Example Applications

The VS4000 is ideal for a wide variety of applications in education and business.

### Education/Distance Learning/Corporate Training

- ▼ K-12 multimedia rooms to originate and receive live and recorded classes
- ▼ College lecture halls, to broadcast and/or record lectures
- ▼ Laboratories to broadcast and/or record procedures and experiments
- ▼ Educational broadcast and post production facilities for creation of distance learning materials
- ▼ Rural and metropolitan area training centers for training of displaced workforces
- ▼ Corporate training rooms and training material production

### Manufacturing

- ▼ Demo, training, engineering and production collaboration rooms large enough to hold a car, aircraft engine or other large assembly, or small enough to show tiny electronic components
- ▼ Plant floor visual inspection systems for resolution of discrepant materials, problems with remote vendors, or assembly problems with engineering
- ▼ Integrate with wireless or tethered video equipment, even head-mounted cameras, for "in the bird" aerospace problem solving

### Corporate Communications

- ▼ Originate Web broadcasts of earnings announcements, acquisitions and divestitures
- ▼ TV quality participation in remote sales presentations, including virtual plant/facility tours for remote viewers
- ▼ Conduct regular "virtual town meetings" to maintain corporate culture

### Financial Market Communications

- ▼ Live broadcast of remote trading floor to support trading
- ▼ Live financial analyst feeds to broadcast TV studios

## VS4000 Technical Specifications

### Standards Supported

ITU-T H.320 (px64);H.323  
Near-TV video quality (60 fields)

### Video

H.261, Annex D  
H.263+, Annexes L,F,T,I,J,u

### Audio

G.728, G.722, G.711  
Polycom Acoustic Plus 716

### Communications

H.221

### Display

#### Video Resolution

H.261, H.263+ Mode: FCIF 352x288

#### Near-TV LetterBox

512x320 (16x9 aspect ratio)

#### Near-TV Full Screen

448x448 (4x3 aspect ratio)

### Graphics Resolution

#### Slide Transmission Format

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

#### Local Display Format

XGA

#### Graphic Image Capture

JPEG via Web browser or  
PolySnap Screen Capture Program

### Frame Rate

H.320 Calls: 15fps @ 56-320 kbps  
H.320 Calls: 30fps @ 336-2 Mbps  
H.323 Calls: 15 fps @ 64-320 kbps  
H.323 Calls: 30 fps @ 384-2 Mbps

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

Local plus three sites @ 384 kbps  
Local plus two sites @ 512 kbps

### Video Inputs (NTCS or PAL)

3 S-Video or 3 composite  
1 composite for VCR (playback)

### Video Outputs (NTSC or PAL)

#### 1st – 3rd monitors

S-Video and composite

#### 4th monitor

S-Video or VGA

#### VCR Out (recording)

Composite

### Main Monitor Auto-PIP System

Auto-on, auto-swap, auto-off

### Full-Duplex Digital Audio

Instant adaptation echo cancellation  
Automatic gain control  
Automatic noise suppression

### Audio Input

Polycom MIC for 2 digital microphones  
Line-Level (RCA) unbalanced  
VCR (Right & Left)  
Analog phone (RJ-9) connector

### Audio Output

2 Line-level (RCA)  
2 VCR (RCA)

### Digital Microphone Pod

Coverage 360°  
Microphones have 3 hypercardioid elements  
Omni-directional coverage

### Integrated Speakerphone (where approved)

Third-party audio add-in

### Infrared (IR)

Integrated front window plus remote IR receiver  
and cable

### Remote Management

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

### Ethernet/Internet/Intranet Connectivity

Supports TCP/IP, DNS, WINS,  
SNMP, DHCP, ARP, WWW, ftp, telnet  
10/100Mbps Ethernet Hub  
T.120 Interface with ShowStation, IP, WebStation,  
and NetMeeting

### Integrated Presentation System

#### Applications Supported

Microsoft PowerPoint and NetMeeting

### Streaming Capabilities

Live video stream multicast to Cisco IP viewer  
StreamStation (optional) for storage, archival and  
Real Networks G2 player

### Data Ports

2 RS-232 camera control (9-pin)  
RS-232 up to 56 Kbps

### Network Interfaces

PRI (Primary Rate Interface) ISDN  
V.35/RS-449: Supports direct connect or  
RS-366 dialing

### Electrical

Auto-sense power supply  
Operating voltage/power  
90-260 VAC, 47-63Hz/ 60 watts

### Physical

2 U 19" chassis  
1.73" (4.39cm) x 17.4" (44.19cm) x 9.25"  
(23.5cm)

### Languages Supported

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

### Warranty

One year parts and labor



**POLYCOM®**  
The new tools of teamwork.



Polycom, Inc. 2584 Junction Ave San Jose, CA 95134  
1.800.POLYCOM • 1.408.526.9000 • Fax 1.408.526.9100

[www.polycom.com](http://www.polycom.com)