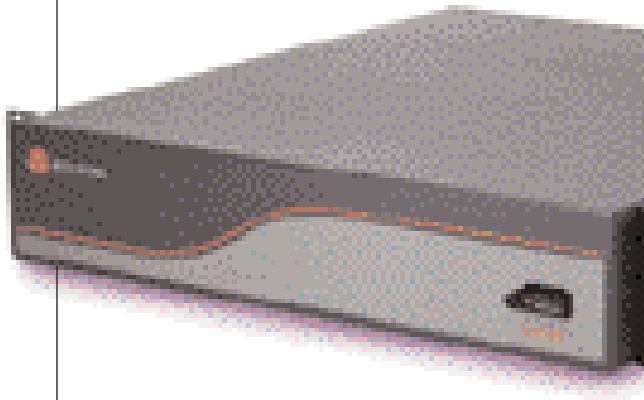




Polycom VS4000

Highest performance
videoconferencing codec
for custom rooms



- ▼ **Industry-leading 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 at 384 Kbps or three sites at 512 Kbps on H.320 or H.323 calls**
- ▼ **Continuous Presence, a Polycom exclusive capability, allows viewing all multipoint participants at the same time and at full CIF resolution**
- ▼ **Industry's highest resolution (1280x1024) graphics support**
- ▼ **Clear full-duplex digital audio with noise suppression and switchable echo cancellation**
- ▼ **Supports two external dual pan-tilt-zoom cameras plus document camera and VCR**
- ▼ **A full compliment of flexible A/V inputs and output support for custom integration**
- ▼ **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 VS4000 to multicast the Video Communication to viewers over IP**
- ▼ **Standard three year warranty**

Top-of-the-line quality and innovation—now available for your custom installations. Now boardrooms, 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, broadcast-TV-mode, video quality 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 promotes 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 to up to four sites at 384 Kbps with Polycom's exclusive continuous presence. Voice-activated switching, chair control and one-button address-book dialing makes the VS4000 a powerful and easy-to-use meeting tool. An audio call can even be brought into the MP conference allowing travelling users to participate aurally.

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 business and education.

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

Education/Distance Learning/Corporate Training

- ▼ Corporate training rooms and training material production
- ▼ 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

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

Financial Market Communications

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

Government

- ▼ Distance learning for federal applications
- ▼ NATO Standard Crypto-Resync Support
- ▼ Command Center quality video communication of XGA stills
- ▼ Emergency and non-emergency Field Deployment Communication
- ▼ TV quality, 30 fps video for executive presentations

VS4000 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

Other ITU Supported Standards

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

Video Resolution

QCIF, FCIF, 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

Graphic Image Capture

JPEG via Browser
VGA-IN with optional scan converter

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 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 10 sites up to 384 Kbps

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 Display

S-Video

VCR Out (recording)

Composite

XVGA Out

Up to 1280 x 1024

Main Monitor Auto-PIP System

Auto-on, auto-swap, auto-off

Camera Presets

External Sony EVI-D30/31 camera
10 presets local camera or far end camera

Audio Standards

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

Full-Duplex Digital Audio

Instant adaptation echo cancellation
Automatic gain control
Automatic noise suppression

Audio Inputs/Outputs

Polycom Mic Pod

RJ9

Line Level Input

RCA (unbalanced)

Main Audio Out, VCR In and Out

RCA L&R

Digital Microphone Pod

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

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™ and Global Address Book

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

Web Conferencing

Integrated presentation system supports Microsoft® PowerPoint®
Polycom SNAP for high resolution graphics capture

User Interface

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

Enhanced API

Supports AMX and Crestron panels through RS-232 interface

Telnet

Web Browser Interface

Microsoft Internet Explorer or Netscape Navigator
CC or Closed Caption, three lines of text

Streaming Capabilities

Live video stream multicast to Cisco® IP/TV™ viewer or Apple® Quicktime.
StreamStation (optional) for storage, archival and Real Networks G2 player

Data Port

RS-232 Control port/data communications port
(9600 baud to 115K baud asynchronous)

Network Interfaces (optional)

PRI (Primary Rate Interface) T1
PRI E1
V.35/RS449; supports 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

18.38in x 17.25in x 3.47in (L x W x H)
(46.7cm x 43.8cm x 8.8cm)

Weight

4.7kg (10lbs)

Languages Supported

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

Warranty

Three year parts and labor



Tel: +44 (0)1865 335500 Fax: +44 (0)1865 335501

www.polycom.com