Vidyo
Personal Telepresence

VidyoRoom™ HD Series

Make the world your conference room

Step inside a conference room outfitted with a VidyoRoom™ system and experience video conferencing with natural quality, simplicity and interoperability that's light-years ahead of traditional room systems.

Get exceptional picture quality with up to 1080p at 30fps	Launch a multipoint session with one-click simplicity	Integrate easily with a full range of endpoints and network types

Room systems that go with the flow of today's workplace

The VidyoRoom™ HD Series combines telepresence-quality multipoint video conferencing with flexibility, performance and cost advantages so you can take collaboration to a whole new level.

VidyoRoom is an integrated endpoint of our Vidyo™ Conferencing System, a software-based platform that takes advantage of our patented Adaptive Video Layering™ and H.264 Scalable Video Coding to deliver telepresence-quality video experiences in a way that no one else can. We eliminate the performance limitations and high cost of multipoint transcoders and dedicated QoS networks, and make video conferencing a more natural and productive extension of your organization.

Only Vidyo offers the lowest latency, highest quality video, with dynamic rate and resolution matching to each individual endpoint in the conference. We also deliver the industry's highest level of error resiliency with the convenience of using the Internet and everyday LTE and 3G/4G wireless networks.

VidyoRoom works seamlessly with VidyoMobile™, VidyoDesktop™ and Vidyo-Panorama™ endpoints, as well as H.323 and SIP-based endpoints via VidyoGateway™, to connect with anyone, anywhere using off-the-shelf hardware, camera and audio equipment.

The VidyoRoom system is easy to configure and use, with multiple layouts for video display including any combination of active speaker, continuous presence, and data sharing. Individual participants can change their preferred layouts at any time during a conference. Flexible conference control options are a snap using either web-based VidyoRemote™ software or a standard infrared remote control device. Support for far-end camera control from other VidyoRoom and VidyoDesktop systems enables remote participants to control what they see as if they were present in the meeting room.

When you're ready to collaborate in the cloud, the VidyoRouter™ architecture can be deployed on a private, public or blended cloud. The Vidyo™ Conferencing infrastructure is transparent to your end users, and you can reap the rewards of traffic localization, inherent firewall traversal, and scalability to thousands of concurrent multipoint connections in a very cost-effective way.

Key features

Video Performance

- Multipoint conferencing with PSTN-like imperceptible latency
- Network error concealment – optimal performance without QoS

Intuitive User Interface

- One-click call initiation
- Infrared remote and keyboard/mouse control and VidyoRemote touch screen tablet controller options
- Multi-tap text entry on remote control keypad
- On-screen keyboard for directory searches
- Dialpad for DTMF signaling (to legacy and voice endpoints)

- XML API for 3rd party control system integration (Crestron, AMX)
- Full and automatic integration with the VidyoPortal™ user's database

Flexible Conferencing Options

- Intuitive presence icons indicate status of other users on the system
- Call setup actions are context-aware and based upon status of selected contacts
- Configure date/time via web-based interface
- Auto- or manually select number of participants to be viewed
- Local preview toggle

Data Sharing
- Participants can toggle among shared windows (concurrent sharing)
- Laptop screen share via optional VGA input
- Auto-share when PC content is detected

Audio Controls
- Adjust speaker volume and mute/unmute
- Adjust mic gain and mute/unmute

Camera Controls
- Video privacy mode
- Pan, tilt and zoom via remote control
- Advanced far-end camera control

Security & Network Features
- Media Encryption: Optional 128bit AES
- Signal Encryption: Optional HTTPS

Administration & Maintenance
- Web-based administration for remote access and configuration
- Automatic software updates, downloadable from VidyoPortal
- Conference moderation via VidyoPortal
- SNMP (MIB II) enabled elements

Capabilities comparison

	HD-220	HD-110	HD-100	HD-50
Participant Video (Transmitted)				
1080p @ 30 fps	•	•		
1080p @ 15 fps	•	•	•	
720p @ 60 fps	•	•		
720p @ 30 fps	•	•	•	•
540p @ 30 fps	•	•	•	•
360p @ 30 fps	•	•	•	•
Participant Video (Received)				
1080p @ 30 fps	• Dual Monitor	•	•	•
720p @ 60 fps	• Dual Monitor	•	•	•
720p @ 30 fps	• Dual Monitor	•	•	•
Data Rates				
Maximum Transmitted	4 Mbps	4 Mbps	2 Mbps	2 Mbps
Maximum Received	8 Mbps	8 Mbps	6 Mbps	4 Mbps
Camera Support				
Professional PTZ (Pan Tilt Zoom)	•	•	•	
USB Webcam			•	•
Display Modes				
Single-Screen Modes • Toggle between continuous presence and active speaker views • Multiple layouts to display participants and shared content	•	•	•	•
Dual-Screen (1x Video + 1x Content) • Data full screen on the second screen	•	•	•	•
Dual-Screen (2x Video) • Active speaker on screen 1 with continuous presence video on screen 2 • Continuous presence video on both screens	•			

Specifications	HD-220 and HD-110	HD-100	HD-50
Video Standards	**Native:** H.264 SVC **Via VidyoGateway™:** H.263, H.263+, H.264 AVC		
Audio Standards	**Native:** SPEEX Wideband Audio, up to 32 Khz sampling rate **Via VidyoGateway:** G.711, G.722		
Live Resolutions (Transmitted)	**Native:** 1080p30, 1080p15*, 720p60, 720p30, 540p30, 450p30, 360p30 **Via VidyoGateway:** QCIF, CIF, SIF, 4CIF, 4SIF, 720p30	**Native:** 1080p15*, 720p30, 540p30, 450p30, 360p30 **Via VidyoGateway:** QCIF, CIF, SIF, 4CIF, 4SIF, 720p30	**Native:** 720p30, 540p30, 450p30, 360p30 **Via VidyoGateway:** QCIF, CIF, SIF, 4CIF, 4SIF, 720p30
Live Resolutions (Received)	**Native:** 1080p30, 1080p15*, 720p60, 720p30, 540p30, 450p30, 360p30 **Via VidyoGateway:** QCIF, CIF, SIF, 4CIF, 4SIF, 720p30	**Native:** 1080p30, 1080p15*, 720p60, 720p30, 540p30, 450p30, 360p30 **Via VidyoGateway:** QCIF, CIF, SIF, 4CIF, 4SIF, 720p30	**Native:** 1080p30, 720p30, 540p30, 450p30, 360p30 **Via VidyoGateway:** QCIF, CIF, SIF, 4CIF, 4SIF, 720p30
Max Data Rate	**Transmit:** 4Mbps **Receive:** 8Mbps	**Transmit:** 2Mbps **Receive:** 6Mbps	**Transmit:** 2Mbps **Receive:** 6Mbps
Application Sharing Resolution	Up to QSXGA (fitted to screen resolution)		
Video Outputs	2x DisplayPort (DisplayPort to DVI converters included)	1x HDMI for Main Monitor 1x VGA for Secondary Monitor	1x HDMI for Main Monitor 1x VGA for Secondary Monitor
Camera In	1x DVI	1x DVI	1x USB
Camera Control	1 x RS-232 (through supplied USB adapter)	1 x RS-232 (through supplied USB adapter)	N/A
Audio Inputs/Outputs	1 x 3.5mm Stereo Jack; USB	1 x 3.5mm Stereo Jack; USB	1 x 3.5mm Stereo Jack; USB
USB 2.0 Ports	6	5	5
Signaling Protocols	**Native:** EMCP, SCIP **Via VidyoGateway:** H.323, SIP		
Encryption	**Native:** AES 128 Bit, TLS, SRTP, HTTPS **Via VidyoGateway:** H.235 over H.323		
Centralized Configuration and Management	VidyoRoom™ Appliances are configured and managed by the VidyoPortal™		
Monitoring	SNMP		
Network Interface	1 x Gigabit Ethernet. Supports 10 BASE-T, 100 BASE-TX, & 1000 BASE-T, RJ45 outputs		
Languages	English, French, German, Italian, Japanese, Korean, Portuguese, Simplified or Traditional Chinese, Spanish, Finnish, Thai		
Power Supply	Auto-switching 300W AC to DC power supply w/ PFC 100 - 240V, 50 - 60Hz, 4 - 2Amp		
Recommended Camera	Sony EVI-HD7V (provides 1080p @ 30fps) *Preferred* Sony EVI-HD3V (provides 720p @ 60fps) Minrray VHD910 (provides 1080p @ 30fps)	Sony EVI-HD3V (with DVI interface) *Preferred* Sony EVI-HD1 (with SDI to HDMI Converter) Minrray VHD910 (provides 720p @ 30fps)	Logitech B910/C910 (provides 720p @ 30fps) *Preferred* Logitech Quickcam Pro 9000 Logitech Orbit/Sphere
Recommended Speaker Phone	Konftel 300; ClearOne Chat 150	ClearOne Chat 150	ClearOne Chat 150
Operating Temperature Range	10 to 35°C (50 to 95°F)		
Non-Operating Temperature Range	-40 to 70°C (-40 to 158°F)		
Humidity Range	8% to 90% (non-condensing)		
Non-Operating Humidity Range	5% to 95% (non-condensing)		
Regulatory	**EMI/EMC:** EN55022, EN55024, FCC, VCCI, Australia/New Zealand, MIC (Korea) **Safety:** USA: TUV certified, FCC; Canada: TUV certified; Europe/CE Mark EN 60950/IEC 60950-Compliant; China: CCC Certification **Environmental:** RoHS compliant	**EMI/EMC:** EN55022, EN55024, FCC, VCCI, Australia/New Zealand, MIC (Korea) **Safety:** USA: TUV certified, FCC; Canada: TUV certified; Europe/CE Mark EN 60950/IEC 60950-Compliant; China: CCC Certification **Environmental:** RoHS compliant	**EMI/EMC:** EN55022, EN55024, FCC, VCCI, Australia/New Zealand, MIC (Korea) **Safety:** USA: TUV certified, FCC; Canada: TUV certified; Europe/CE Mark EN 60950/IEC 60950-Compliant; China: CCC Certification **Environmental:** RoHS compliant
Dimensions	Height: 14.56" (370mm) Width: 3.44" (87.4mm) Depth: 12.59" (320mm) Gross Weight: 13.0 lbs (5.89kg)	Height: 13" (330mm) Width: 3.5" (89mm) Depth: 12.75" (324mm) Gross Weight: 10 lbs (4.53 kg)	Height: 13" (330mm) Width: 3.5" (89mm) Depth: 12.75" (324mm) Gross Weight: 10 lbs (4.53 kg)