# 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 to take collaboration to a whole new level.**

VidyoRoom is an integrated endpoint of our VidyoConferencing™ 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 with VidyoMobile™, VidyoDesktop™ and VidyoPanorama™ endpoints, as well as H.323 and SIP-based endpoints via VidyoGateway™ or the free VidyoWay™ interconnectivity service. You can 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 VidyoConferencing 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

- Up to 1080p30 resolution
- Multiple active speaker and continuous presence layouts accommodate large and small conferences
- Display up to 16 participants in continuous presence
- Multipoint conferencing with imperceptible latency
- Network error concealment – optimal performance without QoS-enhanced links
- Sustains conferences even during periods of high packet loss (up to 20%)

## Low Cost of Ownership

- No extra fees or licenses for HD, dual-screen and multipoint features
- HD quality over low-bandwidth connections (as low as 384 Kbps)
- Every VidyoRoom system includes a dedicated VidyoLine™ license so there's no need to "ration" conferencing resources

## Intuitive User Interface

- One-click call initiation
- Software and hardware remote control options
- On-screen keyboard for directory searches
- Dialpad for DTMF signaling (to legacy and voice endpoints)

## Flexible Conferencing Options

- Presence icons indicate status of other users on the system
- Host and join conferences with mobile, desktop and room-based endpoints
- Conference with H.323 and SIP based endpoints via VidyoGateway or tthrough the free VidyoWay interconnectivity service
- Local layout control offers automatic and user-selectable views of participants and data in continuous presence and active speaker modes

## Data Sharing

- Flexible data sharing layouts for both single and dual-screen deployments
- Toggle among shared data windows from multiple participants
- Share any application or desktop by joining a conference with the VidyoDesktop application, or by physically connecting any computer or device with a VGA output
- Automatic fitting of high-resolution data (QSXGA: 2540 x 2048) for excellent detail and legibility of text, medical images, design drawings and more

## 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
- Optional PIN protection to control access
- Locking function prevents additional participants from joining a conference

## 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

## VidyoRoom™ HD Series

| | HD-220 | HD-110 | HD-100 | HD-50 |
|---|---|---|---|---|
| **Participant Video (Transmitted)** | | | | |
| 1080p30 (2 - 4 Mbps) | • | • | | |
| 1080p15 (1 Mbps) | • | • | • | |
| 720p60 (2 - 4 Mbps) | • | • | | |
| 720p30 (384 kbps - 2 Mbps) | • | • | • | • |
| 540p30 (384 kbps - 2 Mbps) | • | • | • | |
| 450p30 (384 kbps - 2 Mbps) | | | • | • |
| 360p @ 30 fps | • | • | • | • |
| **Participant Video (Received Modes)** | | | | |
| 1080p30 | • Dual Screen | • | • | • |
| 720p60 | • Dual Screen | • | • | • |
| 720p30 | • Dual Screen | • | • | • |
| **Data Rates** | | | | |
| Minimum for 720p30 | 384 kbps | 384 kbps | 384 kbps | 384 kbps |
| 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<br>• Toggle between continuous presence and active speaker views<br>• Multiple layouts to display participants and shared content | • | • | • | • |
| Dual-Screen (1x Video + 1x Content)<br>• Data full screen on the second screen | • | • | • | • |
| Dual-Screen (2x Video)<br>• Active speaker on screen 1 with continuous presence video on screen 2<br>• Continuous presence video on both screens | • | | | |