![Vidyo — Personal Telepresence]

VidyoPanorama™

Telepresence for Everyone

VidyoPanorama™ offers best-in-class telepresence system quality, accessibility and cost savings.

| Triple the resolution of traditional telepresence | Immersive interaction for multiple locations | Up to 90% TCO savings for enterprise-wide video conferencing |

Affordable telepresence for every organization

VidyoPanorama™ breaks the performance-price barriers of traditional telepresence with unmatched quality, accessibility and capacity at a fraction of the cost.

VidyoPanorama™ eliminates the need for custom-built rooms, proprietary hardware and QoS networks, and transforms any room into a dynamic hub for video collaboration. With affordable components and flexible deployment options, VidyoPanorama reduces up-front investment by 90% and lowers operating costs by working over any broadband IP network.

The Vidyo Advantage. It all begins with the software-based infrastructure and patented Advanced Video Layering™ technology of the Vidyo™ Conferencing system. Video streams are dynamically optimized to the capabilities of each endpoint and local network conditions — with none of the transcoding required by traditional systems. This allows VidyoPanorama to connect over low-cost broadband networks with participants from any location, using mobile, desktop or room-based systems, and ensure everyone of a telepresence quality experience.

No other telepresence system can match VidyoPanorama in its ability to deliver 1080p resolution with 60 frames per second across up to nine screens, for the most natural high-quality and low-latency video conferencing anywhere. Flexible layout options optimize available space and help you cater to any conferencing workflow, even multiple screens of shared content. And participants can video conference without being tied to a few fixed physical locations that require advance scheduling and the time and expense of travel.

Access for Everyone. Because telepresence should support participants throughout and between organizations, every Vidyo solution includes desktop and mobile software clients. You can even extend your solution to existing H.323 and SIP endpoints with the optional VidyoGateway™ appliance, or create custom solutions with Vidyo™ APIs and the Vidyo™ SDK. With unmatched performance and scalability at a dramatically lower total cost of ownership, VidyoPanorama sets new standards for the capability and value of telepresence.

Key features

Quality

- Highest telepresence resolution, up to 1080p/60 per screen, bi-directionally
- Lowest latency (<20 ms) for natural interaction
- Transcode-free infrastructure dynamically optimizes the video stream for each endpoint
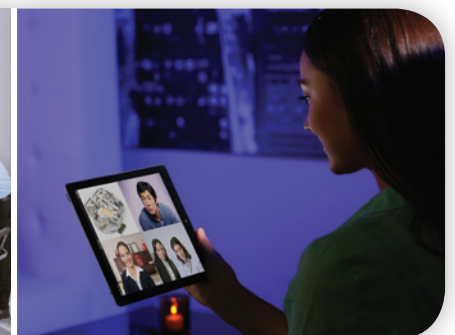
Flexibility

- Choose any number of screens (up to nine) to suit your room, application and budget
- Change layout on-the-fly to show full-screen participant video, continuous presence, or multiple screens of shared content
- Collaborate with remote participants on mobile and desktop devices and room systems
- Share and compare data among multiple participants on multiple screens

Scalable Capacity

- Host hundreds of participants per conference
- Display up to 72 participants in continuous presence
- Completely modular: add screens as your needs grow

Accessibility

- Vidyo™ Endpoints: any VidyoRoom™, any PC or Mac™ running VidyoDesktop™, and any iOS™ or Android™ smartphone or tablet running VidyoMobile™
- 3rd party endpoints: optional VidyoGateway appliance bridges endpoints and MCUs that use H.323 and SIP for signaling, H.264 and H.263 for media, and H.239 for content sharing
- Guests: guest participants can participate from any network, no VPN required

Ease of Use

- Single-click call initiation on the touch-screen VidyoRemote™ tablet
- Universal address book with presence and user-customizable favorites
- External users (guests) can participate from any supported endpoint

Security

- Video and audio privacy mode
- No default to auto-answer
- Admin and user-level password security
- Secure sign-in via HTTPS

- Optional PIN codes to restrict meeting access
- AES 128-bit media encryption
- TLS/SRTP support
- Automatic firewall and NAT traversal

Lower Cost of Ownership

- No QoS required: save thousands in monthly MPLS expenses
- Participants can schedule and conduct conferences without calling on IT or concierge services
- Works with your existing facility and network infrastructure

Related products

VidyoPanorama™ delivers immersive telepresence on up to 9 screens; and you can expand the reach of your system with additional components:

- VidyoRouter™ and VidyoPortal™: These essential components of every Vidyo deployment manage endpoints and user accounts, and optimize video streams to the highest resolutions and frame rates of each endpoint.
- VidyoLine™: A floating, perpetual license for a single logical connection through VidyoRouter. VidyoLines are shared among users and only consumed while a soft client is connected through the VidyoRouter.
- VidyoGateway™: Integrates legacy endpoints and MCUs to your VidyoConferencing system.
- VidyoReplay™: Records and streams both live and pre-recorded conferences.
- VidyoDesktop™ and VidyoMobile™: Soft clients that enable users to browse, join, and participate in calls. VidyoDesktop supports Windows™, Mac™ and Linux systems. VidyoMobile is available for iOS™ and Android™ smartphones and tablets.
- VidyoRoom™: Appliance-based endpoints for fixed room or mobile cart applications.

Capabilities comparison

	VidyoPanorama™	Traditional Telepresence
Maximum resolution per screen	1080p/60	1080p/30
# of screens	2 to 9	1 to 3
Participants per screen	Up to 8	1 or 2
# of locations in continuous presence	2 to 72	2 to 4
Maximum system resolution	5,760 x 3,240 (18.6 megapixels)	5,760 x 1,080 (6.2 megapixels)
Typical latency	< 20 ms, without MPLS and QoS	< 150-200 ms, with MPLS and QoS
Bandwidth quality	Broadband IP networks, such as the Internet	Overlay network or private MPLS link with QoS
Typical 3-Year TCO per minute	$0.20	$3.00-4.00

Specifications

System Components	1x VidyoPanorama™ Controller/Encoder Up to 9x VidyoPanorama Decoders (1 for each display) 1x Touchscreen VidyoRemote™ Tablet
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:** 1080p60, 1080p30, 1080p15, 720p60, 720p30; **Via VidyoGateway:** QCIF, CIF, SIF, 4CIF, 4SIF, 720p30
Live Resolutions (Received)	**Native:** 1080p60, 1080p30, 1080p15, 720p60, 720p30; **Via VidyoGateway:** QCIF, CIF, SIF, 4CIF, 4SIF, 720p30
Max Data Rate (Transmitted)	**Minimum:** 1Mbps for 720p 30fps or 2Mbps for 1x1080p 60fps **Maximum:** 6Mbps for 1x1080p 60fps
Max Data Rate (Received)	**Minimum:** 1Mbps for 720p 30fps or 2Mbps for 1x1080p 60fps **Maximum:** 40Mbps in multiple video streams
Content Sharing Resolution	Up to WXGA (fitted to screen resolution)
Content Sharing Participants	Up to 8 (number of screens -1); from any desktop or room system
Video Outputs	1 x DVI
Camera In	1 x DVI
Camera Control	1 x RS-232
Audio Inputs/Outputs	1 x USB
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	VidyoPanorama systems are configured and managed by the VidyoPortal™
Monitoring	SNMP
Network Interface	Gigabit Ethernet: Supports 10BASE-T, 1000BASE-TX and 1000BASE-T, RJ45 outputs
Power Supply	1 x 250W, 100-240v, 4-2A, 60-50Hz
Recommended Camera	Sony EVI-HD7 Camera
Recommended Audio	ClearOne Interact AT
Recommended Network	**LAN Switch:** Enterprise-class Ethernet switch, such as HP Procure 1810G 24 port Ethernet Switch or Cisco Catalyst 2960 Series **Wi-Fi:** Wireless G or better Wi-Fi router for system control by the wireless VidyoRemote tablet **WAN:** Broadband IP WAN link (QoS not required)
Operating Temperature Range	10 to 35° C (50 to 95° F)
Non-Operating Temperature Range	-40 to 65° C (-40 to 149° F)
Humidity Range	20% to 80% (non-condensing)
Non-Operating Humidity Range	5% to 95% (non-condensing)
Regulatory	**EMI/EMC:** EN55022, EN55024, FCC, VCCI, Australian/New Zealand, MIC (Korea) **Safety:** USA: TUV certified; Canada: TUV certified; Europe/CE Mark EN 60950/IEC 60950-Compliant; China: CCC Certification **Environmental:** RoHS compliant
Dimensions	H: 1.67" (42.6 mm); W: 15.5" (393.7 mm); D: 17.1" (431 mm); 17.76 lbs (8.058 kg)