



# VidyoHealth



VidyoHealth™ is the first telehealth solution powered by next generation video conferencing technology which enables a broad range of applications including large-scale home healthcare, remote specialist consultation, distance learning and continuing education classes (CEU) as well as a suite of on-campus solutions. Using the patented VidyoRouter™ architecture and existing PCs, VidyoHealth delivers natural, reliable HD quality visual communication experiences over general purpose IP networks, including the Internet and broadband wireless, to extend the reach of healthcare providers to wherever their patients may be, all while reducing the cost of providing services. VidyoHealth was designed to make the technology transparent for both healthcare provider and patient while providing the quality and control practitioners need. With auto-locking virtual exam rooms, AES 128

bit media encryption, and Secure Socket-Layer technology used to protect login credentials, VidyoHealth delivers piece of mind knowing that all communication that takes place over the system is secure and protects patient privacy. Since the software-based endpoints can be remotely managed from your centralized IT center, patients and other remote users need not be technically savvy to enjoy a quality, hassle-free experience.

## VidyoHealth at-a-Glance:

- Connect video from medical devices into Vidyo conference
- Physician far end control<sup>1</sup>
- Consultation recording & playback<sup>1</sup>
- Signaling and media encryption
- Desktop & Appliance-based endpoints
- Patient-friendly single button endpoint
- HD quality over Internet & wireless
- High resolution document & image

## What Makes VidyoHealth Different?

The VidyoRouter functionality included in VidyoHealth replaces the expensive Multipoint Control Unit (MCU) found in legacy H.264/AVC based video conferencing systems. Gone are the days of transcoding which added latency to and degraded quality of the video stream. The VidyoRouter™ intelligently routes encoded and encrypted video packets to the endpoints where decoding takes place, delivering the highest quality video possible. Leveraging Scalable Video Coding (SVC) technology, VidyoHealth is able to provide each endpoint with rate-matched video streams based upon that endpoint's available bandwidth, processing power, and screen resolution. The result is robust, seamless, connectivity between healthcare providers and patients with individualized screen layouts, over low-cost general purpose IP networks – including the Internet. Leveraging the ubiquitous Internet is key to extending the reach of healthcare to under-served areas, such as rural locations, and VidyoHealth is second to none in delivering reliable quality video communication without expensive Quality of Service enhanced networks.





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## What Makes Up VidyoHealth?

### REQUIRED COMPONENTS

#### Administration

VidyoPortal™

#### Multi-point Call Control

VidyoRouter™

### OPTIONAL ENDPOINTS

#### Physician End Points

VidyoDesktop™

VidyoRoom™ HD-220

VidyoRoom™ HD-100

VidyoRoom™ HD-50

VidyoDesktop™ Executive

#### Patient End Points

VidyoDesktop™

VidyoClick™

#### Medical Cart End Points

VidyoCart™

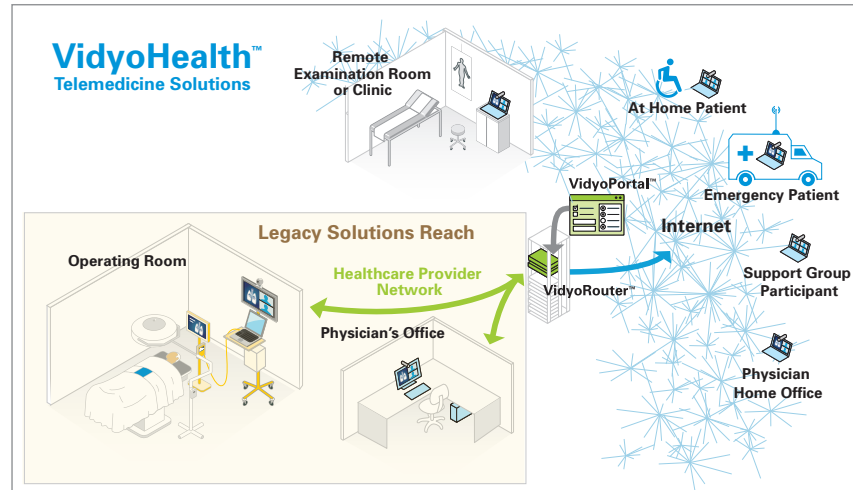
### OPTIONAL INFRASTRUCTURE

#### Firewall Traversal

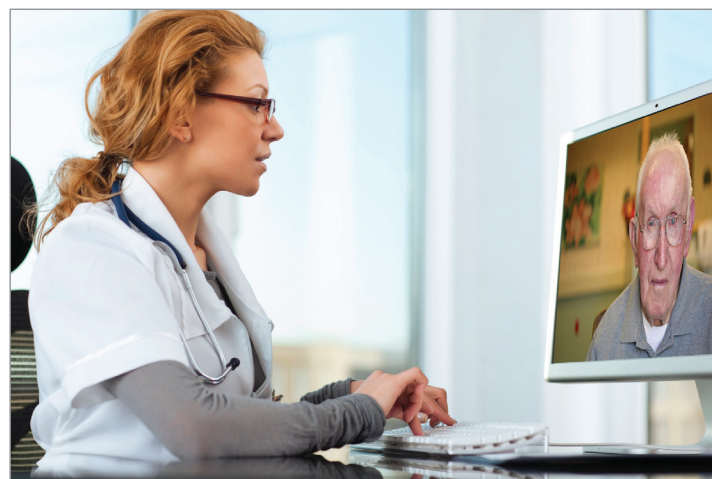
VidyoProxy™

#### Inter-connectivity

VidyoGateway™



Management and access control are done via the VidyoPortal™ for VidyoHealth. The VidyoPortal is a web-based environment used to manage the VidyoHealth system by administrators and end-users alike. In fact, it is so incredibly straightforward that any administered user can initiate and manage meetings - via the Web - from anywhere. The VidyoPortal's flexible interface features single-click-action buttons that take care of everything required to initiate a conference. And with the VidyoHealth, the practitioner can take control of the far-end camera, whether it is an appliance-based room system or a PC-based desktop.



VidyoHealth offers special endpoints to enable quality healthcare services to be delivered in challenging environments. VidyoCart™ is a mobile HD VidyoRoom™ integrated with a HIPAA compliant cart to meet the needs of hospital and similar care facility environments. Understanding that having great technology is not enough to make at-home healthcare work, and that the user interface has to be so easy even the most technologically challenged patients can use it for it to be effective, Vidyo has developed VidyoClick™, a single button endpoint that makes joining a Vidyo conference with a healthcare provider as simple as pressing a button.



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## Features, Specifications & Capabilities:

### VIDEO STANDARDS

- H.264 SVC
- H.264/AVC (via VidyoGateway)
- H.263 (via VidyoGateway)

### VIDEO RESOLUTIONS & FRAME RATES

- Scalable up to 1080p30 for VidyoDesktop
- Scalable up to 1080p30 and 720p60 for VidyoRoom

### VIDEO FEATURES

- External medical device video stream sharing
- Data sharing
- Individual, customizable layout
- Voice activated mode
- Continuous presence mode
- Privacy mode
- Self-view
- Selectable video optimization modes

### AUDIO FEATURES

- Full Duplex, 16KHz audio
- Echo cancellation
- Privacy mode (microphone mute)
- Microphone volume control
- Speaker mute
- Speaker volume control

### SECURITY FEATURES

- AES 128bit encryption
- SSL for secure login
- Auto-locking virtual meeting rooms<sup>1</sup>
- Manual PIN code protection for virtual meeting rooms

### USER MANAGEMENT FUNCTIONS

- Manage personal account settings and preferences
- Set /change virtual meeting room PIN
- Secure login
- Initiate a meeting
- Join a meeting
- Initiate a direct call
- Invite patients or guests via emailed hyperlink
- Search intelligent directory
- Browse meetings and users
- Manage personal speed dial list

### IN-CALL CONTROL & FEATURES

- Session recording & playback<sup>1</sup>
- Mute/ unmute participants in own meeting room
- Turn participant video on/ off in own meeting room
- Disconnect participants from own meeting room
- Local disconnect
- Far end camera control (both VidyoDesktop<sup>1</sup> & VidyoRoom)

### ADMINISTRATION FUNCTIONS

- Secure login
- Create & manage user accounts
- Create & manage public & private meeting rooms
- Manage permission groups
- Configure network settings
- Update endpoint software for automatic download
- View system and client status
- Moderate in-progress meetings
- Centralized remote endpoint maintenance
- Exportable call detail records
- Multi-tenancy (optional)

### FIREWALL TRAVERSAL

- Supports NAT traversal
- Automatic port negotiation
- VidyoProxy™ as software only or separate appliance

### PERFORMANCE FEATURES

- Dynamic network monitoring and video scaling
- Network error resiliency
- Low latency (less than 200ms)
- Lossless video and audio (no transcoding)
- Support non-proprietary cameras and peripherals

<sup>1</sup> feature planned for a future release



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