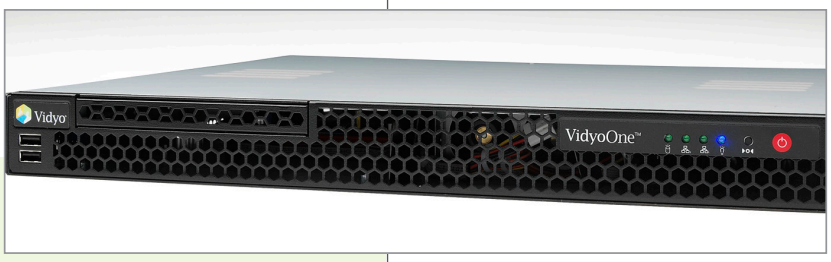
Vidyo™
Personal Telepresence

VidyoOne



VidyoConferencing is a new paradigm for multi-party conferencing which leverages cutting edge video compression technology, H.264 SVC, and a revolutionary architecture to deliver high definition video conferencing, over general purpose IP networks, direct to a desktop or room system. VidyoOne™ delivers all of the VidyoConferencing™ hardware and software components required for desktop conferencing in a single 1U appliance at a single fixed price, making it easy and affordable for any organization to deploy their own VidyoConferencing solution. All that's left to do is connect it to the network. So now everyone in your organization can communicate more effectively from anywhere they have an Internet connection. Not ready to move to desktop VidyoConferencing? Use the VidyoOne-R™ to future proof your network and provide a very low cost platform for multipoint connectivity to existing legacy room systems and higher performing VidyoRoom™ systems!

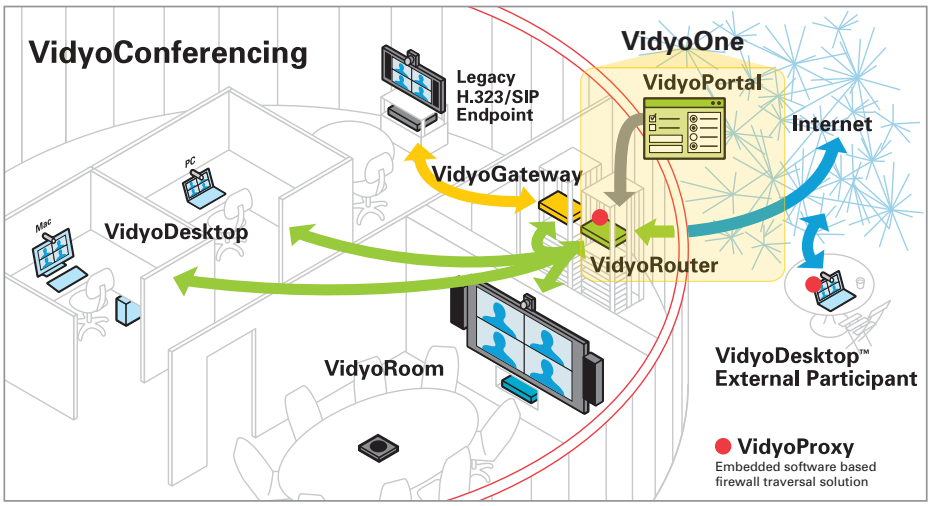
The VidyoRouter™ functionality included in VidyoOne replaces the expensive Multipoint Control Unit (MCU) found in legacy H.264/AVC based video conferencing systems. Gone are the days of transcoding which adds latency and degraded quality to the video stream. VidyoOne intelligently routes video packets to endpoints where decoding takes place, delivering the highest quality video possible. Using Scalable Video Coding (SVC) technology, VidyoOne is able to provide each endpoint with rate and resolution matched video streams based upon that endpoint's available bandwidth, processing power, and resolution capability. The result is robust, seamless, connectivity among conference participants with individualized screen layouts, over low-cost general purpose IP networks – including the Internet.

SVC

No MCU Required

VidyoOne Benefits:

- Complete HD quality video conferencing system
- Affordable, fixed price, perpetual license
- Uses latest video compression standard – H.264 SVC
- Windows and Mac OS compatible
- Uses any IP network – including the Internet
- Most cost effective multi-point platform for room systems – no software licensing required



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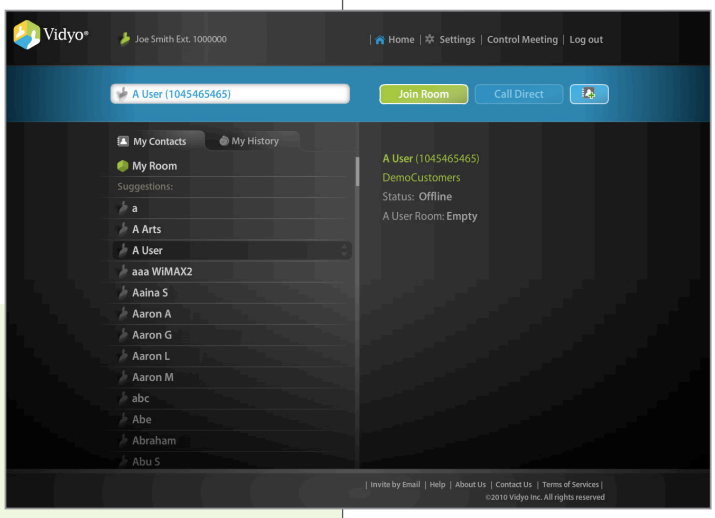

Management and access control are done via the VidyoPortal™ functionality included in VidyoOne. The VidyoPortal is a Web-based environment used to manage the VidyoConferencing system by administrators and end-users alike. In fact, it is so incredibly straightforward that any conference participant can use it to 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 VidyoOne, there is no need for the traditional Gatekeeper found in MCU-based solutions. It is truly an all-in-one solution.

▲ *VidyoPortal application included with VidyoOne.*

When a user attempts to access VidyoConferencing for the first time from a Windows PC or Mac via the VidyoOne™ portal, the VidyoDesktop™ client software automatically downloads and installs on the user's computer. The VidyoDesktop provides features such as application-sharing and "continuous presence or voice-activated speaker" window, plus a variety of camera and audio controls. All provisioned users have access to their own, reservation-less, virtual meeting room with access controls and the ability to invite guest users as well as other provisioned users. Want to add room systems to your VidyoOne solution? No problem – all of the VidyoRoom models integrate with the VidyoDesktop and each other seamlessly in a blended environment. What's more, VidyoRooms and VidyoGateways do not consume concurrent use software licenses called VidyoLines, making it the most cost effective multipoint platform for room systems available in the market today and leaving all of your VidyoLine capacity available for your VidyoDesktop endpoints.

▲ *VidyoDesktop application included with VidyoOne.*

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VidyoOne

With the ability to natively support integrated desktop and room system environments at a fraction of the cost of lesser performing legacy systems, there is no longer any reason to invest in MCU infrastructure.

VidyoOne Features and Functions:

Vidyo Standards
- H.264 SVC

Video Resolutions & Frame Rate
- Scalable up to 1080p30 for VidyoDesktop
- Scalable up to 1080p30 and 720p60 for VidyoRoom system (optional)

Video Features
- Individual, customizable layout
- Voice activated mode
- Continuous presence mode
- Data sharing
- Privacy mode
- Self-view
- Selectable video optimization modes

Audio Features
- Full duplex, 16K sample audio
- Echo Cancellation
- Privacy mode (microphone mute)
- Microphone volume control
- Speaker mute
- Speaker volume control

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
- Exportable call detail records

User Management Functions
- Secure login
- Initiate a meeting
- Join a meeting
- Initiate a direct call
- Search intelligent directory
- Browse meetings and users
- Mute or remove participants from own meeting
- Invite participants with clickable guest links for both subscribed and non-subscribed users
- Invite participants via Microsoft Outlook plug-in
- Manage personal speed dial list
- Manage personal account settings and preferences

Firewall Traversal
- Supports NAT traversal
- VidyoProxy™ server

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

Optional Features
- VidyoRoom (HD room systems)
- VidyoGateway (H.323 & SIP connectivity)
- Integration with Microsoft Office Communicator
- Secure conferencing--AES 128bit encryption, TLS and HTTPS

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What's in the box?

VidyoOne-R	VidyoOne-10 (includes VidyoOne-R hardware)
Connect up to 20 VidyoRooms and legacy endpoints via VidyoGateway (sold separately)	10 perpetual concurrent use VidyoLines (upgradable to 20 total)
5 credentialed VidyoDesktop users	100 credentialed VidyoDesktop users
5 VidyoDesktop client licenses	100 VidyoDesktop client licenses

VidyoOne Specifications:

PHYSICAL SPECIFICATIONS

DIMENSIONS:

Height: 14.96" (380 mm)
Width: 16.92" (430 mm)
Depth: 1.7" (43.4 mm)
Gross Weight: 8.4 lbs (3.85 kg)
Form Factor: 1U Rackmount

BACK PANEL:

Ports
- 2x RJ45 LAN ports - 100BASE-TX, and 1000BASE-T
- 1 x External Serial Port
- 2 x RJ-45 ports
- 2 x USB2.0 ports
- 1 x VGA port
- 1 x PS/2 Keyboard port
- 1 x PS/2 Mouse port

FRONT PANEL:

Buttons
- Power On/Off button

LEDs
- Power LED
- Hard drive activity LED
- 2x Network activity LEDs
- System Overheat LED

Ports
- 2x USB2.0 Ports

OPERATING ENVIRONMENT:

Operating Temperature
Range: 10° to ~35°C
(50° to 95° F)

Non-Operating Temperature
Range: -40° to ~70°C
(-40° to 158° F)

Non-Operating Humidity
Range: 20% to ~ 90%
(non-condensing)

REGULATORY:

US/Canada: (UL1950-CSA950)
Europe: (CE, EN55022 compliance to EU Directive 89/366/EEC)
Europe: (TUV)
US: (FCC, CFR47 Part 15, Class A, Class B)
Europe: (CE, EN55022 & EN55024)
Australia: (C-TICK)
Taiwan: (BSMI)
China: (CCC)

POWER SUPPLY:

INPUT: 100-240v ~, 4-2A, 60-50Hz
OUTPUT: 220w Single Power Supply

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