VidyoRouter™

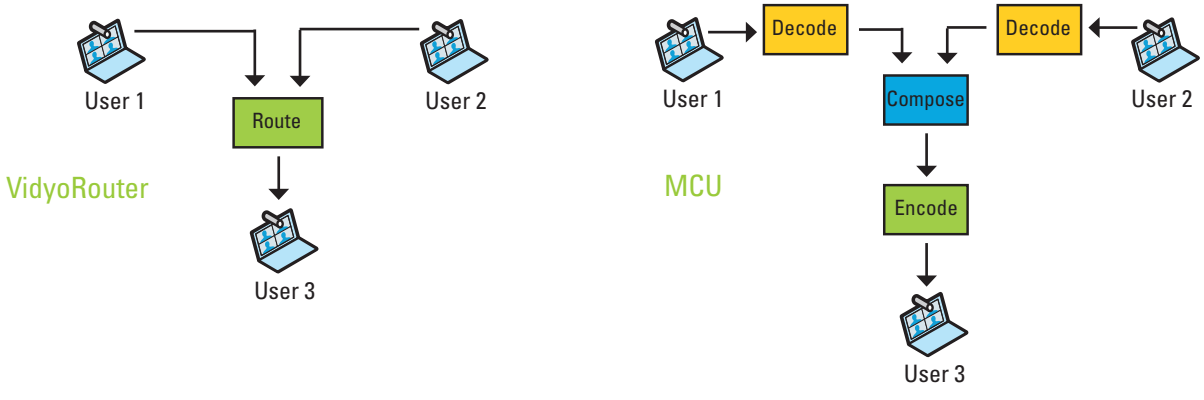
At the heart of the VidyoConferencing™ system is the VidyoRouter appliance, a new paradigm for multiparty conferencing, that eliminates the need for the Multipoint Control Unit (MCU) required in traditional video conferencing systems. It introduces the first major architectural change for video conferencing in decades.

Since VidyoTechnology™ was designed for the Internet from the ground up, it takes advantage of the cost efficiencies available through Internet utilization. Through the VidyoRouter, encoding and decoding occurs only at the endpoints — leaving just video packet routing to be accomplished within the network itself. Vidyo's intelligent VidyoRouter ensures that this packet-switching is handled with optimal efficiency — without either degrading the quality of the video or adding noticeable latency.

The VidyoRouter significantly improves network utilization efficiency by sending along only as many packets as an endpoint is capable of handling, depending on limitations in bandwidth, processing power or screen resolution. And because the amount of processing power and bandwidth available is dynamic, the VidyoRouter constantly tests and recalibrates what it should be sending to each endpoint, ensuring that each endpoint is provided with the highest quality video it's capable of receiving — even as local conditions change from one minute to the next.

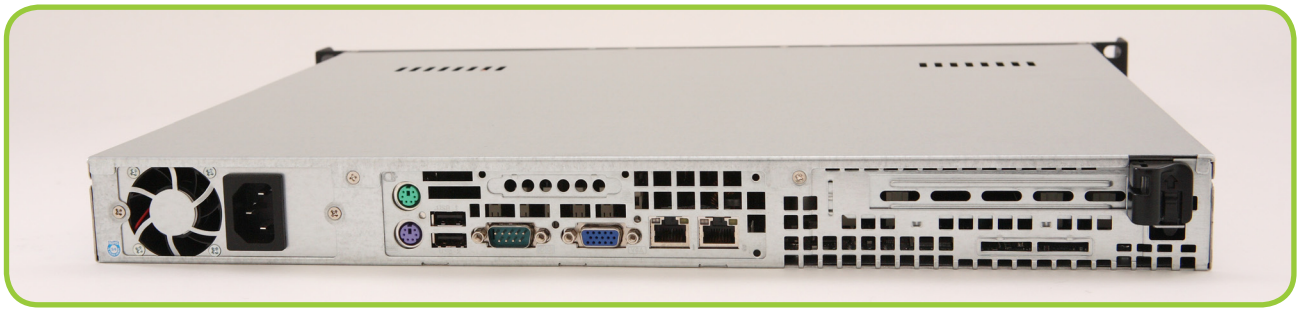
Each VidyoRouter supports up to 100 HD ports. Since all ports can be managed by a single VidyoPortal, ports can reside together on one VidyoRouter or – to optimize user experience and performance – ports can "float" between multiple VidyoRouters that reside at different geographical locations, providing both redundancy and improving performance by utilizing VidyoRouters nearest the participants. Given that endpoints can produce a variety of different resolutions, quality and frame rate combinations, the VidyoRouter ensures a video experience of consistent quality that is free of blurry images and broken pictures.

VidyoRouter vs Multipoint Control Unit:



Vidyo™
Personal Telepresence

VidyoRouter Specifications



Server Physical Specifications

Dimensions	
Height Width Depth Gross Weight Form Factor	1.7" (43mm) 17.2" (437mm) 14.5" (369mm) 20 lbs (9.1kg) 1U Rackmount
Back Panel	
Ports	2x RJ45 LAN ports - 100BASE-TX and 1000BASE-T, 2x USB, 1x VGA Port, PS/2 keyboard and mouse ports,1 Fast UART 16550 serial port
Front Panel	
Buttons	Power On/Off button
LEDs	Power LED, Hard drive activity LED, 2x Network activity LEDs, System Overheat LED
Ports	2x USB Ports
Peripheral Drives	DVD-ROM - Slim 8x DVD / 24x CD-ROM Drive
Power Supply	520W AC to DC power supply w/ PFC 100 - 240V, 50 - 60Hz, 7 - 3Amp
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)
Humidity Range	8 - 90% non-condensing
Non-Operating Humidity Range	5 - 95% non-condensing
Regulatory	USA - UL listed, FCC, Canada - CUL listed, Europe/CE Mark, EN 60950/IEC 60950-Compliant

Inherent System Features

- Support up to 100 HD ports (720P60)
- Intelligently identifies and adjusts to bandwidth and network constraints – on the fly
- Provides error resiliency
- Nearly zero-delay (~20msec) injected to media streams
- No video or audio quality loss (no transcoding)
- Provides N+1 redundancy with minimal costs (port licenses are maintained in the VidyoPortal)
- Easy to deploy and scale

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