

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. The VidyoRouter is the keystone in this major architectural change for video conferencing.

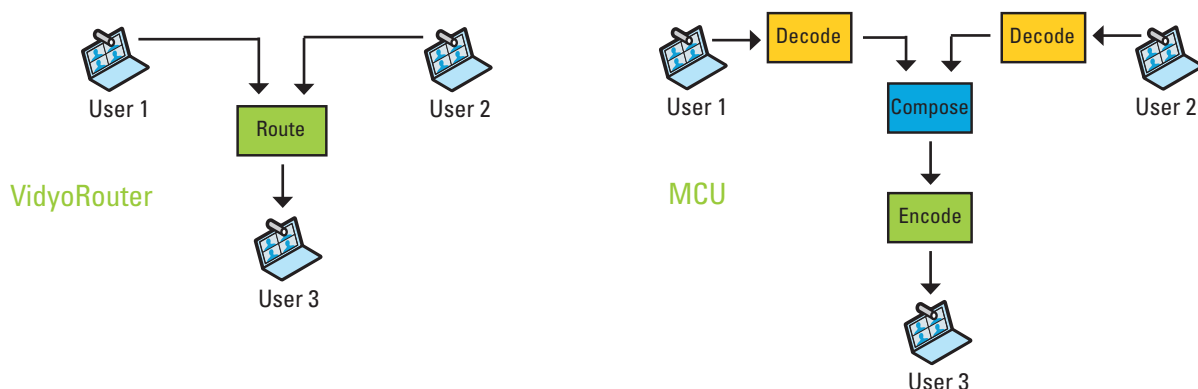


VidyoConferencing was designed for general purpose IP networks. Encoding and decoding occurs only at the endpoints — leaving just video packet routing to be accomplished within the network itself. Vidyo’s intelligent VidyoRouter ensures that this packet-switching is handled with optimal efficiency — without either degrading the quality of the video or adding noticeable latency, yet it delivers rate matched and resolution matched streams to each endpoint while providing error resiliency.

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:



VidyoRouter 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	2 x 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, 2 x Network activity LEDs, System Overheat LED
Ports	2 x 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	

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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