Configurations listed from most reliable to least

Specialized Videoconferencing Hardware Device. (ie. codec)	Hard wired Ethernet
	connection.
Dedicated desktop computer running only OS and Vidyo	Hard wired Ethernet
	connection.
Dedicated laptop computer running only OS and Vidyo	Hard wired Ethernet
	connection.
Desktop computer running Vidyo in addition to other programs.	Hard wired Ethernet
	connection.
Laptop computer running Vidyo in addition to other programs.	Hard wired Ethernet
	connection.
Laptop computer running Vidyo.	Wi-Fi Connection
Mobile device (Tablet / Phone)	Wi-Fi Connection
Mobile device (Tablet / Phone)	Cellular Network Connection

Hardware						
Solution Grade	Туре	Description			Support/Limitations	
Best	Specialized Vidyo Hardware	Vidyo HD40 with Sony HD7 PTZ 10x Camera (Vendor Quotes Available Upon Request)			Vendor Warranty Package including: • Advanced Parts Replacement • Helpdesk Support (24/7) • Software Updates & Upgrades MDTV Remote Access	
Better	Specialized Videoconferencing Hardware (i.e. codec)	Cisco C20 Codec with 12X Pan/Tilt Camera and 22" HDTV Monitor (Vendor Quotes Available Upon Request)			Six Month Vendor Warranty MDTV Remote access	
Good 1st Choice: Desktop compu		PC Desktops Dell OptiPlex 9010 with Windows 7 Professional		Mac Desktops IMac		Current Supported Windows Operating Systems: <u>Windows 7</u> or <u>Windows 8 Professional</u> (Not Windows 8 Home).
connection with a webcam microphone. 2nd Choice: A laptop complete.	uter on a wired or	PC Laptops:		Mac Mini Mac Laptop:		Does not include MDTV Remote Access Must be supported through your own
network with a webcam as microphone 3rd Choice: A laptop compu		Lenovo X240 Sei Windows 7 Prof		Macbook Pro		IT Helpdesk staff. Please follow most reliable configuration listing above.
network(wifi) with a webca microphone	am and a usb conference					Please see webcam and microphone add-on recommendations below
Supported	Mobile Device	iPhone: 5, 4S, 4 iPod Touch: 5 th and 4 th generation iPad: 4 th , 3 rd , 2 nd , iPad Mini	iPhone: 5, 45, 4 Samsung or Kindle Minimum requirements for an Android device: iPod Touch: 5 th and 4 th generation So version 2.2 and above Speakers iPad: 4 th , 3 rd , 2 nd , Wireless connectivity		Not recommended for presenting patients. Does not include MDTV Remote Access Must be supported through your own IT Helpdesk staff. Please follow most reliable configuration listing above. Please see microphone add-on	
						recommendations below

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MDTV Recommended Vidyo Hardware Setup & Network Configuration

Add-On's		
Application	Webcams	Microphones
Clinical	Logitech HD USB PTZ Video Conference Camera	If purchasing Logitech HD USB PTZ Video Conference Camera you do not need to purchase an additional microphone
Desktop Computer	Logitech HD Pro Webcam C920	Phoenix MT202 Duet PCS (Desktop, Laptop)
Conference Room	Logitech BCC 950 ConferenceCam	Phoenix MT301 Quattro3

Network Information and Best Practices

Port List & Network Requirements

Below are the ports the client needs to access.

- tcp 1720 H323 setup
- tcp/udp 5060 SIP
- tcp/udp 5061 SIP TLS
- tcp 443 HTTPS
- tcp 80 HTTP

Vidyo

- tcp 17992 EMCP
- TCP Port 17990 (SCIP) and UDP Ports 50,000 65,535 (RTP/sRTP/RTCP) bidirectional to the Vidyo routers

Note about UDP timeouts on firewalls:

Some Firewalls have a UDP default timeout. On the Cisco PIX Firewall, for example, if the UDP timeout is not changed then the call will drop in exactly two minutes and the Vidyo client(s) would have to reconnect. You may want to contact your network admin to check this setting and increase the timeout.

Connection Speed & Network Testing

To perform speed test go to: http://speedtest.hsc.wvu.edu

Video Conferencing Target Values	GOOD	FAIR
Speed UP/DOWN	2000 kbps and above	768 kbps - 2000 kbps
Latency	1 - 150 ms latency	150 - 400 ms latency
Jitter	1 - 20 ms end-to-end	30 - 50 ms end-to-end
Loss	1% random packet loss	2 - 5% random packet loss

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