

SUMMARY - With Nefsis your video quality is a function of bandwidth and your video peripheral

Nefsis provides state-of-the-art web and multiparty video conferencing across NATs, firewalls, proxies and the Internet. Nefsis includes all web conferencing features needed for productive online meetings, including desktop, document, PowerPoint sharing and more. Nefsis also works with mixed-speed connections and users with different brands of PC video peripherals. Image quality depends on your available bandwidth and video device.

	BANDWIDTH	VIDEO CAMERA
HD	1-4 mbps	Sony EVI-HD1 for conference rooms
ED	512 kbps - 1 mbps	Sony EVI-HD1 for conference rooms / Logitech Ultra Vision or equivalent webcam for desktops
CIF (full screen)	512kbps	Sony EVI-D70 for conference rooms / Logitech 5000 webcam or equivalent webcam for desktops
1/4 screen	256 kbps	Logitech USB webcam or equivalent for desktops & notebook computers
1/8 screen	56-128 kbps	Logitech USB webcam or equivalent for desktops & notebook computers

DETAILS - Standard USB webcams provide full-screen conferencing

	BANDWIDTH	VIDEO CAMERA
Per Video:	Typical Connection:	Typical Camera: Logitech webcam (\$80-\$120); conference room camera (\$1000); HD camera (\$4500)
1-4 mbps	6 mbps or better	High Definition - Sony EVI-HD1
1-3 mbps	6 mbps or better, dedicated bandwidth recommended	High Definition - Sony EVI-HD1
512 kbps	Shared T1 or better	Full Screen - Logitech Ultra Vision Full Screen - Sony EVI-D70 Full-Screen - Logitech 5000
256kbps	DSL, cable modem or better	Full Screen - Logitech 5000
128kbps & less	DSL, cable modem or better	Any Webcam
VIDEO RESOLUTION		
Video resolution:	1/4 CIF 320x240	CIF 640x480
Nearest computer monitor match:	Quarter screen	VGA
Frames per second (fps):	3-6 fps	6-12 fps
		CIF 640x480
		VGA VGA
		ED 720p
		XGA XGA
		HD 720p
		XGA XGA
		HD 1080i / 1080p
		WUXGA WUXGA
		30 fps
		30 fps

NOTES - HD video conferencing requires megabits/second bandwidth for any decent frame rate

Acronyms are Common Interchange Format (CIF), Enhanced Definition (ED), High Definition (HD), frames per second (fps), and pan-tilt-zoom (PTZ)

VGA 640 x 480 (4:3 aspect ratio); HD 1280 x 720 (16:9 aspect ratio); XGA 1024 x 768 (4:3 aspect ratio); WUXGA 1900 x 1200 (16:9 aspect ratio)

HD frame rates are 60 progressive frames per second at specification (720/60p)

Enhanced definition (ED) is loosely defined and generally means HD resolution, but at much lower frame rates

USB webcams such as the Logitech 5000 and Ultra Vision are capable of full-screen, 640x480 video at full-motion, 30 frames per second (fps)

Pan Tilt Zoom (PTZ) conference room cameras such as the Sony EVI series require a video capture card (\$150 standard video, \$1000-\$3000 HD)

Nefsis software and online services allow mixed-speed connections, however, HD requires megabits/second Internet service for any decent frame rate.

High definition (HD) conferencing requires camera, PCI adapter and display monitor capable of HD settings, see separate data sheet for details

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