

Recommended Settings for Digital Video with Audio

Calvin College Audio-Visual & Calvin College Information Technology

Category	Editing Quality	Portable High Quality	Portable Standard Quality	PowerPoint	Creating Subtitles
Typical Use	Editing on a Computer	Hard drive, DVD-ROM or CD-ROM	Knightvision, portable media players (iPods), for website downloads, upload to YouTube	Insert into PPT presentations	Playback in <i>Subtitle Workshop</i>
File Format & Codec	.dv & DV-NTSC codec	.mp4 & H.264 codec	.mp4 & H.264 codec	.wmv & WMV codec (Mac users: see footnote)	.avi & Mpeg4 codec (Visual Hub export: <i>Best Windows Compatibility</i>) (Mac users: see footnote)
Constant Bitrate (lower setting makes smaller file)	25Mbps	1Mbps	320 kbps	320 kbps	320kbps
Video Resolution	720x480	640 x 360 (widescreen) 640 x 480 (square screen)	320 x 180 (widescreen) 320 x 240 (square screen)	320 x 180 (widescreen) 320 x 240 (square screen)	any
Video Frame Rate	29.97fps	30fps	15fps	15fps	15fps
Audio Codec	PCM	AAC	AAC	WMA	uncompressed
Audio Bit Depth	16	16	16	16	16
Audio Bitrate	1.5Mbps	128 kbps	64 kbps	64 kbps	NA
Audio Sample Rate	48khz	44.1 khz	22.05 khz	22.05 khz	22.05 khz
File Size / Minute	187MB/min	8.4MB/min	2.8MB/min	2.8MB/min	2.8MB/min

PPT for Mac users: The WMV format works well for Powerpoint in Windows. To use it on a Macintosh, a free plug-in called *Flip4Mac* must be installed. It is already installed on Macintosh computers provided by Calvin College. If you want to play WMV video in Powerpoint on someone else's Macintosh, you must install *Flip4Mac* onto it. The free download is available at: www.flip4mac.com/download.htm

AVI for Mac users: If your Macintosh has trouble playing .avi files, download and install the free Perian codec from www.perian.org/