that is a multiple of 16 since H.264 uses 16x16 macroblocks (Otherwise you will be wasting bits on resolution that is unused).

2.5 Supported Video Formats

The following is a summary of supported video formats that have been tested and/or are currently in-use. Other formats or encoding may be supported, but should be evaluated on a case by case basis.

	H.264 SD	H.264 HD	WMV9 SD	VC-1 HD
Aspect Ratio[1]	4:3	16:9	4:3	16:9
Dimension	Various to 720x480	Various to 1280x720 and 1920x1080 for 1080p	Various to 720x480	Various to 1280x720 and 1920x1080 for 1080p
Progressive/Interlaced	Progressive	Progressive	Progressive	Progressive
File Format	.mp4 (MPEG-4 Pt 14), .mov .m4v HLS: m3u8 & .ts	.mp4 (MPEG-4 Pt 14), .mov .m4v HLS: m3u8 & .ts	ASF (.asf, .wmv)	ASF (.asf, .wmv)
Frame Rate[2]	23.976 fps or 29.97 fps	23.976 fps or 29.97 fps	23.976 fps or 29.97 fps	23.976 fps or 29.97 fps
Color Space	YUV	YUV	YUV	YUV
Video Codec	H.264/AVC	H.264/AVC	WMV9	VC-1 AP (WVC1)
Profile	Main/High	High	Main	Advanced
Level/Complexity	4.0	4.0	4.0	4.0
Video Mode	Constrained VBR	Constrained VBR	Constrained VBR	Constrained VBR
Average Streaming Video Bitrate[3]	384Kbps - 1.6Mbps	1.6Kbps – 3.2Mbps	500Kbps-2.2Mbps	2.6Mbps – 4.0Mbps
Average USB Video Bitrate[3]	384Kbps – 8.0Mbps	384Kbps – 8.0Mbps	384Kbps – 8.0Mbps	384Kbps – 8.0Mbps
Peak Video Bitrate	1.5x average	1.5x average	1.5x average	1.5x average
Key Frame Interval	< 10s	< 10s	< 10s	~3s
DRM	None	None	None	None
Audio Codec	AAC LC (CBR), AC3 Passthrough	AAC LC (CBR), AC3 Passthrough	WMA 9.2 (CBR)	WMA 9.2 (CBR)
Audio Bit Rate	128-256Kbps	32-256Kbps	64-128Kbps	64-256Kbps
Audio Sample Rate	44.1 Khz or 48Khz	44.1 Khz or 48 Khz	44.1 Khz or 48Khz	44.1 Khz or 48Khz
Audio Sample Size	16-Bit	16-Bit	16-bit	16-bit
Audio Channels	2-Ch Stereo	2-Ch Stereo	2-CH Stereo	2-CH Stereo

Notes:
1) The dimensions vary on a title-by-title basis depending on the source material and the target aspect ratio for the encoding (e.g. 4:3 or 16:9). Content should always be encoded at full width and the height is adjusted. For example, a 1.66 aspect ratio source is encoded as a 720x432 video and displayed as letterboxed for a 4:3 display.
2) The frame rate used for encoding depends on the source material. Film content is generally 23.976 fps, while video content is generally at 29.97.
3) For typical streaming video applications, we recommend a range of ~384Kbps to ~4.0Mbps. For USB playback, we recommend that you stay under 8.0 Mbps. This provides a good balance between quality and support for a wide number of users. In some cases lower and higher bitrates have been used, but this frequently results in poor quality or limits the % of the installed base that can view this encoding.