

## Video Bitrate & File Size Charts

Bitrate is the amount of data that is being sent to the viewer per second and in our chart below is measured in Mega Bits per Second (Mbs). Typically the higher the bit rate, the higher quality the video but that really depends on the choice of codec as H.264 has very low bit rates but also quite high quality. It requires more computer processing power to encode and decode than most other codecs. Nearly all the bitrates in the chart are consider variable bitrates (VBR) which means that the video bitrate will actually be lower than the target unless needed. Video that contains a lot of movement and color will typically require the full bitrate and in some cases require an even higher bitrate to make the video sharp.



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Frame dimensions	Frame rate	Apple ProRes 4444 data rate	Apple ProRes 422 (HQ) data rate	Apple ProRes 422 data rate	Apple ProRes 422 (LT) data rate	Apple ProRes 422 (Proxy) data rate	XDCAM HQ MPEG MP@HL 4:2:0 color	XDCAM HD422 MPEG 422P@HL 4:2:2 color	MPEG2 Program Stream source file to Aberdeen	DV & HDV	Web/H.264 what is used for YouTube and others	Broadcast TV Stations playserver files 4:2:0 and 4:2:2
<b>720 x 486</b>	29.97 fps	94 Mbps	63 Mbps	42 Mbps	29 Mbps	12 Mbps			25Mbps	25Mbps DV Codec	.8Mbs	6-18Mbs 12Mbs avg.
<b>1280 x 720</b>	29.97 fps	165 Mbps	110 Mbps	73 Mbps	51 Mbps	23 Mbps		50Mbps CBR		25Mbps HDV/MPEG2		18-30Mbs 25Mbs avg.
<b>1440 x 1080</b>	29.97 fps	283 Mbps	189 Mbps	126 Mbps	87 Mbps	38 Mbps	35Mbps VBR		50Mbps	25Mbps HDV/MPEG2	2.2Mbs	
<b>1920 x 1080</b>	29.97 fps	330 Mbps	220 Mbps	147 Mbps	102 Mbps	45 Mbps		50Mbps CBR	50Mbps	25Mbps HDV/MPEG2	3.8Mbs	18-30Mbs 25Mbs avg.

30 Min Program	<b>1 Mbs</b>	<b>5 Mbs</b>	<b>12 Mbs</b>	<b>18 Mbs</b>	<b>25 Mbs</b>	<b>30 Mbs</b>	<b>50 Mbs</b>	<b>75 Mbs</b>	<b>100 Mbs</b>	<b>150 Mbs</b>		
<b>File Size</b>	225 MB	1.1 GB	2.7 GB	4.0 GB	5.6 GB	6.8 GB	11.2 GB	16.8 GB	22.4 GB	33.6 GB		