

Compression Speed Tests - YouTube HD720 Default Setting

Type of File	File Size	Running Time	Codec	Image Size	21" iMac	Mac Pro	Mac Pro (Mult)	MacBook Pro	Compressor 4.1.2		Compressor 4.2 Mac Pro (Single instance)		Compressor 4.2 Mac Pro (Multiple instances)		Compressor 4.2 (iMac)		Compressor 4.2 (MacBook Pro)		File Name	
					<i>Set to 100% as the baseline for speed</i>	<i>Faster or slower than iMac (less than 100% is faster)</i>	<i>Faster or slower than iMac (less than 100% is faster)</i>	<i>Faster or slower than iMac (less than 100% is faster)</i>	<i>Time to compress with YouTube HD 720 default setting</i>	<i>File Size</i>	<i>Time to compress with YouTube HD 720 default setting</i>	<i>File Size</i>	<i>Time to compress with YouTube HD 720 default setting</i>	<i>File Size</i>	<i>Time to compress with YouTube HD 720 default setting</i>	<i>File Size</i>	<i>Time to compress with YouTube HD 720 default setting</i>	<i>File Size</i>		<i>Time to compress with YouTube HD 720 default setting</i>
QuickTime Movie	2.33 GB	8m 58s	XDCAM EX	1280 x 720	100.0%	631.9%	500.0%	80.1%	44m 4s	695.2 MB	20m 7s	678.9	15m 55s	686.7	3m 11s	682.6 MB	2m 33s	682.6 MB	2RG ep10	
QT Movie (SSD)	14.87 GB	4m 45s	ProRes 422 HQ	1920 x 1080	100.0%	187.1%	235.7%		23m 28s	362.8 MB	12m 4s	359.3 MB	15m 12s	355.3	6m 27s	362.9 MB			Tour	
QT Movie (2nd Drive)	14.87 GB	4m 45s	ProRes 422 HQ	1920 x 1080	100.0%			101.5%							7m 33s	362.9 MB	7m 40s	362.9 MB	Tour	
QuickTime Movie	46.83 GB	37m 35s	ProRes 4444	1280 x 720	100.0%	150.0%	210.5%	195.9%	24m 53s	944.1 MB	12m 6s	1.69 GB	16m 59s	877.3	8m 4s	1.49 GB	15m 48s	1.49 GB	Craft 01	
QuickTime Movie	79.07 GB	48m 5s	ProRes 422 HQ	1920 x 1080	100.0%	213.6%	156.8%	102.2%	n/a	n/a	1h 17m 19s	3.54 GB	56m 46s	3.62 GB	36m 12s	3.67 GB	36m 59s	3.67 GB	Interviews	
				<i>Average</i>	<i>100.0%</i>	<i>295.6%</i>	<i>275.8%</i>	<i>119.9%</i>												
NOTES																				
* All source files compressed to 1280 x 720, using the default YouTube HD720 setting. No changes or effects were added to this setting.																				
* Since not all source files were the same image size, all files were scaled to the same compressed image size of 1280 x 720																				
* By default, the YouTube settings create a QuickTime movie, using the H.264 codec with a 10,000 kbps data rate.																				
* Compressor 4.1.2 compression done on a Late 2013 27" iMac, 3.5 GHz Intel Core i7 with 32 GB of RAM																				
* New Mac Pro, 3.0 GHz 8 core Xeon, 32 GB RAM, AMD D700 GPU — all source files stored on the internal SSD drive																				
* Initial MacPro test run using default Compressor settings. Second MacPro test run by enabling 3 multiple instances of Compressor (the maximum number supported).																				
* Compressor 4.2 compression done on a Late 2013 21" iMac 3.1 GHz Intel Core i7 with 16 GB of RAM. Because the processor is 2.1% slower than the other iMac, a small portion of the differences in compression speed can be attributed to the CPU.																				
* No other tasks were running during these compression tests, except for Numbers (to record results) and iTunes Radio (to keep me awake.)																				
* The goal in this test was to compare compression speeds and resulting file sizes using common settings. Compression settings were not optimized to create the smallest possible files.																				