

Digital Tape Formats *				
Name	Compression	Data Rate (Mbps)	Bits Per Sample	Sampling Ratio
D1-SD (Sony)	Not Compressed	270	8	4:2:2
D2-SD (Sony/Ampex)	Not Compressed	143	8	4:2:2:4
D3-SD (Panasonic)	Not Compressed	143	8	4:0:0
D5-HD (Panasonic)	Compressed 5:1	270	10	4:2:2
D6-HD (Thomson)	Not Compressed	1500	8 (10 for Y Channel)	4:2:2
D7-SD	Intraframe 5:1	25	8	4:1:1
DVC Pro Panasonic, Phillips, Ikegami				
D9-SD	Intraframe 5:1	50	8	4:2:2
HD (Digital S JVC)	Intraframe 6.6:1	100	8	4:2:2
D10-SD	Intraframe 3.3:1	50	8	4:2:2
HDCAM SR (Sony)	Compressed 2.7:1; 4:1	440	10	4:2:2; 4:4:4
HDCAM (Sony)	Compressed 4.4:1	135	8	4:2:2
DVC PRO HD	Intraframe 6.7:1	100	8	4:2:2
Digital Betacam - SD (Sony)	2:1	90	10	4:2:2
MPEG IMX - SD (Sony)	Intraframe 3.3:1	50	8	4:2:2
DVC PRO 50 (Panasonic)	Intraframe 3.3:1	50	8	4:2:2
Betacam SX (Sony)	Intraframe 5:1	18	8	4:2:2
DV/HDV	Intraframe 5:1	25	8	4:1:1 NTSC; 4:2:0 PAL
Digital 8 (Sony, Hitachi)	Intraframe 5:1	25	8	4:1:1 NTSC; 4:2:0 PAL
DVCAM (Sony)	Intraframe 5:1	25	8	4:1:1 NTSC; 4:2:0 PAL

Storage Chart *						
Resolution	Frames Per Second	Bits Per Sample	Sample Rate	Storage Per Minute	Storage Per Hour	
4K (4096x3112) Film	24	10	4:4:4	102.57 GB	6.15 TB	
2K (2048 x 1536) Film	24	10	4:4:4	17 GB	1.02 TB	
1920 x 1080i HD	29.97	10	4:4:4	14 GB	840 GB	
1920 x 1080i HD	29.97	10	4:2:2	9.3 GB	560 GB	
1280 x 720P HD	59.94	10	4:2:2	8.3 GB	498 GB	
1920 x 1080P HD	23.976	10	4:2:2	7.4 GB	448 GB	
1920 x 1080i HD	29.97	8	4:2:2	7.3 GB	439 GB	
1280 x 720P HD	59.94	8	4:2:2	6.3 GB	376 GB	
1920 x 1080i Avid DNxHD 220	29.97	10 or 8	4:2:2	1.6 GB	100 GB	
1280 x 720P Avid DNxHD 220	59.94	10 or 8	4:2:2	1.6 GB	100 GB	
1920 x 1080P Avid DNxHD 220	23.976	10 or 8	4:2:2	1.3 GB	79 GB	
1920 x 1080i HD Avid DNxHD 145	29.97	8	4:2:2	0.93 GB	56 GB	
720 x 486 SD 1:1	29.97	10	4:2:2	1.5 GB	91 GB	
720 x 486 SD 1:1	29.97	8	4:2:2	1.2 GB	72 GB	
Avid 2:1	29.97	8	4:2:2	660 MB	39.6 GB	
Avid 3:1	29.97	8	4:2:2	400 MB	24 GB	
Avid 2:1s	29.97	8	4:2:2	300 MB	18 GB	
Avid 4:1s	29.97	8	4:2:2	150 MB	9 GB	
Avid 10:1	29.97	8	4:2:2	120 MB	7.4 GB	
Avid 20:1	29.97	8	4:2:2	75 MB	4.5 GB	
Avid 15:1s	29.97	8	4:2:2	40 MB	2.4 GB	
Sony IMX MPEG2	29.97	8	4:2:0	375 MB	22.5 GB	
HDV	29.97	8	4:1:1	187 MB	11.25 GB	
DV 50	29.97	8	4:2:2	375 MB	22.5 GB	
DV 25	29.97	8	4:1:1	187.6 MB	11.25 GB	
48.1 Khz Audio	8 Tracks	16		46.1 MB	2.8 GB	
96 Khz Audio	8 Tracks	24		138 MB		

\* All data rates and storage data are approximations based on industry standards  
 Use these charts as a quick reference guide only. Your results may vary.  
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