COMPARISON of HARD DISK RECORDING, and 24-TRACK 2" ANALOG TAPE RECORDING

HARD DRIVE SIZE	HARD DRIVE COST	COST PER GB	STEREO	STEREO	24 TACK RECORDING	24-TRACK TAPE	TAPE COST	TAPE-TO
GIGABYTES	DOLLARS	DOLLARS	MINUTES	HOURS	— in hour-long CDs	REELS REQUIRED	DOLLARS	HARD DRIVE
(GB)			~ 10.5 MB / MIN		1 REEL ~ 1.581 GB	same capacity	at $200 per reel	price ratio : 1
June 2002:								
40	$60	1.50	3778	63	5	21	$4,197	70
60	$80	1.33	5666	94	8	31	$6,296	79
80	$90	1.13	7555	126	10	42	$8,395	93
120	$120	1.00	11333	189	16	63	$12,592	105
January 2006:								
300	$130	0.43	28332	472	39	157	$31,480	242
November 2007:								
320	$66	0.21	30221	504	42	168	$33,578	509
500	$90	0.18	47220	787	66	262	$52,466	583
10.59	MB / minute, stereo recording*				M = 1,000,000	1 megabyte = 1,024,000 bytes		
5.29	MB / minute, mono recording				G = 1,000,000,000	1 gigabyte = 1,024,000,000 bytes		
127.07	MB / minute 24 track recording				B = byte	1 byte = 8 bits (0 or 1 on-off logic states)		
0.1271	GB / minute 24 track recording					1 digital mono recording 16-bit sample = two bytes		
1.9060	approx GB per 24 track reel at 30 in/s in 44.1 kHz, 16 bit recording							
May 2009:								
1000	$90	0.09	94439	1574	131	525	$104,933	1166

*10.584130 MB of data requires hard disk space of 10.588160 MB
because hard disk sectors are defined at a specific size and are
used by the computer as "cells" to store data, allowing partially filled cells.

Western Digital Caviar Green WD10EADS Hard Drive
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