

HDD Space Calculator for TVI DVRs

You can calculate the size of hard disk according to the storage time and AHD Hybrid DVR recording settings. The formula is as follows in full frame rate condition. Used space per hour (MB/h) = Bitrate (kbps) ÷ 8 × 3600 ÷ 1024. The below are the details at different settings.

Resolution	Frame Rate Totally(FPS)	Video Quality	Bit Rate (kbps)	Used Space (MB/h)
WD1	25(PAL)/ 30(NTSC)	Highest	2.5M	1125
		Higher	2M	900
		Medium	1.75M	788
		Low	1.5M	675
		Lower	1M	450
		Lowest	768	338

Resolution	Frame Rate	Record Bitrate (kbps)	Used Space(MB/h)
720P	15 (NTSC)/ 12(PAL)	6144	1350
		5120	1125
		4096	900
		3072	675
		2048	450
		1024	225

Resolution	Frame Rate	Record Bit Rate (kbps)	Used Space(MB/h)
1080P	15fps (NTSC)/ 12(PLA)	12M	2700
		10M	2250
		8M	1800
		6M	1350
		4M	900
		2M	450

The calculation format is:

Total Recording capacity = Used space per hour (MB/h) (coverage rate of hard disk) × recording time (hour) × channel numbers

For instance, one customer sets resolution to 720P, frame rate to 15fps, bitrate to 4M and enables total 4 channels. He wants the unit to record continuously in a month.

Below is the calculation:

Total Recording capacity = 225 (mb/h) × 24(hours/day) × 30(days) × 4 (channels) = 648000 (MB) ≈ 633(GB)

Therefore, customers need to install 1 SATA HDD with 1 TB to record for one month.