

Appendix B Calculate Recording Capacity

Users can calculate the required size of hard disk according to the total recording duration and DVR recording settings. The DVR uses fixed video bit rate. The below are the details at different settings for CBR.

Resolution	Frame Rate Totally(FPS)	Video Quality	Bit Rate (kbps)	Used Space(MB/h)
720P	25(PAL)/ 30(NTSC)	Highest	6144	2700
		Higher	5420	2250
		Medium	4096	1800
		Low	3072	1350
		Lower	2048	900
		Lowest	1024	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 uses NTSC cameras, set resolution to 720P, video quality to Lowest, frame rate to 30 fps for enabling total 4 channels. He wants the unit to record continuously in a month. Below is the calculation:

Total Recording capacity =450 (mb/h) X 24(hours/day) X30(days) X4(channels)= 1296000 (MB)≈1266(GB)

Therefore, you need to install one 2 TB SATA HDDs for recording in one month.