

Behind the Lens: How Surveillance Systems Increasingly Depend on HDDs

Surveillance systems are becoming increasingly common in businesses, schools, and other public places. These systems increasingly rely on hard disk drives (HDDs) to store the vast amounts of data that they generate.

Almost 80 Exabytes of Surveillance HDDs were shipped in 2022.¹

Surveillance businesses choose HDDs as their storage solution due to unique benefits only HDDs can offer :

- **Capacity:** HDDs, like our 22TB MG10 Series, offers the highest capacity of any other storage technology, making them ideal for storing large video files. Surveillance systems can generate terabytes of data per day, so it is important to have a storage solution that can keep up with the demand.
- **Performance:** HDDs can deliver high performance for both sequential and random access workloads, making them ideal for a variety of surveillance applications, such as live viewing, playback, and searching.
- **Reliability:** HDDs are more reliable, with a mean time to failure (MTTF) of up to 2.5 million hours. This makes them a safe and secure choice for storing valuable surveillance footage.
- **Cost-effectiveness:** HDDs have a lower Total Cost of Ownership (TCO), making them a cost-effective solution for the surveillance business.
- **Scalability:** HDDs are also scalable and flexible, making them easy to adapt to the changing needs of the surveillance industry. As the industry continues to grow and evolve, HDDs will continue to play an essential role in storing and managing surveillance data.
- HDDs are resistant to vibration and shock, making them ideal for use in harsh environments.
- HDDs are relatively easy to install and maintain.
- HDDs are available in a variety of sizes and capacities to meet the needs of different surveillance applications.

Surveillance HDD Exabytes will double by 2027 to around 190 Exabytes. It would require over 47.5 million of Toshiba's most popular S300 4TB Surveillance HDDs to store all of that content.¹

HDD uses in Surveillance today:

- Live viewing: HDDs are used to store and stream live video footage from surveillance cameras. This allows security personnel to monitor activity in real time and respond to incidents quickly.
- Playback: HDDs are used to store and playback recorded video footage. This allows security personnel to review footage for investigative purposes or to identify suspects.
- Searching: Search functionality for specific events or objects is possible because recorded video footage is stored in HDDs . This can be helpful for identifying suspects or for finding evidence of a crime.

As an essential part of the surveillance business, HDDs provide the large capacity, high performance, reliability, and cost-effectiveness that is needed to store and manage large amounts of surveillance data in today's digital world. HDDs is the logical choice for storage in the surveillance business.

¹IDC Worldwide Hard Disk Drive 2022-2027 Forecast #USXXXXX