

3 Types of Mobile Video Data Storage for Your Fleet

Data storage has come a long way since the first hard drives and floppy disks were invented. The first hard drives held about 5 megabytes of storage, while the first floppy disks could hold about 1.2 megabytes of space on each disk. While that used to be considered a lot of space, neither of these devices would be able to hold one photo from your smartphone today. Decades later, data storage devices now can hold more than 2 terabytes, or about 2 million megabytes.

Text and program files were much smaller during the early days of the computer, and as audio and video have been digitized and the sound quality and resolutions have improved, so has the size of the files.

There are three options for video data storage, each with their pros and cons. Your fleet size and the number of hours you need to record per week will determine which option is best for you.

Hard Disk Drive (HDD)

Stores and retrieves data using magnetic storage and one or more rapidly rotating disks, similar to how a vinyl record player works. HDDs can hold the most amount of data, but since they are mechanical, there are moving parts and aren't very shock resistant.

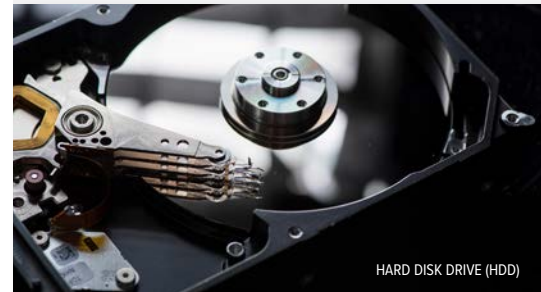
Solid-State Drive (SSD)

Nonmechanical device that stores and retrieves information on flash memory, which consists of individual memory cells. These are the most expensive type of data storage, but their read and write speeds are blazingly fast compared to the other two options. Featuring no moving parts, SSDs work well in high-stress areas, like a moving vehicle.

SD Card

Short for Secure Digital card, a removable memory card that acts like a solid-state drive but is much smaller. This option has the slowest reading and writing speeds of the bunch, but it also features the lowest cost overall and might be your best option if you don't want to incur data transfer fees or upload over a Wi-Fi network.

continued



HARD DISK DRIVE (HDD)



SOLID-STATE DRIVE (SSD)



SD CARD



Which mobile video data storage option is best for you?

Weigh the pros and cons of each device and determine which is best for your fleet. You most likely would want to avoid HDDs for your fleet, since the harsh environment could damage the device. SSDs are shock resistant but cost more upfront, and SD cards are removable, making it easy to transfer data from a DVR to a local computer.

About Pro-Vision

Founded in 2003, Pro-Vision is a leading video technology solutions provider trusted by thousands of organizations in 58 countries. Pro-Vision solutions include vehicle video recording systems, body-worn cameras, data management and cloud-based storage solutions. Pro-Vision's transit, law enforcement and commercial partners utilize these solutions to enhance safety, increase productivity and protect critical assets.



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