

# High Performance Enterprise Storage Solution for Video Surveillance

An industry on the precipice of a major digital transformation



## The Challenge

- Today's high-definition cameras generate 10x the data of previous generations
- Surveillance has emerged as the #1 data generator in today's enterprise
- Network Video Recorders are unable to handle the high duty cycle and extreme data rates, causing failures and lost data
- NVRs drive excessive operational workload and risk, limiting the capabilities of the overall system

## The Solution

- Centralize on purpose-built, performance-led storage
- OpenDrives enterprise storage is designed specifically for high-throughput, low-latency applications

## Future proof storage

Digital video surveillance is undergoing a revolution. Advances in AI and machine learning are helping companies leverage technology as a force multiplier in improving their security posture.

As surveillance moves beyond security-only applications into intelligent video, you need a platform that can deliver data to analytics engines instantaneously, regardless of the existing camera input workloads.

## What does performance mean?

Being able to handle pixel storms from a high number of concurrent high-definition feeds without skipping a beat. Serving up data to analytics engines or security personnel instantly on demand.

## Reliability means never having to say you're sorry

Murphy's Law of surveillance dictates that the most critical content or frames are the ones that are most likely to be lost or corrupted. With hyper-reliability and self-healing storage, you never have to worry about retrieving critical video. It will be there.

**Without the right storage, you risk compromising your company's security posture**



# Video Surveillance Storage



Storage Pools simplify management, allow multi-tenancy, and enable sharing with other applications

Optimized for fast video ingest, adaptive internal block size up to 1 MB drives performance and storage efficiency

Internal storage tiering simplifies storage management

Comprehensive reporting and alerting made simple

Single namespace as an option to facilitate growth without effort or complexity

Low latency helps AI-based analytics to run at full speed, with no waiting

## Robust & Performant Storage

In the early 2000s the first movie production that was shot in 6k resolution created similar challenges for the entertainment industry.

The “high performance” storage that was used for storing and managing video content was unable to serve the raw footage to the editing teams fast enough to meet schedules.

After enduring the frustration of waiting for video clips and segments, it became obvious that a different type of storage was necessary – OpenDrives was founded on solving this problem.

OpenDrives is a different class of storage. It is designed, from the bottom-up, to deliver high-throughput, low latency content.

Video surveillance workloads involve hundreds of 4k, 8k or higher video feeds into a group of servers. The data that hits the storage system can be very “bursty” and at very high data rates, depending on the level of activity at the site.

Without the right storage, frame rates, retention, and camera counts are often limited, compromising the quality of an organization’s security posture.