

## Solution Benefits

- Guaranteed frame capture
- Storage specifically tuned for surveillance security systems
- Drive caching algorithms tuned for write-intensive, low bit rate, high stream count applications typical of surveillance applications
- Priority change for write allocations and preemptive caching policies
- TLER & ATA streaming support
- Supports 24/7 high-definition surveillance environments that use up to 32 cameras
- ATTO's Advanced Data Streaming delivers smooth, reliable data transfers and the highest consistent performance
- Connectivity for LTO-6 tape archiving
- ATTO's WriteStop ensures video evidence is secure by disabling writing at the disk level while retaining read-only capability

## Related Products

- ATTO ExpressSAS 6Gb Host Bus Adapters
- WD Purple Surveillance Storage

## About ATTO Technology

ATTO Technology is a global leader of storage connectivity and infrastructure solutions for data-intensive computing environments. ATTO provides solutions that help customers store, manage and deliver data more efficiently. Visit [www.attotech.com](http://www.attotech.com) for more information.

## About Western Digital

Founded in 1970, Western Digital Corp. (NASDAQ: WDC), Irvine, Calif., is an industry-leading developer and manufacturer of storage solutions that enable people to create, manage, experience and preserve digital content. Its HGST and WD® subsidiaries are long-time innovators in the storage industry. Western Digital Corporation is responding to changing market needs by providing a full portfolio of compelling, high-quality storage products with effective technology deployment, high efficiency, flexibility and speed. Our products are marketed under the HGST, WD and G-Technology™ brands to OEMs, distributors, resellers, cloud infrastructure providers and consumers.



# ATTO

# ATTO Technology and Western Digital

## Challenge

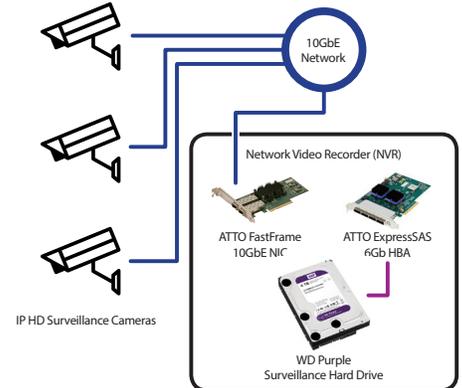
Video surveillance options for SMBs are becoming increasingly sophisticated, with some installations now incorporating dozens of high-definition cameras. With this evolution comes a need for hardware that is custom-designed to meet the specific needs of surveillance applications. In addition to supporting multiple high resolution video streams, the solution must provide consistent Quality of Service and reliable, 24/7 always-on performance.

While a typical desktop hard drive can function in a surveillance environment, it wasn't purpose-built for that application. Desktop drives, which are designed to operate for only short intervals, are not engineered to endure the temperature fluctuations and equipment vibrations typical in surveillance environments. Furthermore, the drive's firmware needs to be optimized for the large write operations required for continuous video recording.

## WD Purple Surveillance Storage

WD Purple surveillance-class drives are designed for 24/7 high-definition surveillance environments that use up to 32 cameras. With firmware optimized for the ATA streaming Command Set, a specification providing features aimed at video payloads, they reduce the error pixilation and video interruptions that can occur when regular desktop storage is used in security systems. WD Purple drives additionally use caching algorithms tuned for write-intensive, high stream count applications. The end result? Reduced risk of data corruption in a surveillance application where each video frame can count as crucial evidence.

WD Purple drives are rated for higher temperatures and non-stop operation. In addition, the company's exclusive IntelliSeek™ technology calculates optimum seek speeds, which lowers power consumption as well as the noise and vibration that can cause drives to wear out more quickly. WD Purple drives have also been tested to be compatible with a wide-range of security systems.



## ATTO ExpressSAS 6Gb SAS/SATA HBAs

ATTO Technology has a 25-plus year history developing high-bandwidth, low-latency network and connectivity solutions for the professional video industry. The same technology advantages that we bring to the broadcast TV and post-production markets are relevant to security and surveillance.

ATTO ExpressSAS HBAs are engineered for random write performance to deliver maximum bandwidth for multiple simultaneous video streams. They also feature Advanced Data Streaming (ADS), a proprietary technology that maximizes CPU processes to deliver smooth and reliable data transfers and the highest consistent performance. That translates to guaranteed camera writes, with all incoming video data available for later review and analysis.

The need for higher stream density and resolution in the surveillance industry has been accompanied by an increased need to retain video data, and in some cases archive it to meet compliance requirements. Video forensics applications also present the need for write-once capability so that "chain of custody" can be established in legal situations. ATTO ExpressSAS HBAs provide connectivity for LTO-6 tape archiving and can also be configured with WriteStop, a unique feature developed specifically for the forensics industry that ensures video evidence is secure by disabling writing at the disk level while retaining read-only capability.