



**Power Real-Time Threat Detection at Scale with the DDN AI400X2, the AI Data Platform Proven at Any Scale**



**A<sup>3</sup>I Turnkey appliance**, fully optimized for maximum AI application performance, proven at the largest scale.

**Predictable** performance, capacity, capability.

**Shared parallel architecture** maximizes infrastructure performance, streamlines workflows, eliminates data management overhead, scales limitlessly.

**Feature-rich** data management and security.

**Advanced capabilities** ideal for multi node and hyperscale AI infrastructure deployments with analytics.

# AI Powered Video Security

- ▶ The modern urban environment leverages video cameras at unprecedented scale with over a billion in use since 2020. The application of Deep learning is the best way to turn raw video data into insights that can drive a stronger security paradigm. DDN provides the data platforms for GPU-based training and inference to enable the highest scales of real time video analysis.

The shift from analog to digital media means that security analysts and law enforcement officers face the problem of having too much data to analyze. AI powered video analytics make the collection, classification, organization, and identification within these assets easier for smaller teams of analysts. Teams can reduce response times to events and improve security since manually monitoring for these events is not always possible, especially over large or dispersed areas

Existing IT systems are not designed to handle the performance and scale that is required to develop and operate fast, efficient, and agile AI-powered security applications. Data silos, slow processing, and capacity restrictions limit the ability to create comprehensive solutions that effectively address the complexity, speed, frequency, and size of modern threats.

## MODERNIZING LARGE SCALE SECURITY INFRASTRUCTURE

DDN uniquely address these requirements with a scale-out file platform that supports higher degrees of parallelism to accelerate applications and simplify data management. No other solution delivers the performance and capacity needed for training, testing and deployment of very large-scale AI-backed security applications.

Breakthroughs in object recognition, natural language processing, automated analysis, reasoning, and robotics are coming from better access to data. However, achieving an effective level accuracy for production operation will require enormous volumes of data supplying supercomputing level processing resources. DDN simplifies this process by ensuring that the data is managed, available, secure and that processing resources are free of bottlenecks.

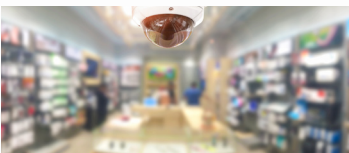
## ACHIEVE EFFECTIVE SECURITY WITH AI

AI technologies are critically important for enhancing cyber and physical security for military and civilian applications. Amplify and extend the capabilities of your security mission by increasing access to vital data. Don't let infrastructure constraints prevent you from quickly ingesting, cost effectively storing, and processing threat data in real-time. DDN supplies the technology, expertise and experience in dealing with these challenges to ensure that your security applications are effective today and well prepared for the future.

## A<sup>3</sup>I Advantages



Up to 5x improvement in algorithm development speeds.



Scaling storage IO performance linearly or near-linearly as Kx servers are added.



Shared access to large volumes of data over multiple, internal teams.



Eliminate data silos and simplify data management infrastructure.

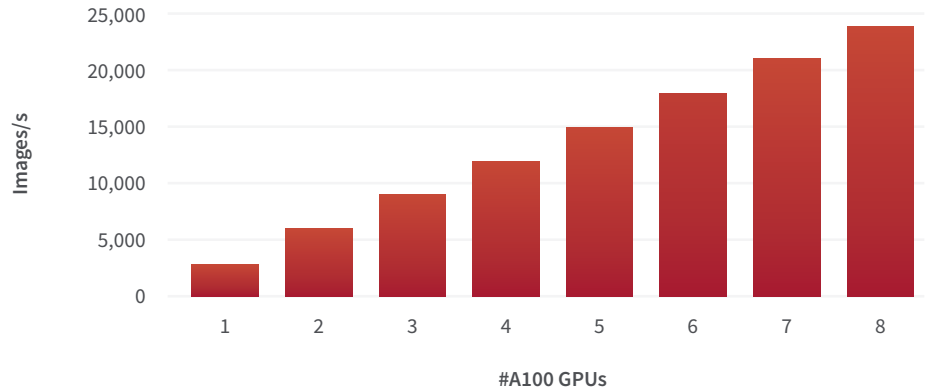


Minimizing datacenter footprint and TCO and eliminating siloed infrastructure.

## ACCELERATE THREAT DETECTION

With DDN, researchers and AI applications can now perform analysis against much larger datasets and quickly deliver more effective models to production. DDN's A<sup>3</sup>I Solutions, including the DDN AI400X2 are proven to scale linearly with real image analysis AI applications alongside NVIDIA GPU Solutions.

MLPerf Resnet 50 with DDN AI400X2



## DDN A<sup>3</sup>I STORAGE SOLUTIONS

DDN A<sup>3</sup>I storage solutions are fully optimized to accelerate machine learning and artificial intelligence (AI) applications, streamlining deep learning (DL) workflows for greater productivity. Working with industry leaders like NVIDIA, A<sup>3</sup>I artificial intelligence storage solutions harness the knowledge from customer-proven deployments to make AI-powered innovation easy. A<sup>3</sup>I is a turnkey, AI data storage infrastructure for rapid deployment, featuring faster performance, effortless scale, and simplified operations through deeper integration—all backed by the data-at-scale experts.

### ABOUT DDN

DataDirect Networks (DDN) is the world's leading big data storage supplier to data-intensive, global organizations. DDN has designed, developed, deployed, and optimized systems, software, and solutions that enable enterprises, service providers, research facilities, and government agencies to generate more value and to accelerate time to insight from their data and information, on premise and in the cloud.

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