

## Video Search and Summarization

### Unlock insights from Vision and Large Language Models

Manufacturing organizations face a significant challenge in monitoring their operations. Identifying equipment problems, gathering statistics from an assembly line, and ensuring product quality often require specialized devices or labor-intensive manual processes. Retrofitting an entire factory with modern monitoring equipment can be cost-prohibitive, leaving valuable operational insights undiscovered.

With vision and large language models, organizations can transform their existing infrastructure into a powerful tool for operational intelligence. By analyzing video streams from standard cameras, this technology helps you identify anomalies, recommend resolutions, and provide detailed statistics for your entire factory. This approach empowers your teams to make data-driven decisions without the need for expensive new hardware.

### Accelerate Operational Efficiency with Video AI

Vision and large language models make video analysis more accessible and scalable. These models enable processing of vast amounts of media, whether from live streams or stored files, turning raw footage into actionable insights. This capability improves efficiency, reduces errors, and strengthens quality control across your operations, all while leveraging your current infrastructure.

### Intelligent Video Analysis Use Cases



#### Anomaly Detection and Resolution

Use AI to automatically detect operational issues, such as incorrect product spacing or defects, and receive recommendations for immediate resolution.



#### Assembly Line Statistics

Capture detailed metrics from your production lines, including unit counts, cycle times, and equipment status to drive performance.



#### Quality Control Automation

Automate visual inspection processes to identify product defects or inconsistencies, improving accuracy and freeing up personnel for more critical tasks.



#### Safety and Compliance Monitoring

Monitor factory floors to ensure adherence to safety protocols and identify potential hazards before they lead to incidents.

### How it works

Organizations can carry out a powerful video analysis solution to enhance operational oversight and efficiency. This ensures that you can quickly identify and address issues, leading to improved productivity and quality. To do this, organizations should:



#### Integrate Video Sources

from storage to the analysis platform.



#### Process and Analyze

video into and use vision and language models to analyze the content.



#### Generate Insights by

creating summaries, identifying key events, and answering natural language questions about the video content.



#### Review and Act

using the generated dashboards and reports to monitor operations, investigate anomalies, and carry out process improvements.



## Turning Video Into Actionable Insights

A modern vision and language model pipeline powers video search and summarization, delivering scalable, actionable results through an integrated technology stack:

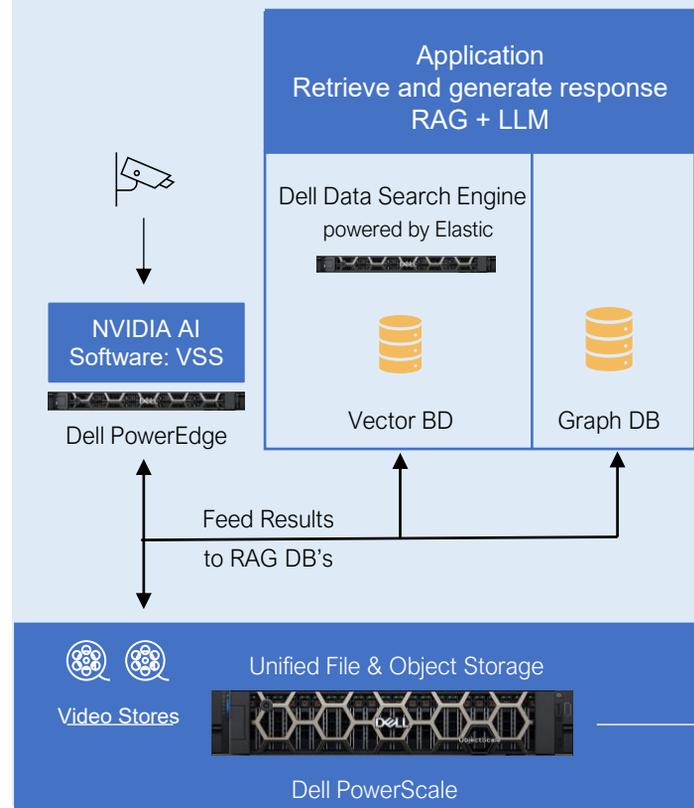
**Cameras and Data Sources:** Provides the raw input, supporting both live RTSP streams and archived media.

**VSS Ingestion Pipeline:** Audio and video are chunked into segments, which are then processed using advanced vision-language models for real-time or batch analysis.

**Vision and Language Models:** Used to interpret video content, surface anomalies, generate event summaries, and enable natural language querying of video events.

**Database Layers:** Using the Dell Data Search Engine for search and retrieval, with support for knowledge graphs to provide greater context and relationships between events.

**User Talk & APIs:** A web-based dashboard and RESTful APIs let users search, ask questions, and access real-time summaries of monitored operations.



## Accelerate Enterprise AI with Dell and NVIDIA

The Dell AI Data Platform with NVIDIA, delivers a purpose-built, AI-optimized infrastructure that accelerates innovation and simplifies enterprise AI adoption.

Combining Dell's modular, scalable data engines, high-performance storage, and NVIDIA's industry-leading GPU acceleration, this platform provides unmatched performance, seamless integration, and enterprise-grade security. Couple with Dell Blueprints providing pre-validated architectures that streamline deployment and optimize AI workflows; enterprises can unlock value from all their data, securely and cost-effectively, without the pain of DIY.

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