



Harness the Value of Complex, Industrial Imagery and Video Data with Kespry Perception Analytics

Throughout the industrial world, companies require regular inspections of key assets to maximize health and performance across their operations. Visual sensors including cameras, drones and thermal guns provide critical insights into asset conditions and efficiency.

However, reliability and maintenance teams waste valuable time organizing and searching through inaccessible, unaggregated and difficult-to-parse visual sensor data located across multiple users and systems. This makes it difficult to proactively detect issues such as leaks and corrosion, leading to a chain reaction: response teams become reactive to work orders based on limited data, causing costly shut-down procedures to further investigate speculated issues.

Kespry Perception Analytics is perfectly positioned to help asset-intensive companies streamline these inspection processes by creating a geotagged, historical repository for visual data. This enables teams to easily analyze multiple sources of data across assets, track trends over time, and be proactive when issues start to arise.



Kespry Perception Analytics enables companies to:



Better-manage visual sensor data with seamless ingest and upload workflows

Consolidate and streamline visual sensor data, from any device or cloud storage, into a single, searchable data source



Enrich visual sensor data with a knowledge graph to track issues with assets

Unlock the potential of visual data by auto-indexing the entire library by assets, their location, type, and time of issues identified, and with links to relevant enterprise data



Analyze issues effectively with intuitive search and map-based results that aggregates visual and related asset data intuitively

Better predict corrosion and equipment malfunctions, and prevent tank and pipe leaks, with alerts of auto-detected changes in temperature, pressure and vibrations using indexed visual sensor data

Ingest

Indexes different formats of data (images, video, thermal, OGI, etc.) from multiple sources.

Enrich

Via a knowledge graph and ML models to provide requisite context of the physical world.

Analyze

Provides search and analytic capabilities to query data intuitively, infer relationships and predict patterns.

Reliability team workflow:

Maintenance team workflow:

INGEST

Reference a single database for all visual sensor data collected throughout facilities

Improve readiness with centrally accessible data

ENRICH

Rely on purpose-built AI and ML algorithms to automatically transform visual sensor data into indexed and searchable data

Decrease time spent combining visual sensor data with maintenance records

ANALYZE

Work in a code-free, search-based environment to quickly locate assets based on their geospatial context, historical information and business uses

Use automatic alerts to quickly identify and correct detected issues before costly repairs or disasters occur

Summary

Kespry Perception Analytics solves one of the most significant, yet demanding problems in the industrial world today: *proactively and efficiently analyzing key insights from terabytes of visual data captured daily; and correlating the requisite operational data to identify and resolve issues.* Finally, companies can use their visual data for intelligent, business-impacting analysis with purpose-built AI and ML.

