

AGIL® VISION



Searchable Video Intelligence

AGIL® Vision is a suite of video analytics solutions that harnesses the use of latest innovation and technologies in ST Engineering to solve real-world challenges. By leveraging Generative AI, AGIL® Vision revolutionises the analysis of video streams and significantly improves search capability in video content retrieval.

Complex queries that previously required multiple rules can now be done through natural language used in day-to-day conversation. This allows users to search large volumes of video content effectively with more precise descriptions within a shorter turnaround time. The ease of using natural language to query content enables users to specify a wider range of use cases and enhances their overall experiences.

Plug-and-Play with Data Privacy

AGIL® Vision optimises machine learning models and integrates them into a single box solution. The All-in-One box solution allows users to plug-and-play with minimum setup effort.

The box can be set up on-premise, avoiding the need to send data externally and significantly enhances data privacy safeguards.

Key Applications

- Complex, descriptive search
- Real-time alerts
- Investigation
- Regulatory enforcement

Key Features

- Plug-and-play
- Able to work offline
- Data privacy
- Optimised search without meta tags
- Real-time alerts
- High fault tolerance
- High adaptability

Operational Concept

AGIL[®] Vision is ready for deployment and supports a myriad of use cases across all industries. It empowers users to be more productive and achieve operational insights under accelerated time. Depending on the use cases and situation, it can act as the (i) primary search tool to address non-specific, non-anticipated challenges, or (ii) the secondary search tool to generate more insights to specific challenges.

Generative Artificial Intelligence (AI)

Generative AI for text-to-image retrieval involves creating a semantic mapping between textual descriptions and visual representations. The deep learning model learns to associate different elements of the text, such as objects, scenes, and attributes, with corresponding visual features in the images. This association allows the model to understand the underlying meaning of text and retrieves images that align with the provided descriptions.

Customised, Trained with Large Open-Source Data

The model was trained by leveraging large open-source dataset. An appropriate generative model architecture with suitable objective functions was selected and fine-tuned to measure similarity between text and image so that we can effectively learn the semantic connections between textual descriptions and image content.

Performance

Can be deployed on-premise or on-cloud, with organic cyber-secured architecture.

Technical Specifications

Technology	Generative Artificial Technology
Mechanical	<ul style="list-style-type: none">• Aluminum housing• 156 x 204 x 230 mm• ~6 kg
Environmental Specs	<ul style="list-style-type: none">• Operating Temperature: 0 - 40°C with 0.7 m/s air flow• Relative Humidity: 95% @ 40°C (non-condensing)• Vibration during Operation: 3 Gms, IEC 60068-2-64, 5-500Hz, 1 hr/axis• Shock during Operation: 30G, IEC 60068-2-27, half sine, 11ms duration• EMC: CE/FCC Class B, CCC, BSMI• Safety: CB, UL, CCC, BSMI
Product Warranty	<ul style="list-style-type: none">• A comprehensive warranty programme and extensive options available

www.stengg.com

digitalsystems@stengg.com

© 2023 (ST Engineering Advanced Networks & Sensors Pte Ltd). All rights reserved.

DOP (0923)



<https://www.stengg.com/en/digital-tech/data-science-analytics-and-ai/video-analytics/>