viisights FAQ

General

1. **What is the difference between behavioral recognition vs. regular video analytics?**
   Behavioral Recognition video analytics systems are systems that not only capable to detect and alert on objects and their basic attributes but alert on the objects behavior (i.e., actions) and interaction between objects (i.e., events). More information can be found in this blog post Behavioral Recognition Sets a New Benchmark for Video Analytics

2. **What is the difference between video understanding technology vs. image recognition technology?**
   Video understanding technology is the technology behind viisights behavioral recognition video analytics – while image recognition technology focus on analyzing a single image and mostly focused on detecting its objects the video understanding technology is analyzing a sequence of images, in real-time video stream the analysis is done in a moving sliding winddown, connected through time, the analysis is focused on recognizing the objects behavior and their context, in addition to the ability to the detect various objects and their attributes.

3. **What products are currently available**? - viisights wise is available to the market. viisights true is available but the company has decided not focus the sales team on it. viisights in-cabin experiencer is in concept development phase.

4. **What is viisights IQ**? – viisights IQ also known as "on-site learning" is a new technology that will be added to wise and future products for eliminating false alert and have them close to Zero. You can read about it more here: viisights Debuts viisights IQ™ Video Analytics Auto-Learning Technology at ISC West 2023

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Wise Product Features:

1. *What differentiate viisights WISE from other video analytics products?*

Wise is the only video analytics system that is built on video understanding technology that uses behavioral-recognition capabilities for proactive real-time alerting. More information can be found here.

2. *What types of events of interests and applications included in the wise offering.* Wise capabilities are grouped into the following applications: violence prediction and detection, suspicious activity, crowd-behavior, perimeter protection, traffic-monitoring, personal and environment safety and public-health capabilities.

3. *Does WISE detect only behaviors?*

In addition to the behavior recognition capabilities of various objects (person, vehicle), Wise detects objects and their various properties. Properties are handled as behavioral capacities of the object (i.e., person carry a weapon, person wearing a hat). Wise is also capable to scan the environment for anomalies, mostly used to alert on environment hazards.

4. *How many behaviors are available on Wise?*

There are over 40 different types of alarms that can be set.

5. *Can Wise alert on variety of Violence scenarios?*

Yes, there are several alarm types, such as “People Fighting”, “Person with Weapon” “Person throwing an Object” and more. each alarm type (i.e., behavioral class) is train on the most common scenarios of that behavior. Complete wise feature catalog can be found here.

6. *Can Wise alert on variety Environment and Safety events?*

Yes, there are several alarm types, such as “Fire/Smoke”, “Person lying/falls on the ground” “Environment Hazard” and more. Complete wise feature catalog can be found here.

7. *Can Wise alert on variety suspicious behaviors?*

Yes, there are several alarm types, such as “Loitering”, “Person with/without mask” “Person

abandoned an object", "Person running" and more. Complete wise feature catalog can be found here.

8. Does wise differentiate between an alarm and a detection?

Yes, wise allows a time threshold to define the length of each detection before sending an alarm, reducing the FAR significantly. In the future wise will introduce a rule engine that will allow to create logic between different detection before sending alarms.

Wise Hardware and System Architecture:

9. What is the wise supported hardware configuration?

WISE software is running on off-the shelf servers leveraging on Nvidia GPU technology. Viisights provides a detailed description of the type of servers that could run Wise flawlessly – for more information click here.

10. What are the hardware requirements for my Wise solution?

The recommended hardware depends on a few variables, mainly on the amount of concurrent video streams video to process, for more information contact our support team at info@viisights.com .

11. What is the typical Wise HW footprint

An off the shelf server that includes two Nvidia RTX-A4500 GPU, can process 40 concurrent live streams. The average cost of such server is $6,700 (USD) – therefore the monthly hardware cost per stream) consideration the server depreciation is36 months) is: $6,700/36/40 = $4.65 USD/Stream/Month.

12. Can I test out Wise if I do not have any available hardware?

Viisights has a cloud demo service environment available on demand, feel free to contact the sales team at info@viisights.com to schedule a demo session.

13. What are the graphical processing unit (GPU) requirements for the Wise solution?

Wise processing server requires an NVIDIA GPU card. The exact model and amount of GPU cards required will depend on the amount of relevant video streams and overall solution architecture.

14. *Does Wise support redundancy or high availability?*

    Yes, Wise application can be deployed on multiple servers and leveraging load balancing capability to allows redundancy.

15. *Does Wise support a cluster architecture with multiple remote processing locations?*

    Yes, as long as all the server locations are connected in a same subnet

16. *Does Wise support a cloud-based architecture?*

    Yes, Wise can be deployed in a cloud environment like: AWZ, Azure and others.

17. *Does Wise support a virtual architecture?*

    Yes, as long as the VM has total access to all available HW resources – GPU, CPU, RAM and storage.

18. *Does Wise support an on-premises architecture?*

    Yes, Wise supports an on-premises architecture.

Wise Technical and Operational details

1. *What are the different technologies used within the Wise?*

   WISE leverages on Nvidia Deepstream framework, and deploys using Docker technology, relational database, REDIS message broker and more.

2. *Is Wise GDPR compliant?*

   Yes. Privacy friendly – refer to wise T&C.

3. *What operating systems does Wise require?*

   Wise is installed on an Ubuntu OS; we recommend to install it on Ubuntu version 20.04 LTS. For the latest version supported us at info@viisights.com

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4. *How do users access Wise?*

   Wise is a web-based app and can be used by any supported browser – we recommend using Chrome browser.

5. *What kind of user roles are supported?*

   Wise supports User, Manager and Admin roles types. Each has its own permission set.

6. *Can Wise offer API access?*

   Yes, Wise utilizes a REST API interface., including over 29 different API calls

7. *What is the average recall rate and false-positive rate?*

   The actual recall and false positive rates depend on many factors: the position of the cameras, outdoor/in-door, size of the objects, the number of objects, the amount of light, weather conditions, occlusions and more. Our standard quality process that is measured by our ground-truth dataset aim to release feature that has 90%-95% recall rate for objects and 80%-85% percent for behaviors. The goal of false positive rate in crowded environment is 1-3 false alerts per camera per 24 hours, when viisights IQ technology be added to Wise the false positive rate target will be lower than 1 false positive per camera per 24 hours.

8. *With which Video Management Systems – VMS can Wise integrate with?*

   Wise is fully integrated with multiple VMS systems, including:

   - Milestone
   - Genetec
   - QVMS
   - Ocularis
   - FLIR
   - Cognyte
   - Eagle Eye

9. *With which Physical security information management - PSIM system can Wise integrate with?*

   Wise has an open API that support push or pull technology for sending/retrieving its alarms and can be implemented by any PISM or C&C that allows 3rd party integration. The development of such integration layer is being done in many cases by our system-integrator.

Here is a practical list of the integration plug-ins viisights has developed and include in the product.

- MER SmartM
- Motorola compass
- Cognify Situator
- Octopus

10. *What types of video cameras supported by wise –* fixed and PYZ video surveillance cameras, fish-eye aren't supported. coverage in 30^{O}.to 60^{O} angle and height between 2.5 meters to 4 meters.

11. *What is the recommended camera image resolution that Wise processes?*

    Wise recommended camera image input resolution between HD (720p) to Full HD (1080p), and between 20 to 30 FPS. Object size will be at least 10% from the frame. In HD cameras it is 50 PPM (Pixel Per Meter).

12. *What video codecs does Wise support?*

    Wise supports processing H.264, H.265/HEVC codecs.

13. *What video formats does Wise support?*

    Wise supports processing .MPEG4, .H264, .H265, .TS, .MP4 video formats.

14. *What are the recommended frames per second (FPS) that Wise processes?*

    Wise FPS camera input should range from 20 to 30 FPS.

15. *What is Wise SLA*

    Wise SLA for System Integrators and Value-Added Distributers can be found here.

Wise Business Model & Go-To Market:

1. *How does Viisights license the Wise app:*

   Viisights provides licensing per each concurrent camera/stream set on the Wise app.

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2. *How does Viisights license multi-sensor cameras?*

   Viisights provides licensing per each camera/stream, e.g., if a camera has 4 sensors and if each sensor has its own RTSP stream then 4 licenses are issued.

3. *How Can I buy wise licenses?*

   Contact our sales team at info@viisights.com

4. *How can I become a reseller or distributer?*

   Viisights our partners web-page and fill your details.

5. *Who are the typical end-users for Wise.*

   Wise is mostly designed for enterprises, organizations and authorities, it less fit for home use. We mostly target safe and smart cities, enterprises, campuses, banks, financial institutions, critical infrastructures, transportation hubs and industrial/manufacturing facilities.