OPENSIGHT-mc
Mission Console

FLYSIGHT

FlySight and Aitech Systems Unveil a new Integration, Empowering Real-Time ATR (Augmented Target Recognition) Capabilities for Operational excellence and strategic advantage

FlySight and Aitech Systems have collaborated to enhance real-time artificial intelligence capabilities for Augmented Target Recognition operations, aiming for operational excellence and strategic superiority. This integration combines FlySight's OPENSIGHT with Aitech's A179 Lightning, a rugged AI supercomputer, to significantly boost surveillance and operational intelligence functionalities.

Aitech

Watch the video

Congratulations to the entire team for seamlessly completing the integration process. This revolutionary solution boosts AI capabilities, making it easier for humans and machines to work together effectively. It's been a fascinating journey, and we're excited about the future and possibilities of this solution.

Dan Mor, Director of Products & Solutions
Aitech Defense Systems, Inc

Finally, a ready-to-deploy off-the-shelf product emerges onto the global market, revolutionizing real-time surveillance, battlefield intelligence, and operational functionality. This groundbreaking solution empowers AI capabilities, fostering seamless integration and enhancing the synergy between human operators and machine intelligence.

Andrea Masini, CEO
FlySight Srl

Advanced Integration: Elevating Capabilities

OPENSIGHT, coupled with A179 Lightning enhancement, acts as a sophisticated remote ATR sensor, capable of acquiring real-time video data from diverse sources.

It can seamlessly switch the inference from a local HD-SDI to multiple local or remote STANAG 4609 streams, adapting to various operational scenarios with ease.

Open Architecture

Through the exploitation of OPENSIGHT's AI-enabled open architecture, users can conduct real-time processing of video sources, utilizing a diverse selection of pre-configured and customizable neural networks.

This framework offers unmatched flexibility, facilitating effortless integration of third-party or proprietary AI Networks into their systems.

This capability is made possible by the open architecture approach, which optimizes the advanced functionalities of the TensorRT inference engine while ensuring extensive compatibility through adherence to the ONNX standard.

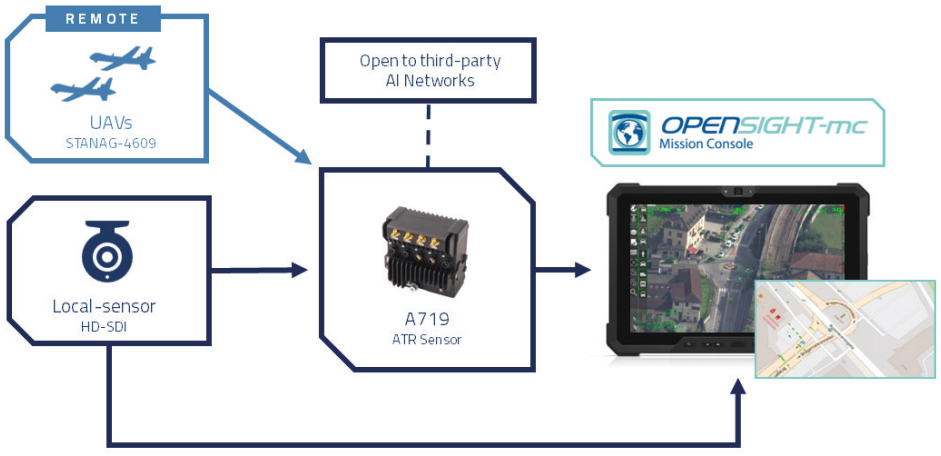
Operational Flexibility and Standards Compliance

In response to dynamic operational demands, OPENSIGHT enables users to dynamically select different runtime networks and swiftly add them to the system.

Moreover, the ATR module ensures compliance with MISB ST-0903 (VMTI), seamlessly integrated into STANAG 4609 streams, enhancing interoperability and compatibility with legacy systems.

Mission Control: Enhanced Situational Awareness Display

The output received is displayed in the OPENSIGHT Mission Console, providing operators with both video and mapped georeferenced detections. This ensures a comprehensive operational picture for informed decision-making.



About FlySight

FlySight provides solutions for design and development of state-of-the-art C4ISR systems (Command, Control, Computer, Communication for Intelligence Surveillance and Reconnaissance). The solutions proposed are based on AI (Artificial Intelligence) approaches exploiting the latest cognitive signal processing and adaptive data fusion algorithms. Our applications are researched and targeted for avionics, naval and underwater sectors, providing geospatial situational awareness both for the on-ground and the on-board segments.

Real time PED (Processing Exploitation and Dissemination) is allowed by the integration of our products in already existing architectures thanks to the interoperability of our systems with STANAG and OGC (Open Geospatial Consortium) standards.

Moreover, the adoption of Deep Learning methodologies coupled to Augmented Reality enables the definition of disruptive ISTAR (Intelligence Surveillance Target Acquisition and Reconnaissance) system.

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About Aitech Systems

Aitech provides industry-standard, open architecture VMEbus, VPX and high-speed serial fabric-based computers and subsystems. Applications for our products include mission computers and autonomous robotic subsystems for ground vehicles, surface and subsurface naval platforms, and fixed- and rotary-winged manned and unmanned aircraft.

Aitech engineers and manufactures rugged, open-architecture based embedded systems for use in defense,aerospace and space flight applications. By investing heavily in our people and infrastructure, we ensure that our customers have the integrated technology platforms that will meet the industry's evolving computing requirements. As a pioneer in the field of computing technologies, Aitech provides embedded systems for the harshest, most unforgiving operating environments across the globe. The goal of every innovation the company has delivered over the past three decades is to secure a better tomorrow.

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