



From Sensor to Insight Aerospace Applications

Odysight^{AI} is a global leader providing innovative micro-visualization solutions based on small and highly resistant sensors, multilayer analytics and cloud based IoT for effective diagnostic and predictive maintenance of critical systems health monitoring.

Our Technology

Industry4.0 optimize operational time and overall efficiency, prevent malfunctions and reduce unplanned downtime. Odysight^{AI} innovative solution provides high-resolution visualization, advanced AI analytics, tightly packaged to fit hard to reach places and withstand harsh environmental conditions. Odysight^{AI}'s Technology enabling decisions support for critical faults and anomaly detection based on AI/ML, creating the base of condition-based monitoring and predictive maintenance.

Sensing

- High resolution sensors with integrated illumination
- Predefined set of cameras managed as COTS products
- Comply with majority set of applications
- Customer flexibility - build to spec



Processing

- Modular & open system architecture
- High Performance Embedded AI computing
- COTS solutions - technology & roadmap
- Low SWaP and cost- effective
- Certifiable



Applications

- Failure modes analysis - know how
- Multiple failure detection applications
- Generic anomaly detection capability
- Big data trend analysis & fleet management
- Advanced failures Simulation & digital twin models



Key Benefits & Features

- Extremely small visualization technology (down to 1mm) operating in extreme temperatures and other harsh environmental conditions
- Robust in significantly high vibration environments
- Proven radiation durability
- Integrated methods that combine process, climate and cost insights
- Long lightweight cable structures, designed for long distance signal transmission
- Integral illumination (F.O or L.E.D) for high-quality imaging
- Audio and video options along with high-end video processors for high-quality live-streaming

Proven successes in outer-space

Odysight^{AI}'s micro 8.0 HD in NASA's 3rd generation Robotic Refueling Mission (RRM3), officially used in-orbit in 2020, proven as highly resilient also in working for four consecutive days and in harsh environment.



Faster
root-cause
analysis



Minimize
downtime



Reduced
costs



Avoid
unnecessary
maintenance



Know-how