



**OPENSIGHT-mc**  
Mission Console



## FlySight Integrates OPENSIGHT with AXNES PNG Wireless Intercom to Enhance Mission Coordination and Safety

In a continuous development for surveillance and special operations, FlySight and Axnes proudly announce the successful integration of its OPENSIGHT Mission Console with the PNG Wireless Intercom (WICS) by AXNES. This integration marks a significant step forward in operational coordination and safety for teams in demanding environments.



The integration allows for seamless communication and GPS data transfer between FlySight OPENSIGHT Mission Console and crewmembers that are equipped with the Axnes MP30 or MP50 handheld transceiver.

By interfacing the Axnes PNG WICS with FlySight OPENSIGHT Mission Console, situational awareness and mission safety are greatly increased. It allows the operator on board the aircraft to see where crewmembers are on the ground while at the same time providing clear, handsfree full duplex communication with them, as the Axnes PNG is the Wireless InterCom System extension to the wired intercom loop.

Through the integration with FlySight's OPENSIGHT Mission Console, the Advanced MP30 or MP50 PNG Tranceiver capabilities are significantly enhanced. This integration allows for seamless communication and data exchange between the AXNES PNG handset transceiver equipped team members and the mission control console aboard the helicopter or at the ground control station.

### How it works

The OPENSIGHT Mission Console seamlessly integrates with Axnes' base station the Base Station 50, which receives GPS information from the MP30 or MP50 PNG Transceivers and sends it to the OPENSIGHT Mission Console using the NMEA standard or Axnes' proprietary format. It then processes this information, allowing it to be directly displayed on the operator's screen onboard. This allows operators to see where their crewmembers are on the ground, while at the same time having the opportunity to communicate clearly with them. OPENSIGHT leverages the onboard Axnes kit to provide information in an augmented reality environment, enabling an optimal Geospatial Situational Awareness on onboard tactical displays.

### Key Benefits

- **Enhanced Surveillance Operations:** Teams can coordinate more effectively, with the ability to receive crucial Augmented Reality information directly through the OPENSIGHT Mission Console.
- **Improved Team Coordination:** The integration facilitates a higher level of situational awareness and operational coordination, essential for the success of surveillance missions and control team operations.
- **Increased Safety and Efficiency:** The ability to exchange position data and other critical information in real-time ensures that teams can operate more safely and respond more quickly to evolving situations.

# PNG WICS

The Axnes PNG Wireless Intercom System (WICS) provides unparalleled audio clarity, enabling seamless communication between aircrew, ground personnel, and other search and rescue teams. The system's intuitive interface and real-time, full-duplex, handsfree, VOX operated handheld, increases situational awareness, facilitates swift decision-making, enhancing mission success and ensuring the safety of all involved.

## Features

- Unparalleled Noise Cancelling
- GPS positioning of crew members
- Remote Radio Keying allows communication on any on-board radio from the Axnes Handheld Transceivers.
- Full duplex capability
- Increased Mission Safety through clear communication
- UHF 397-470MHz and Maritime FM VHF 156-162 MHz
- Supports multiple wireless users and grouping of users
- Operational temperature -20° to +55°C
- AES 256 standard
- Qualified according DO-160G
- Qualified according to DO-178C
- BST50 & CP50 Delivered with EASA Form 1



*The PNG Mission Wireless Intercom allows operators to keep communicating on the intercom at all times. It doesn't matter if they are in the cabin or outside, a couple of kilometers away from the aircraft. In addition to being a wireless intercom the PNG WICS can transfer data to the FlySight OPENSIGHT Mission Console allowing operators to see their crew members, as well as maintaining communication. We are excited to announce a successful integration with FlySight OPENSIGHT Mission Console as it greatly increased mission safety, something we at Axnes regard as paramount to any helicopter operation*

**Klaus Frühwirth, Chief Marketing Officer  
Axnes**

# OPENSIGHT

OPENSIGHT Mission Console is specifically designed to support payload operators in airborne scenarios, with the aim to conduct the mission more smoothly and efficiently.

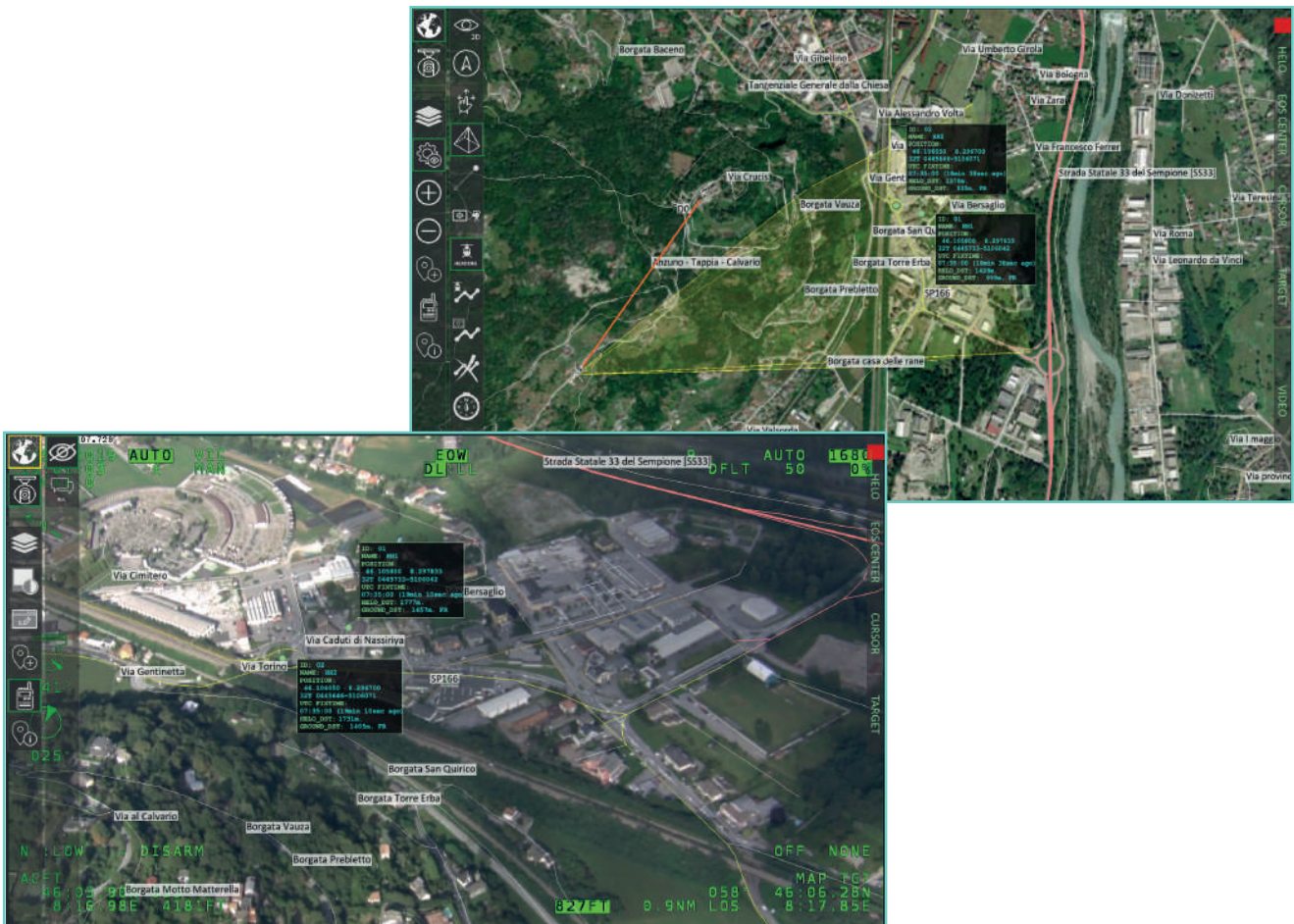
An Augmented Reality engine, capable of handling multiple high resolution video flows, improves the geospatial situational awareness of the operator by the superposition of multiple synthetic information layers.

No need to switch to the moving map anymore: all the information is displayed directly over the video for a better mission effectiveness.

## Features

- Video processing algorithms for image enhancement (equalization, expansion, saturation, dehazing, fog suppression, super resolution)
- Augmented Reality engine for real-time vector overlay superimposition (works with custom user data)
- 3D Moving map with multiple layers support and real-time video-over-map projection
- Geodatabase functionality for direct and inverse geocoding
- Full touchscreen HMI for quick and effective interaction with the operator
- Automatic target detection and classification (Artificial Intelligence networks specialized for maritime and airborne threats)

Taking integration to the next level, the OPENSIGHT Mission Console is exceptionally agile and quick to integrate into any mission system. This is made possible through the Open Code provided to OPENSIGHT Software Development Kit (OPENSIGHT-sdk) users. The Open Code, a unique template crafted by FlySight developers, optimizes the implementation of OPENSIGHT-mc. It not only enhances usability but also unlocks the full potential of OPENSIGHT for the entire user community. Users can effortlessly build upon the established solution, customizing, updating, and enhancing capabilities with ease and speed.





## About Axnes

Axnes, AS develops and supplies advanced and highly durable wireless intercom solutions for use under harsh conditions for aerospace and defense applications. Today more than 2,400 aircraft worldwide are equipped with Axnes' wireless technology. Axnes was founded in 1995 and is a privately-owned company headquartered in Norway with offices in the United Kingdom, Austria, and the United States of America, and worldwide distribution through its partner network. The company has been supplying its wireless intercom systems for two decades and is an EASA Part 21 and Part 145 approved quality organization. Our team is driven by the belief that producing and developing the most advanced and versatile wireless intercom system contributes to saving lives in demanding operational environments.

[www.axnes.com](http://www.axnes.com) | [kjf@axnes.com](mailto:kjf@axnes.com)



## 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.

[www.flysight.it](http://www.flysight.it) | [marketing@flysight.it](mailto:marketing@flysight.it)